DEPARTMENT OF PSYCHIATRY AND HUMAN BEHAVIOR
Alpert Medical School of Brown University
Providence, Rhode Island 02912 USA
dphb@brown.edu

Research Opportunities for Residents 2018/19
### Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome from the Chair</td>
<td>2</td>
</tr>
<tr>
<td>Welcome from the Director of Research Training for the Residency</td>
<td>3</td>
</tr>
<tr>
<td>Brown University</td>
<td>4</td>
</tr>
<tr>
<td>Department of Psychiatry and Human Behavior Research</td>
<td>4</td>
</tr>
<tr>
<td>Research Opportunities for Residents at Brown</td>
<td>13</td>
</tr>
<tr>
<td>Recognized Areas of Department of Psychiatry and Human Behavior Research Excellence</td>
<td>16</td>
</tr>
<tr>
<td>Sampling of Department of Psychiatry and Human Behavior Research Funding</td>
<td>17</td>
</tr>
<tr>
<td>Resident Bios</td>
<td>24</td>
</tr>
<tr>
<td>Biographical Sketches of Selected Research Faculty</td>
<td>26</td>
</tr>
<tr>
<td>Websites for Additional Information</td>
<td>54</td>
</tr>
</tbody>
</table>
Welcome from the Chair

Over the next four years, you will begin to define your professional identity as a psychiatrist. You will have the privilege of listening to others’ innermost thoughts and the responsibility of helping your patients transform those thoughts into hope and recovery. You will realize what you have come to understand is only the beginning. You will learn that your patients have much to teach you about yourselves. You will struggle with how to balance the complexity of your own lives with those of your patients, and you will learn how to put your own thoughts and feelings aside in order to better understand the thoughts and feelings of others. You will come to know how much we have learned as a field and yet how little we know. You will be challenged by having to learn a bewildering array of therapeutic modalities and by having to integrate them into a therapeutic plan that is unique for every individual you treat. You will learn from the faculty, your supervisors, your peers, and most of all, from your patients. You will be witness to inspiring recoveries and sobering tragedies. In sum, the next four years will leave an indelible stamp on who you are and who you will become, as a professional and as an individual. It is our hope that you will decide to share these defining years with us.

Why Brown? We are committed to collaboratively crafting a unique educational plan with every incoming resident. There has never been a more exciting time to begin a psychiatric residency. The Department of Psychiatry and Human Behavior (DPHB) at Brown is at the cutting edge of advances in our basic understanding of brain function. These advances are leading to the development of new, more effective treatments for the major neuropsychiatric disorders. Fundamental progress in our understanding of the neural underpinnings of cognition and emotion will lead to a synthesis of how psychological and pharmacologic treatments work. As the second largest department in the medical school, with over 130 full time academic faculty and 270 clinical faculty, as well as a department with $55 million in funding this year, the DPHB is well positioned for the future. Our R-25 (NIMH funded) training grant provides residents who are interested in pursuing research careers to work alongside some of the best basic and clinical research scientists in the country during their residency. The recent $100 million dollar gift to establish the Carney Institute for Brain Science will promote an interdisciplinary environment that will engage our faculty and residents at the cutting edge of new research developments. With a wide diversity of patients and training sites, the Brown residency will provide you with a training experience that also allows you to determine what you are truly passionate about in this field. It is the drive to integrate scientific discovery with compassionate care that defines our purpose. In keeping with that mission, we are looking for applicants who are striving to leave the world a better place than they found it.
Welcome from the Director of Research Training for the Residency

The Department of Psychiatry and Human Behavior provides outstanding research training opportunities for our psychiatry residents. Our department has remarkable breadth and depth of research areas of interest and expertise, and is considered one of the most outstanding academic psychiatry departments in the country. Our superb faculty are conducting cutting-edge work on the causes, mechanisms, and novel treatments for a range of psychiatric conditions. We are known for our collaborative spirit, accessibility, and dedication to launching successful research careers. Our department has an R25 grant funded by the National Institute of Mental Health that offers a rigorous and supportive Research Training Program, with substantial protected research time for selected residents. We are one of a small number of departments in the country with this training grant for psychiatry residents, attesting to the excellence of our faculty and our residents.

There is a shortage of physician-scientists in psychiatry that threatens our ability to translate exciting advances in basic and translational neuroscience into improvements in patient care. Residency is a critical time to engage and nurture research interests. Residents with a Ph.D. need to maintain their interest in research, stay abreast of advances in their field, and further develop their research skills. Those with more limited prior experience need to develop their research interest, foundational knowledge, and skills during residency.

Research is exciting – it involves generating new knowledge, exploring unanswered questions, and moving the field forward. Intellectually, research is very rewarding as it engages your curiosity about patients and science, develops critical thinking, analytic, and writing skills, and involves working with mentors and colleagues on important and challenging problems that aim to improve the care and well-being of our patients. Our goal is to lay the foundation for a successful independent research career through mentored research opportunities and trainings, while ensuring that research is a valuable and rewarding part of your training.

Our department has many outstanding researchers and mentors with whom residents can train. Residents who are interested in pursuing basic science or translational research may also work with excellent faculty in other departments at Brown such as the Department of Neuroscience, the Department of Cognitive, Linguistic, and Psychological Sciences, the Department of Pediatrics, and the Department of Molecular Biology, Cell Biology, and Biochemistry.

There are also excellent opportunities for residents who are interested in research experiences outside of the research track. Research experiences are tailored to each person, so they fit your needs and enhance your training experience. Getting involved with research as a resident will also offer valuable experience, skills, and insight even if you decide to pursue other types of careers.

Please note, although there is no separate application or match number for our Research Training Program, we encourage applicants to describe their interest in pursuing research as a resident in their application package. All applicants use the same application, and
residents formally apply for the research track during the PG-1 year. We offer two research-focused interview days as part of our interview schedule for those who are interested in our research track.

If you have any questions about research opportunities at Brown, please email me at audrey_tyrka@brown.edu. If you come to Brown University for your residency, I look forward to meeting with you to discuss research opportunities in our department and to develop an exciting and rewarding research experience for you.

Brown University

Brown University was established in 1764 as the seventh college in America, and today it is an independent, co-educational, Ivy League institution of higher learning devoted to the liberal arts and professional training. The University consists of undergraduate and graduate programs plus the Alpert Medical School, School of Public Health, School of Engineering, and School of Professional Studies. The Medical School has affiliation agreements with local hospitals. Brown's vibrant, diverse community consists of about 6,320 undergraduates, 2,230 graduate students, 523 medical school students, more than 5,000 summer, visiting, and online students, and over 700 faculty members. Brown students come from all 50 states and more than 115 countries. The undergraduates pursue bachelor's degrees in more than 70 concentrations and Brown has 51 doctoral programs and 31 master's programs. The University is committed to developing and supporting major, cutting-edge research programs, providing effective infrastructure for research and development, supporting administration of research projects, and encouraging dissemination of research results.

Department of Psychiatry and Human Behavior (DPHB)

The Brown Department of Psychiatry and Human Behavior has a long record of outstanding research training and excellence. With more than 130 full-time academic faculty members and $55 million in externally sponsored research, a wealth of opportunities is available through our extraordinary cutting-edge programs in clinical, basic, and translational research. The development and testing of novel treatments (psychosocial, pharmacotherapy, and device-based including neuromodulation approaches) is a particular strength, as is research on the biological bases of behavior and psychopathology. Adult psychopathology research includes investigation of mood disorders, suicide, post-traumatic stress disorder and anxiety disorders, personality disorders, substance use disorders, women's mental health, and other domains and disorders. Behavioral Medicine research ranges from biological investigations to public health concerns and includes such areas as the psychological effects of physical activity, addictions, cancer prevention, and cardiovascular risk. Our Department also conducts laboratory studies in basic neuroscience in such areas as Alzheimer's disease and the genetic and molecular mechanisms underlying autism, PTSD, and depression. Ongoing developmental studies include basic behavioral research and research on risk and vulnerability, including biological predispositions and environmental factors. Psychosocial aspects of physical illness, such as asthma and obesity, are other areas of strength. Examples of active translational research collaborations include novel structural and functional neuroimaging methods and innovative cognitive neuroscience techniques including computational neurocircuit modeling of reward expectancy, MRI myelin/pathway imaging, and autism genetics.

Many of our faculty are nationally and internationally recognized leaders in their field. Indices of our Department's success include more than 230 current externally funded grants and more than $55 million in annual grant support awarded to more than 100 faculty members. Grants are funded by external sources such as the National Institute of Mental Health (NIMH), National Institute of Child Health and Human Development (NICHD), National Institute on Drug Abuse (NIDA), National Institute of Alcohol Abuse and Alcoholism (NIAAA), National Cancer Institute (NCI), and the National Alliance for Research on Schizophrenia and Depression (NARSAD).

The commitment to research training in the Department of Psychiatry and Human Behavior is longstanding.
and well-developed. Senior research faculty are deeply committed to teaching, encouraging, and supporting junior faculty members and research fellows, so that the important scientific work conducted by these departments continues to flourish. The residency, psychology training programs, and postdoctoral fellowships are highly sought after nationwide, receiving many more applications than slots available. Our Department has approximately 50 postdoctoral psychology fellows who are involved in research. Mentorship is a very significant component of the Department’s academic mission.

Faculty and trainees at Brown are highly collaborative with one another and with members of other departments and centers. Our Department participates in joint research and clinical training programs with other medical school departments including Neurology, Neurosurgery, Family Medicine, Medicine, Pediatrics, and Community Health as well as the campus-based Departments of Neuroscience; Cognitive, Linguistic, and Psychological Sciences; Molecular Biology, Cell Biology, and Biochemistry; Engineering; Pharmacology; and Biotechnology. One of the great strengths of our Department is that collaborative work is fostered not only across disciplines but also between clinicians and researchers.

The Department of Psychiatry and Human Behavior Residency Training Program

Our Department's General Psychiatry Training Program oversees and administers our research-focused residency track. The General Psychiatry Training Program trains 38 residents over 4 PG years. The faculty creates a challenging but supportive academic environment in which residents identify their individual interests and skills. This individualized approach is coupled with a wide range of clinical and intellectual opportunities. The rich training at Brown prepares residents to be skilled clinicians, experienced educators, and successful researchers. Graduates provide compassionate, high quality and scientifically informed psychiatric care to their patients and serve as role models for other professionals.

Our residency program is highly competitive and sought after nationwide and has a national reputation for excellence. More than one-half of U.S. medical school applicants to psychiatry training programs apply to our program. Residents from our outstanding triple board (general psychiatry, child psychiatry, and pediatrics) residency join the general psychiatry residents for substantial portions of their training. This collaboration and cross-fertilization enriches the learning environment for our research-focused residents.

The Division of Child and Adolescent Psychiatry

Our Child and Adolescent Psychiatry division is nationally recognized as one of the top programs in the country in terms of breadth and depth of clinical, training and research activities. More than 120 faculty have full time positions in the clinical, teaching and research academic tracks. Funded research projects totaling more than $12 million annually focus on psychiatric disorders in youth (such as bipolar disorder, OCD, autism, PTSD, substance use), genetics, sleep, brain mechanisms of psychopathology, psychological reactions to illness, health disparities, and illness/risk prevention programs for children, adolescents and families. Our training programs focus on the development of clinical scientists and they offer a unique integration of unparalleled clinical settings, a deep commitment to the integrated treatment of the psychological, behavioral, and somatic manifestations of mental illness, an enormously productive research program, and a culture of warmth and collegiality.

The Division has a child and adolescent psychiatry (CAP) fellowship with 10 fellows that includes two research pathways. The Integrated Research Track occurs within the two-year CAP fellowship and allows 20% protected research time during the first year of training and up to 60% in the second year of training. In the Intensive Research Track, fellows participate in one of Brown’s several NIH T32 Research Training Programs so that the CAP fellowship and formal research training is extended by an additional year (to three years). The first year contains 20% time for research and the subsequent two years are half-time research. Our graduates are highly sought-after and go on to leadership positions in education and research.
Our Commitment to Diversity
There is a pressing need for institutions to diversify their student body and faculty to increase participation of individuals underrepresented in the biomedical, clinical, behavioral, and social sciences. The Brown psychiatry residency, the Department of Psychiatry and Human Behavior, the Medical School, and Brown University embrace the perspective that enhancing diversity enriches the educational experience for all trainees, students, and faculty. Interaction among individuals from diverse experiences, histories, and backgrounds sharpens debate and promotes intellectual excellence. In research and science, homogeneity of thought and perspective stifles innovation, whereas diversity fosters new ideas and innovative solutions. We are strongly committed to recruiting applicants from underrepresented racial and ethnic groups and ensuring a welcoming and encouraging training environment for a wide spectrum of residents, including those with disabilities.

Brown Medical School Diversity Recruitment and Retention
Brown University has committed to transforming its diversity policies, structures, and practices. Brown’s commitment to diversity is highlighted in the strategic plan, “Building on Distinction,” and a detailed action plan for realizing this commitment was articulated in “Pathways to Diversity and Inclusion: An Action Plan for Brown University, 2017.” This Diversity and Inclusion Action Plan outlines a set of concrete, achievable actions to make Brown a more fully diverse and inclusive community. These substantial investments in diversity are needed to make the Brown medical and psychiatric community an academic home where residents from under-represented groups will want to train in psychiatry and research. In the last year, Brown has taken major steps to effect this change as follows and the Brown Office of Diversity and Multicultural Affairs, including Assistant Dean for Diversity Tracey Guthrie, M.D., have developed and strengthened initiatives to increase the pool of diverse applicants for our Research Training Program.

Department of Psychiatry and Human Behavior Diversity Committee
This committee assists in recruiting and supporting trainees and faculty from diverse backgrounds or with diversity-related research interests, and promoting cultural competence in training and research. The committee sponsors core seminars to integrate diversity-related topics in seminars throughout the Department of Psychiatry and Human Behavior, and provides training opportunities on diversity-related topics. The committee has also developed two specific initiatives focused on 1) mentoring trainees and 2) providing continuing education opportunities for faculty. The committee launched a diversity mentoring program in 2010 to facilitate networking and career development among trainees and faculty in our Department and to offer trainees and faculty opportunities to discuss clinical, research, and professional issues relevant to diversity in a supportive collegial environment. Drs. Tyrka and Guthrie are mentors in this program. A competitive departmental research award of $10,000 is awarded to a trainee or junior faculty person from an underrepresented or disadvantaged background, and the Diversity Committee has a formal initiative to match talented minority investigators with funded researchers to facilitate the submission of Diversity Supplements to the National Institutes of Health. Recently, one of our research track residents was awarded the research funding award. The Diversity Committee also launched a Faculty Cultural Competence Initiative to ensure that our faculty receive additional opportunities to enhance their cultural competence with respect to teaching, supervision, and research responsibilities. Presentations are given to highlight discussions of race, ethnicity and differences in cultural identities in teaching, supervision, clinical work and research. This program has partnered with us to enhance diversity in our residency training program and the research training program.

Department of Psychiatry and Behavior Women in Psychology Steering Committee
In 2010, this committee was launched as a vehicle for discussion of issues relating to gender and careers in academic medicine. Leadership consists of a committee of sixteen faculty and six trainees. This steering committee and the Diversity Committee are in regular communication and co-sponsor and coordinate joint events that are open to faculty, residents, and other trainees in our Department. Last year’s events included, “Speak Up, Simmer Down: Gender, Language, and Mentorship,” and “Planning for Parental Leave: What you Didn’t Know You Needed to Know.”

Summer Fellowship for Medical Students from Underrepresented Groups
This year we received supplemental funding for our NIMH-supported R25 research training grant to develop a summer fellowship for two first year medical students from underrepresented minority groups. This program provided an excellent opportunity for medical students from diverse backgrounds to experience psychiatry and research training early in medical school to increase interest, training, and opportunities in research. The long-term goal is to expand the diversity of National Institute of Mental Health’s research workforce.
Department of Psychiatry and Human Behavior Research Infrastructure

The research infrastructure of the Department of Psychiatry and Human Behavior is designed to facilitate the development and continued success of a structured and comprehensive program of research throughout all components of the Department. This includes ready consultation on all aspects of research design and methods for faculty and trainees in the Department. Support from the following research cores and programs is available to residents.

Quantitative Science Program (QSP)

The QSP provides formal workshops, seminars, and individual mentoring in the areas of quantitative methodology. Topic areas include research and experimental design, survey and sampling methods, and basic and advanced multivariate data analysis. The QSP actively collaborates with on-going and proposed research at Brown and across the nation, and conducts independent and methodologically-focused research projects. The QSP is supported by research projects, and by the Department of Psychiatry and Human Behavior, Department of Neurology, and the Norman Prince Neurosciences Institute of Rhode Island Hospital.

Qualitative Science and Methods Training Program (QSMTP)

Integration of qualitative and quantitative methods (“mixed methods”) is increasingly expected in successful patient-oriented research applications to the NIH and other sponsors. The QSMTP provides state-of-the-science training and mentoring in qualitative research methods to postdoctoral and faculty investigators in the health sciences. QSMTP offerings include: (1) a didactic fundamentals seminar, (2) weekly qualitative skills-building workshops, and (3) expert consultation for qualitative and mixed methods grant-writing and publication research.

Implementation Science Core (ISC)

The Implementation Science Core collaborates with other Cores to foster the translation, spread, and scale-up of evidence-based practices into routine clinical care. A. Rani Elwy, Ph.D., Director of the Implementation Science Core, hosts regular office hours each week to work with faculty and research fellows to: 1) provide consultation on dissemination and implementation (D&I) science models, theories and frameworks to guide studies, and, 2) develop qualitative and quantitative methods specific to D&I science research questions (such as formative evaluations, stakeholder engagement methods, implementation strategies, hybrid designs, etc.). Dr. Elwy runs three different educational sessions: 1) a six-week introduction to D&I science series, held each semester; 2) a monthly lunch-and-learn session on timely topics in D&I science; and 3) a day-long intermediate level workshop on D&I science, once per semester.

Butler Neuromodulation Research Core (BNRF)

A 2013 Brown Institute for Brain Sciences (now the Carney Institute for Brain Science) equipment grant initiated the formation of a noninvasive brain stimulation core resource for Brown-affiliated researchers. BIBS supported start-up of laboratories in two locations: (1) in the Metcalf Building on Brown's main campus, where healthy control subjects can be studied with low-risk protocols, and (2) at Butler Hospital, 2 miles from main campus, where infrastructure and expertise were already in place for studies involving clinical populations and higher-risk protocols. Psychiatrist Linda Carpenter, M.D., Chief of the Mood Disorders Program, is the BNRF Director, and the Department of Psychiatry and Human Behavior contributes support for BNRF infrastructure. The BNRF is dedicated to facilitating Brown-affiliated researchers' access to, and safe use of, noninvasive brain stimulation technologies (including TMS, tDCS/tACS), tools for precision brain targeting and noninvasive physiologic monitoring.

Molecular Medicine Laboratory

This laboratory is located at the Providence VA Medical Center and has over $5M in instrumentation designed to meet the needs of investigators interested in including genetics, epigenetics, gene expression or ELISA-based protein assays in their research. Dr. McGeary provides molecular data analysis to over 70 current projects at Brown and collaborating institutions. In addition to providing the required molecular data, the lab provides support for grant preparation, data integration, and manuscript writing for trainees who are interested in adding molecular measures to their research.

The Rhode Island Consortium for Autism Research and Treatment (RI-CART)

RI-CART is a collaborative research community designed to support projects related to autism and developmental disabilities. Since April 2013, RI-CART has enrolled 1600 individuals, ranging in age from 2 to 69 years, with Autism Spectrum Disorders into a patient registry. Enrollment is ongoing at a rate of roughly 20 new participants per month. Assuming a 1% prevalence rate for autism, RI-CART has enrolled roughly 25% of potential Rhode Island cases aged 3 to 21 years. The RI-CART registry is supported by a grant from the Simons Foundation Autism Research Initiative. Participants have provided consent to be re-contacted...
for future research, and RI-CART has successfully supported research being conducted by trainees, including T32 fellows.

**Research Training Grants in the Department of Psychiatry and Human Behavior**

The Department of Psychiatry and Human Behavior is a national leader in predoctoral and postdoctoral research training. Our Department administers 5 federally funded post-doctoral T32 research training grants – an unusually large number – which attests to the excellence of our research training environment. Our psychiatry research track residents benefit from the wealth of research opportunities and excellent didactics supported by our T32 programs. Current research training grants include: T32 Research Training in Child Mental Health (NIMH), T32 Training in Child/Adolescent Biobehavioral HIV Research (NIMH), T32 Substance Abuse Intervention Outcome Research Training (NIDA), T32 Alcohol Abuse Treatment Research (NIAAA), and T32 Training in Behavioral and Preventive Medicine (NHLBI).

**Interdisciplinary Collaborations**

Much of the research done at Brown is interdisciplinary, involving strong collaborations between psychiatrists and psychologists within our Department, as well as collaborations with neuroscientists, molecular biologists, immunologists, neurologists, neurosurgeons, engineers, pediatricians, primary care physicians, educators, epidemiologists, and economists outside our Department. This research effort is highly disease-focused and translational, so that basic science research efforts are closely tied to clinical issues and patient care. The Department of Psychiatry and Human Behavior has prioritized the development of multidisciplinary translational projects that include collaborations between brain science faculty on the Brown University campus and hospital-based clinical faculty as well as public health program faculty involved in health policy and dissemination of evidence-based treatments.

**Institutes, Centers, and Core Resources**

The Department of Psychiatry and Human Behavior has partnered for many years with other Departments, Institutes, and Centers at Brown as well as Brown’s affiliated hospitals: Butler Hospital, Rhode Island Hospital, Emma Pendleton Bradley Hospital, Miriam Hospital, Providence Veteran’s Administration Medical Center, and Women and Infants Hospital.

Robert J. & Nancy D. Carney Institute for Brain Sciences (formerly Brown Institute for Brain Sciences, BIBS)

The Carney Institute is a multidisciplinary institute, which includes more than 100 faculty from 13 departments to advance multidisciplinary research, technology development, and training in the brain sciences. The Center unites faculty who study the fundamental mechanisms of nervous system function and those who seek to create devices with brain-like functions that can assist humankind. The faculty is also committed to translating fundamental knowledge for the diagnosis and treatment of the devastating effects of disease and trauma of the nervous system. Many faculty from the Department of Psychiatry and Human Behavior have an active role in the Institute including our chair, Dr. Rasmussen, and mentor for our psychiatry Research Training Program, Dr. Carpenter, who are active members of the Carney Institute Executive Committee. Under the leadership of Diane Lipscombe, Ph.D., incoming President of the Society for Neuroscience, the Carney Institute has recently received a $100M gift making it one of the best-endowed university brain science institutes in the country. This gift will allow the Institute to hire leading faculty and other scholars, provide research seed funding, and further develop infrastructure in technology-intensive research domains.

In addition to the more than 100 faculty members, The Carney Institute includes hundreds of students at the undergraduate, graduate, and postdoctoral level. The departments involved are Clinical Neuroscience, Cognitive and Linguistic Science, Neuroscience, Psychiatry and Human Behavior, Psychology, Applied Mathematics, Computer Science, Engineering, Philosophy, and Physics. Among its many accomplishments, the Institute has been instrumental in the successful recruitment of internationally recognized brain scientists to Brown, the development of a Brown neuroengineering initiative, the acquisition of a two-photon microscope, and the establishment of a state-of-the-art primate multi-electrode recording facility. The Carney Institute offers a regular schedule of events that are open to all members of the Brown University research community. These include weekly neurosurgery and neurology case conferences, the weekly Neuroscience Graduate Program Seminar Series, brain science-oriented talks from the Center for Statistical Sciences, a seminar series from the Brown Center for the Study of Human Development, and a Bench to Bedside seminar series co-sponsored by the Department of Psychiatry and Human Behavior.

The Carney Institute provides infrastructure to advance interdisciplinary research efforts among this broad group, including essential support to obtain and administer
multi-investigator grants for research, infrastructure, and training. The Institute actively seeks new training funds to support interdisciplinary education that transcends that available in individual academic departments. As one of its core missions, the Institute is developing and supporting a series of interdisciplinary research centers that focus on established or emerging areas of excellence in brain research at Brown. Each center bridges the physical and life sciences, and encompasses basic and translational research, including clinical application. For example, The Center for Vision Research unites scientists studying biological and computational vision, and the Synaptic and Neurodegenerative Disease Initiative unifies researchers investigating molecular mechanisms of neuron and synapse function, particularly at the genetic and molecular level, with the goal of revealing common mechanisms underlying multiple nervous system disorders. The Neurotechnology Initiative builds on the success of the BrainGate neural interface clinical trial and research effort to expand the number of neurotechnologies available for improved clinical care of diseases such as epilepsy, obsessive compulsive disorder, and depression. The Carney Institute has also established an MRI Research Facility and a Behavioral Analysis Core Facility.

Advance Clinical and Translational Research (Advance-CTR)

Advance CTR, funded through the IDEA-CTR program, serves to support and educate clinical and translational researchers in Rhode Island. The goal of Advance-CTR is to enhance collaboration and coordination of translational research to accelerate cross-disciplinary discoveries that improve health. Advance-CTR aims to: 1) Foster coordination between translational researchers at our partner institutions, 2) Bring together the diverse clinical research resources to provide a home that facilitates new collaborations, 3) Eliminate obstacles that may prevent researchers from pursuing clinical research initiatives, 4) Educate, mentor, and encourage young investigators in clinical research professional development, 5) Facilitate research to gather preliminary data necessary for developing competitive research proposals, and 6) Sustain a clinical translational research environment by providing the necessary management and coordination of resources.

A Pilot Projects Program awards four investigators per year with one-year grants of $75,000 each in direct costs for clinical and translational research. Awarded proposals must be interdisciplinary with a focus on clinical, translational, or community research. Awardees gain the opportunity to experience planning and preparing research applications in a National Institutes of Health format, respond to reviews, and learn grant management skills in a collaborative, cross-disciplinary environment. Finally, awardees may take advantage of Advance-CTR’s research services in both the pre-proposal and post-award stages of their projects. The Professional Development Core provides educational and mentoring opportunities to both junior and senior investigators. The Core includes the Mentored Research Awards program, which is geared toward early career-stage investigators, especially those who identify as underrepresented minority individuals in STEM. The Mentored Research Awards are given annually to three investigators from Brown University and the University of Rhode Island. They are two-year awards that cover 75% salary up to $90,000 in direct costs. An additional $25,000 is also provided to cover research-related expenses or tuition (a Master’s degree in Clinical and Translational Research from the Brown University School of Public Health is encouraged). Finally, the awards provide a structured mentoring program and training in clinical and translational research. A number of postdoctoral trainees in the Department of Psychiatry and Human Behavior have received mentored research junior faculty K awards funded by Advance-CTR, including a recent graduate of our Research Training Program in psychiatry.
A key component of Advance-CTR is the Brown Center for Biomedical Informatics (BCBI). Founded in July 2015 to lead the development and application of informatics approaches in biomedicine and health care, the mission of BCBI is to: (1) Innovate how electronic biomedical and health data are used, and (2) Implement solutions for improving biomedical research and healthcare delivery. The BCBI is developing translational bioinformatics approaches for incorporating biomedical knowledge into clinical practice. In addition, concomitant with the widespread adoption of electronic health record (EHR) systems within the healthcare data ecosystem, the Clinical Informatics Research and Discovery Laboratory of the BCBI is studying and using EHR data from clinical partners. The BCBI also works to develop computational approaches for studying healthcare delivery and quantifying the impact of healthcare reform initiatives. Advance-CTR also has a Clinical Research Design, Epidemiology and Biostatistics Core that provides a central location for Rhode Island investigators seeking quantitative and qualitative research design and analysis support through Advance-CTR. The Biostatistics Core hosts a statistics seminar tailored to the needs of our research track residents that is held in Dr. Tyrka’s office at Butler Hospital.

The Norman Prince Neurosciences Institute (NPNI) NPNI is composed of leadership from the Departments of Psychiatry, Neuroscience, Neurology, Neurosurgery, Pathology, Neuroradiology, and Emergency Medicine who are dedicated to advancing the neurosciences and reducing human suffering from disorders of the nervous system through research, clinical care, and advanced education. The goals of the Institute are to conduct rigorous, innovative research that unites and leverages the strengths of its partnerships with the Academic Medical Centers. Researchers have access to cutting-edge equipment, including an IBM supercomputer, core facilities for genomics and proteomics, a 3,500-sample brain bank, a medical simulation center, two 3T magnetic resonance imaging facilities, and a portable, multi-slice CT scanner. Clinicians affiliated with the institute not only have longstanding collaborations with Brown neuroscientists and cognitive researchers, but also with Brown researchers in applied mathematics, biostatistics, public health, molecular biology, electrical engineering, computer science, and computational biology.

Center for Alcohol and Addiction Studies (CAAS)
CAAS, in the School of Public Health, is an internationally renowned research center in alcohol research. The mission is twofold: 1) to conduct collaborative research that will lead to more effective treatment for alcohol and drug abuse, and 2) to create a nationwide program in substance abuse, education, and training for psychologists, physicians, medical students, and health care professionals. CAAS faculty conduct empirical research in a variety of areas of alcohol abuse/dependence, drug abuse/dependence, and tobacco use, ranging from laboratory investigations of mechanisms through treatment or early intervention to policy. Funding comes from the federal government and a variety of foundations. Comprehensive training is provided in how to conduct excellent research to predoctoral and postdoctoral research fellows. Faculty conduct clinical training seminars for practitioners at national and regional conferences. Faculty are involved in Physicians and Lawyers for National Drug Policy to align policy, practice, and public understanding with the scientific evidence that addiction is a preventable and treatable disease; to support the use of evidence-based, cost-effective approaches toward prevention and treatment; and to enable lawyers and physicians to provide effective and sustained leadership in this effort.
The Bradley Hasbro Children's Research Center (BHCRC)
The BHCRC was established in 2002, integrating researchers from the Bradley Research Center and investigators conducting child mental health research at RI Hospital/Hasbro Children's Hospital. Most of the research groups are located within a 20,000-square-foot space on the Rhode Island Hospital Campus, but the Bradley Sleep Lab and the Bradley Campus Research Unit in East Providence also house our investigators. Centralized infrastructure, physical proximity of disparate research groups, and regular research meetings promote collaboration and cross-fertilization of research ideas. This physical proximity of investigators, trainees, research assistants, and established infrastructure has led to a number of collaborative pilot projects, shared resources, and incremental grant applications that would not have come about if the BHCRC had not been formed. For example, mentors Jelalian (Obesity) and Koinis Mitchell (Asthma/Disparities) were awarded a grant on asthma, obesity, and emotional/behavioral outcomes in urban children.

Center for the Study of Children at Risk
The Brown Center for Children at Risk is dedicated to: 1) advanced theories of the developmental pathways from the fetal and infancy period in at-risk children, 2) enhancing synergy between research and clinical practice that advances child development research, intervention programs, and social policy, and 3) training scientists and practitioners in interdisciplinary methods from the field of child development. Research at the Center includes study populations that reflect important public health programs in children such as, prenatal exposure to illegal and legal drugs, psychotropic medication during pregnancy, prematurity, autism, and maternal depression.

Centers for Behavioral and Preventive Medicine (CBPM)
The CBPM aim to improve health through behavioral change and the integration of behavioral and biomedical science using clinical, community, and laboratory-based research. The Centers’ research bridges biomedical, sociobehavioral, and population/public health scientific disciplines. Faculty members are committed to basic research on mechanisms underlying behavioral factors in health and illness as well as applied research on the translation of these discoveries for clinical and community health improvement. Programs range from those that focus on primary prevention (e.g., promoting tobacco cessation, preventing weight gain, increasing physical activity, and HIV/AIDS prevention) to improving the effectiveness of treatment and enhancing quality of life in populations such as cancer survivors and patients enrolled in cardiac rehabilitation programs.

Center for Statistical Sciences (CSS)
CSS, in the School of Public Health, was founded in 1995 to foster research and statistical education at Brown Medical School and the University at large. CSS faculty and staff conduct methodologic research in a number of areas of biostatistics, including statistical methods for the assessment of diagnostic technology, design and analysis of clinical trials, statistical methods for health services and outcomes research, longitudinal data analysis, methodology for the analysis of observational studies, meta-analysis, and statistical methods for psychiatry and the behavioral sciences. The Center also serves as the biostatistics core for both national and local biomedical research projects. A graduate curriculum in biostatistics is offered by Center faculty as a track of the graduate program of the Department of Community Health. The program was launched in September 1999 and leads to MS and Ph.D. degrees in Biostatistics. Center faculty also launched the Brown undergraduate concentration in Statistics, in collaboration with departments across the campus. The Center organizes the Brown Statistics Seminar, which is held on Monday afternoons and features talks on current developments in statistical methodology and is open to the entire Brown community. In addition, Center faculty are holding regular "brown-bag" seminars in which topics of current research are discussed. Presenters in these informal seminars include Brown graduate students and faculty as well as other campus- and hospital-based research.
The Brown Data Science Initiative (DSI)
The DSI was established as a collaboration between Applied Mathematics, Biostatistics, Computer Science, and Mathematics to develop research and training around methodologies in Data Science and applications to domains. The Data Science Initiative represents a strong commitment on the part of Brown’s Administration for infrastructure and faculty development in the foundational methods in Data Science as well as applications to domains. A broad range of research topics in Database Systems, Machine Learning, Pattern Theory, and Topological Data Analysis are already active at Brown, and will be complemented and developed by new faculty and postdocs as the initiative grows. These resources will be integrated across the spectrum of Data Science research at Brown. Brown’s existing research strength in pattern theory and image processing is well established and represented by the work of Stuart Geman and Matt Harrison, as well as David Mumford (emeritus) carrying on the legacy of Ulf Grenander. The proposed project represents a new application avenue for the techniques developed in these premier departments at Brown, and its research outcomes will represent a premier component of the Data Science Initiative’s research portfolio. Academic and professional programs in Data Science offer a rigorous, innovative, and reflective approach to learning and collaboration for anyone seeking a distinctive professional profile on which to build a career in data-enabled fields. A one-year Master’s Program that prepares students from a wide range of disciplinary backgrounds will be offered.

COBRE Center for Central Nervous System Function (CCNSF).
The CCNSF (PI, Jerome Sanes, Ph.D.) focuses on the genetic and neural basis of attention, decision making, and action. The CCNSF was established in 2013 with the goal of creating core resources and developing the careers of a group of promising young investigators interested in how the brain controls decision making and attention in children and adults. The CCNSF projects are fundamental studies using advanced human brain imaging, electrophysiological techniques, and molecular genetics in humans and experimental animals. The CCNSF does not specifically target neuropsychiatric disorders or study clinical samples, but its faculty have expertise that provide opportunity for close collaborations with faculty at Butler. The CCNSF PI, Dr. Sanes is also Director of the Brown MRF. The COBRE Center for Central Nervous System Function is a subunit of the Carney Institute for Brain Science.

COBRE Center for Computational Biology of Human Disease
This COBRE Center embraces the age of genomics medicine from an explicitly data-driven, computational perspective. By building a collaborative Center of empirical and computational scientists, the COBRE advances new discoveries, algorithms, and genomic screening approaches with direct relevance to several human diseases. This is consistent with the National Institutes of Health’s mission of supporting bioinformatics and computational biology to advance all areas of biomedicine. This Center provides a centralized service to assist researchers in computational, bioinformatic, and data management challenges of analyzing large data sets made available by modern ‘omics’ technologies. In addition, this funding will support the research activities of junior investigators to ensure their transition to stand-alone extramurally funded research scientists. The COBRE uses an innovative joint mentoring process, where each junior faculty member is advised by both computational and biological or clinical senior faculty members. In addition, staff data scientists in the Computational Biology Core will be active members of each of these laboratory groups to better integrate all phases of the research activities.

Center for Computational Molecular Biology (CCMB)
The CCMB at Brown was founded in September 2003 with the aim of establishing a world-class center for research and scholarship in this new discipline. CCMB’s central mission is to make breakthrough discoveries in the life sciences at the molecular and cellular level through the creative application of existing data analytic methods, and the development of novel computational, mathematical, and statistical technologies required exploit the opportunities emerging from advances in genomics and proteomics.

Additional Educational Opportunities
Research Symposia
Brown’s Institutes, Centers, Departments, and Core resources sponsor many research-focused symposia, seminars, and talks that are relevant to mental health and accessible to residents. For example, the Department of Psychiatry and Human Behavior hosts the annual Mind Brain Research Day. The symposium allows national leaders, the Rhode Island and regional community, and our faculty, residents, and other trainees a venue in which to present, view, and discuss the groundbreaking research being conducted in our Department. Attendees include hundreds of faculty, residents, graduate students, and other trainees from the Department of Psychiatry and Human
Behavior and the Departments of Neurology, Neurosurgery, Neuroscience, and Psychology, Cognitive and Linguistic Sciences. Past keynote speakers include such distinguished scientists as Trevor Robbins, CBE FRS FMedSci FBPsS, Head of the Department of Psychology and Professor of Cognitive Neuroscience and Experimental Psychology at the University of Cambridge; Paul Greengard, Ph.D., 2000 Nobel Laureate and Vincent Astor Professor at the Laboratory of Molecular and Cellular Neuroscience at the Rockefeller University; Alan Schatzberg, M.D., Kenneth T. Norris Jr. Professor and former Chairman of the Department of Psychiatry and Behavioral Sciences at the Stanford University School of Medicine; Husseini K. Manji, M.D., past Chief of the Laboratory of Molecular Pathophysiology and Director of the Mood and Anxiety Disorders Program at the National Institute of Mental Health; Floyd E. Bloom, M.D., past Chairman of the Department of Neuropharmacology at the Scripps Research Institute (TSRI) in La Jolla, California; Helen Mayberg, Professor of Psychiatry, Neurology and Radiology, and Dorothy C. Fuqua Chair of Psychiatric Neuroimaging and Therapeutics at Emory University, and Thomas Insel, M.D., past Director of the National Institute of Mental Health. Additionally, the day includes a poster session where more than 100 posters submitted by our faculty, residents, and trainees are displayed.

Research Opportunities for Residents

Brown has a long record of outstanding research programs and training experiences available for residents. Our National Institute of Mental Health (NIMH) funded R25 Research Training Program (described below) provides substantial time and support for residents geared toward careers as physician scientists. Residents who wish to participate in research on a more modest scale also have opportunities for mentored research experiences, attending research seminars, and presenting their work at local and national conferences.

The National Institute of Mental Health-Funded Research Training Program

The Research Training Program gives selected residents substantial protected research time during their training. The program's leadership team works in collaboration with one another, and with the residents and faculty mentors, to provide an individualized research training experience for each resident, while ensuring outstanding clinical training. Residents increase their involvement in the research track with each successive year. The core components are:

1) Individualized Longitudinal Mentored Research Training Experience: This central experience pairs research residents with an experienced and successful scientist in a translational, clinical, or basic science domain and provides protected time across the four years of residency for training and research. This experience progresses from closely supervised introductory work to greater independence and responsibility. Residents begin with supervised participation in the mentor's ongoing research program. They delve into the literature in their area of interest, mastering prior findings and generating questions and hypotheses. Data analysis and manuscript preparation from the mentor's existing databases or ongoing projects may also be undertaken. The literature review may be submitted for publication as a review paper or used as the introduction to a data paper. Over time, residents develop a supervised research project in which they take a leading role. They formulate the research question and hypotheses, design the study or analysis plan for existing data, collect data and conduct analyses, and take the lead on manuscript preparation and presentations. The rate of progression and the complexity of the project depend on the level of prior research experience and progress during residency. Residents with limited research experience, and those who have decided to substantially change their research domain, require more foundational experiences and trainings prior to leading a project. Residents with substantial prior training and experience who continue in the domain of their prior research generally progress more quickly to advanced training and greater independence. Residents are encouraged to build upon prior research training to develop their research plans.

Our residents have successfully competed for internal and external funding for their research including internal competitive pilot funds such as the Carney Institute for Brain Science and the Norman Prince Neuroscience Institute New Frontiers Awards ($40K, one year, renewable, requires faculty co-PI) and Innovation Awards (up to $100K, requires faculty co-PI), Seed Grants through the Center for Neurorestoration and Neurotechnology up to $30,000, and the Department of Psychiatry and Human Behavior Diversity Development Award ($20K to support trainee or faculty research by an investigator from under-represented or disadvantaged groups). In addition, our research track residents have applied for and received foundation research awards, such as the Thrasher Research
The Research Training Program in Each PG Year

Residents and their mentors develop an individualized research education program each year addressing the four components listed above. We begin participation in the PG-1 year because we believe it is important for residents to stay engaged in research, finalize mentors and research topics, and begin work with mentors. Research productivity and independence increase over the course of the program. Research education programs are individualized to the resident’s prior training and current research domain and goals, the type of research (e.g., translational, basic, or clinical science), and the resident’s progress in the program. A needs-assessment regarding research design and statistics, manuscript writing, and content area knowledge and data collection skills for their planned area of study is completed annually to assist residents and mentors with developing didactic and hands-on training experiences and pre-emptively addressing topics that could impede progress.

- **PG-1.** Residents have ½ day protected research time per week during psychiatry rotations, and at the end of the year they have a full-time research month. PG-1 residents first meet with the Program Director for orientation to discuss selecting a mentor and research domain as well as program expectations and resources. They attend research seminars and have additional meetings with the Program Director to identify a mentor and research domain. Residents then learn about the mentor’s work and develop a specific area of focus; they familiarize themselves with the literature and methods in this area, and with their mentor they develop their individualized research plan. More advanced residents can also begin planning their independent research project with their mentor in PG-1. When appropriate, some residents also complete manuscript submissions from prior research during the PG-1 year.

- **PG-2.** Residents continue with ½ day per week (excluding two night-float months) protected research time, and also have a one-month research elective. The research block is timed to maximize productivity based on the project and mentor schedule. Residents continue with research seminars and may take elective didactics. They continue advancing the knowledge
and skills they began working on in PG-1, they plan their independent project, and may initiate data collection. PG-2 residents present and/or publish their work, and they work on career development skills in seminars and at local and national conferences.

- **PG-3.** In the PG-3 year, residents have 33% protected research time, 1.5 days per week during their outpatient year. We encourage research track residents to develop clinical expertise in an area relevant to their research focus, while having a broad enough caseload to meet all ACGME requirements. This approach fosters an integrated identity as a physician-scientist and promotes translational thinking about approaches to studying mental illness. Building upon groundwork laid in the PG-1 and PG-2 years, residents work on all elements of the research education program, including their research project. They continue with seminars, and may have additional time to complete elective didactics. Residents participate in a grant writing seminar in either the PG-3 or PG-4 years based on their research progress. Products of their work include publications and presentations at national meetings, and they are encouraged to submit a proposal for pilot research funding in PG-3 or PG-4. Residents begin to focus more on career development and consider options for the next stage of their career, participating in the Career Development Seminar, discussing ideas with their mentor, program directors, the Chair, and in career-development sessions at national meetings.

- **PG-4.** Residents have 80% protected time for research training in the PG-4 year, and are encouraged to choose clinical experiences that fit with their research interests. They work more independently, hone research skills and learn to manage various aspects of data collection and study management. PG-4 residents are expected to have greater research productivity than in prior years. PG-4 residents also work more intensively on plans to transition to the next career stage in the Career Development Seminar and individual meetings with mentors, the program directors, and the Chair. Grant writing and knowledge of the career development award mechanism are learned through the grant writing didactics taken in the PG-3 or PG-4 years. Residents who need additional research training are strongly encouraged to apply for a research training fellowship (e.g., a T32 at Brown or another institution); others are ready to apply for career development awards or apply for an academic faculty position.

**Transitioning to the Next Career Stage**

Brown is committed to supporting research-focused graduates in developing excellent research opportunities following residency. Graduates who choose to relocate are well-positioned to attain fellowship or faculty positions at first-rate institutions and have the support of the Chair, program directors, and faculty mentors in connecting with other research programs and positions. For residents who choose to stay at Brown, our Department’s five T32 research training fellowships, plus the Department of Neuroscience’s two T32s, offer an excellent opportunity for additional training. Graduating residents with more experience (e.g., some M.D.s, Ph.D.s) may not need a formal didactic program contained in a T32 but still benefit from protected, mentored research time.
Recognized Areas of DPHB Research Excellence*

<table>
<thead>
<tr>
<th>Psychopathology and Treatment</th>
<th>Behavioral Medicine and Prevention</th>
<th>Psychiatric Genetics</th>
<th>Neuroimaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addictions</td>
<td>HIV</td>
<td>Autism</td>
<td>Bipolar Disorder</td>
</tr>
<tr>
<td>Anxiety Disorders</td>
<td>Obesity</td>
<td>Addictions</td>
<td>OCD</td>
</tr>
<tr>
<td>Autism</td>
<td>Smoking</td>
<td>Early Stress and Depression</td>
<td>Neuromodulation</td>
</tr>
<tr>
<td>Chronobiology</td>
<td>Exercise</td>
<td>OCD</td>
<td>Infant Development</td>
</tr>
<tr>
<td>Mood Disorders</td>
<td>Behavioral Health/Primary Care</td>
<td>Behavioral Medicine</td>
<td>Alzheimer's</td>
</tr>
<tr>
<td>Suicide</td>
<td>Childhood Asthma</td>
<td>Chronobiology</td>
<td>Depression</td>
</tr>
<tr>
<td>Neurodegenerative Disorders</td>
<td>Complementary Medicine</td>
<td>Infant Development</td>
<td>PTSD</td>
</tr>
<tr>
<td>Mindfulness</td>
<td>Migraines</td>
<td>Early Stress and Trauma</td>
<td>Suicide</td>
</tr>
<tr>
<td>OCD</td>
<td>Technology-Assisted Treatments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTSD</td>
<td>Eating Behavior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NeuromodulationTMS-Gamma-tDCS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Women's Medicine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Early Life Stress and Depression</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology-Assisted Assessment</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Adult
Child
Adult and Child

* There are many other areas of research focus in the DPHB; those listed here are federally funded research areas.
Sampling of Research Funding

The research grant listing is based on reports collected regarding direct and indirect costs for active research conducted by the Department of Psychiatry and Human Behavior faculty centered at Brown University and the Brown University-affiliated hospitals and centers. This list is comprised of grants active during the 2017-18 fiscal year and does not reflect grants that may have been funded after that time. Grants on this list may have been completed and PIs may have left during the course of the 2017-18 year. Grant listings may be repeated for co-investigators or subcontracts residing at different hospitals.

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Principal Investigator Affiliation</th>
<th>Funding Agency</th>
<th>Title of Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrantes, Ana</td>
<td>Butler Hospital</td>
<td>National Cancer Institute</td>
<td>Aerobic Exercise for Smokers with Depressive Symptomatology</td>
</tr>
<tr>
<td>Abrantes, Ana</td>
<td>Butler Hospital</td>
<td>NIAAA</td>
<td>Technology-Supported Physical Activity Intervention for Depressed Alcoholic Women</td>
</tr>
<tr>
<td>Abrantes, Ana and Stein, Michael</td>
<td>Butler Hospital</td>
<td>NIDA</td>
<td>Peer-Facilitated Physical Activity Intervention Delivered During Methadone Maintenance</td>
</tr>
<tr>
<td>Armey, Michael</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Narrative Intervention to Disseminate ACT for Depression in Primary Care</td>
</tr>
<tr>
<td>Armey, Michael</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Functional imaging of cortico-limbic predictors of emotion regulation, emotion reactivity and risk for suicidal ideation and behavior</td>
</tr>
<tr>
<td>Armey Michael and Miller, Ivan</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Behavioral and Ecological Suicide Tracking: Attention, Interpretation, and Memory</td>
</tr>
<tr>
<td>Battle, Cynthia</td>
<td>Butler Hospital</td>
<td>National Institute of Nursing Research</td>
<td>RCT of a tailored walking program to reduce stress among pregnant women</td>
</tr>
<tr>
<td>Battle, Cynthia</td>
<td>Butler Hospital</td>
<td>NICHD</td>
<td>Efficacy of a Prenatal Yoga Intervention for Antenatal Depression</td>
</tr>
<tr>
<td>Benito, Kristen</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Quality Assessment in Exposure Therapy</td>
</tr>
<tr>
<td>Blevins, Claire</td>
<td>Butler Hospital</td>
<td>NIAAA</td>
<td>A Targeted, Real Time, Technology Support Intervention for Patients With Alcohol Use Disorder on Disulfiram</td>
</tr>
<tr>
<td>Bock, Beth</td>
<td>CBPM</td>
<td>NCCIH</td>
<td>Efficacy of Yoga as an Alternative Therapy for Smoking Cessation</td>
</tr>
<tr>
<td>Bock, Beth</td>
<td>CBPM</td>
<td>NHLBI</td>
<td>Efficacy of Exercise Videogames for Physical Activity Adoption and Maintenance</td>
</tr>
<tr>
<td>Bock, Beth</td>
<td>CBPM</td>
<td>NIDA</td>
<td>I Live Inspired: Individually Tailored and Integrated Social Support Network for Tobacco Cessation</td>
</tr>
<tr>
<td>Bond, Dale and Thomas, J. Graham</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>Ecological Momentary Assessment of Behavioral and Psychosocial Predictors of Weight Loss Following Bariatric Surgery</td>
</tr>
<tr>
<td>Brown, Larry</td>
<td>Bradley</td>
<td>NIMH</td>
<td>A Multilevel Gaming Intervention for Persons on PrEP</td>
</tr>
<tr>
<td>Brown, Larry</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Comparative Efficacy of HIV-Prevention Programs Among Youth in Mental Health Needs</td>
</tr>
<tr>
<td>Name(s)</td>
<td>Institution 1</td>
<td>Institution 2</td>
<td>Project Title</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------</td>
<td>---------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Brown, Larry</td>
<td>Bradley</td>
<td>NIH</td>
<td>Digital STAR:HIV Prevention for Youth in Mental Health Treatment</td>
</tr>
<tr>
<td>Brown, Larry</td>
<td>Bradley</td>
<td>NIMH</td>
<td>MySTYLE: Online Family-Based HIV Prevention for Non-Heterosexual Black Males in the South</td>
</tr>
<tr>
<td>Brown, Larry</td>
<td>Bradley</td>
<td>NIMH</td>
<td>A Mobile Intervention to Improve Uptake of PrEP for Southern Black MSM</td>
</tr>
<tr>
<td>Brown, Larry</td>
<td>Bradley</td>
<td>NIMH</td>
<td>T32 Training in Child/Adolescent Biobehavioral HIV Research</td>
</tr>
<tr>
<td>Carey, Michael and Salmoirago-Blotcher, Elena</td>
<td>CBPM</td>
<td>NCCIH</td>
<td>Mindfulness Training to Improve ART Adherence and Reduce Risk Behavior among Persons Living with HIV</td>
</tr>
<tr>
<td>Carey, Michael</td>
<td>CBPM</td>
<td>NIAAA</td>
<td>Reducing Alcohol-related HIV/STI Risk for Women in Reproductive Health Clinics</td>
</tr>
<tr>
<td>Carskadon, Mary</td>
<td>Bradley</td>
<td>NSF</td>
<td>Smart Lights: A Biophilic Lighting System to Enhance Secondary Education</td>
</tr>
<tr>
<td>Carskadon, Mary</td>
<td>Bradley</td>
<td>NIDDK</td>
<td>Food Choices in Overweight &amp; Normal Weight Adolescents-Sleep &amp; Circadian Rhythms</td>
</tr>
<tr>
<td>Christopher, Paul</td>
<td>Brown</td>
<td>NIDA</td>
<td>Is civil commitment effective public policy for reducing opioid use disorder and related mortality?</td>
</tr>
<tr>
<td>Christopher, Paul</td>
<td>Brown</td>
<td>NIDA</td>
<td>Measuring Prisoners’ Voluntary Consent to Clinical Research for Opioid</td>
</tr>
<tr>
<td>Dickstein, Daniel</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Non-Suicidal Self-Injury in Children: Brain/Behavior Alterations and Risk for Suicidal Beha</td>
</tr>
<tr>
<td>Dickstein, Daniel</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Functional Imaging of Cortico-limbic Predictors of Emotion Regulation, Emotion Reactivity, and Risk for Suicidal Ideation and Behavior</td>
</tr>
<tr>
<td>Dickstein, Daniel</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Brain and Behavior Mechanisms of Irritability and Cognitive Flexibility in Children</td>
</tr>
<tr>
<td>Duarte-Velez, Yovanska</td>
<td>Brown</td>
<td>NIMH</td>
<td>Treatment for Latino/a Adolescents with Suicidal Behavior</td>
</tr>
<tr>
<td>Dunsiger, Shira</td>
<td>CBPM</td>
<td>NCI</td>
<td>Peers Promoting Exercise Adoption and Maintenance Among Cancer Survivors</td>
</tr>
<tr>
<td>Dunsiger, Shira</td>
<td>CBPM</td>
<td>NICHD</td>
<td>Intervention to Prevent Peer Violence &amp; Depressive Symptoms Among At-Risk Adolescents</td>
</tr>
<tr>
<td>Evans, Erin Whitney</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>Evaluation and Enhancement of the Summer Food Service Program in Youth from an Urban, Low-Resource Community</td>
</tr>
<tr>
<td>Frank, Mascha</td>
<td>Brown</td>
<td>Providence VA Medical Center</td>
<td>CNNN seed funded - Frank, Mascha IPA</td>
</tr>
<tr>
<td>Freeman, Jennifer</td>
<td>Bradley</td>
<td>NIMH</td>
<td>CBT for Pediatric OCD: Effective therapist behaviors and community training pilot</td>
</tr>
<tr>
<td>Freeman, Jennifer</td>
<td>Bradley</td>
<td>Patient Centered Outcomes Research Institute</td>
<td>Comparison of Provider-Centered versus Patient-Centered CBT for Pediatric Anxiety and OCD</td>
</tr>
<tr>
<td>Gaudiano, Brandon and Uebelacker, Lisa</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Narrative intervention to disseminate ACT for depression in primary care</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Sponsor</td>
<td>Funding Agency</td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------------------</td>
<td>---------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Goldschmidt, Andrea</td>
<td>CBPM</td>
<td>NIDDK</td>
<td></td>
</tr>
<tr>
<td>Goldstein, Carly</td>
<td>CBPM</td>
<td>NIGMS</td>
<td></td>
</tr>
<tr>
<td>Goldstein, Carly</td>
<td>CBPM</td>
<td>NIDDK</td>
<td></td>
</tr>
<tr>
<td>Greenberg, Benjamin</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td></td>
</tr>
<tr>
<td>Guthrie, Kate</td>
<td>CBPM</td>
<td>NICHD</td>
<td></td>
</tr>
<tr>
<td>Guthrie, Kate</td>
<td>CBPM</td>
<td>NIAID</td>
<td></td>
</tr>
<tr>
<td>Guthrie, Kate</td>
<td>CBPM</td>
<td>NIAID</td>
<td></td>
</tr>
<tr>
<td>Hadley, Wendy</td>
<td>Bradley</td>
<td>NIDDK</td>
<td></td>
</tr>
<tr>
<td>Hawkins, Risa Weisberg</td>
<td>Brown</td>
<td>NIMH</td>
<td></td>
</tr>
<tr>
<td>Houck, Christopher</td>
<td>Bradley</td>
<td>NORTHEASTERN</td>
<td></td>
</tr>
<tr>
<td>Houck, Christopher</td>
<td>Bradley</td>
<td>NORTHEASTERN</td>
<td></td>
</tr>
<tr>
<td>Japuntich, Sandra</td>
<td>CBPM</td>
<td>ACS</td>
<td></td>
</tr>
<tr>
<td>Jelalian, Elissa</td>
<td>CBPM</td>
<td>NIDDK</td>
<td></td>
</tr>
<tr>
<td>Jones, Richard</td>
<td>Brown</td>
<td>Hebrew SeniorLife</td>
<td></td>
</tr>
<tr>
<td>Jones, Richard</td>
<td>Brown</td>
<td>Regents of the University of Michigan</td>
<td></td>
</tr>
<tr>
<td>Jones, Richard</td>
<td>Brown</td>
<td>NIA</td>
<td></td>
</tr>
<tr>
<td>Kemp, Kathleen</td>
<td>Bradley</td>
<td>NIMH</td>
<td></td>
</tr>
<tr>
<td>Koinis-Mitchell, Daphne</td>
<td>Bradley</td>
<td>UCSF</td>
<td></td>
</tr>
<tr>
<td>Koinis-Mitchell, Daphne</td>
<td>Bradley</td>
<td>COLUMBIA</td>
<td></td>
</tr>
<tr>
<td>Koinis-Mitchell, Daphne</td>
<td>Bradley</td>
<td>NHLBI</td>
<td></td>
</tr>
<tr>
<td>Last Name, First Name</td>
<td>Organization(s)</td>
<td>Funding Agency(s)</td>
<td>Title</td>
</tr>
<tr>
<td>------------------------------</td>
<td>------------------------</td>
<td>-------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>LaFrance, Curt</td>
<td>VA</td>
<td>DoD</td>
<td>Neuroimaging Biomarker for Seizures</td>
</tr>
<tr>
<td>Lester, Barry</td>
<td>Women and Infants</td>
<td>NIH</td>
<td>MicroRNA, Environmental Exposures and Newborn Outcomes</td>
</tr>
<tr>
<td>Lester, Barry</td>
<td>Women and Infants</td>
<td>NIH</td>
<td>Environmental Influences On Neurodevelopmental Outcome In Infants Born Very Preterm</td>
</tr>
<tr>
<td>Lester, Barry</td>
<td>Women and Infants</td>
<td>Brown</td>
<td>Acoustic Cry Analyzer For The Diagnosis Of Infants Suffering Withdrawal Due To Prenatal Opioid Exposure</td>
</tr>
<tr>
<td>Lillis, Jason</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>Using Novel Behavioral Approaches to Improve Long-Term Weight Loss Outcomes</td>
</tr>
<tr>
<td>Lillis, Jason</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>A Novel Behavioral Approach for the Adoption and Maintenance of Habitual Physical Activity</td>
</tr>
<tr>
<td>Liu, Richard</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Life stressors, impulsivity, and adolescent suicidal behavior</td>
</tr>
<tr>
<td>Liu, Richard</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Modulating Impulsivity in Suicidal Adolescents with tDCS: A Proof Concept Study</td>
</tr>
<tr>
<td>McDermott (Demos), Kathryn</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>Promotion and Prevention in the Treatment of Obesity</td>
</tr>
<tr>
<td>McGeary, John</td>
<td>Bradley</td>
<td>NIH</td>
<td>Contribution of Genome-Wide Variation to Cognitive Vulnerability to Depression</td>
</tr>
<tr>
<td>McLaughlin, Nicole</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Neuroanatomical Changes After Ventral Capsulotomy for Intractable OCD: A Translational Approach</td>
</tr>
<tr>
<td>McQuaid, Elizabeth</td>
<td>Bradley</td>
<td>RIDOH</td>
<td>Greater Providence Service Coordination, Comprehensive Integrated Asthma Care System</td>
</tr>
<tr>
<td>McQuaid, Elizabeth/Koinis-Mitchell, Daphne</td>
<td>Bradley</td>
<td>National Heart, Lung and Blood Institute</td>
<td>Rhode Island Asthma Integrated Response Program (RI-AIR)</td>
</tr>
<tr>
<td>Miller, Ivan</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Evaluation of the &quot;Coping Long Term with Active Suicide Program&quot;</td>
</tr>
<tr>
<td>Miller, Ivan</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Suicide risk reduction in the year following jail release: the SPIROT Trial (Suicide Prevention Intervention for at-Risk Individuals in Transition)</td>
</tr>
<tr>
<td>Moitra, Ethan</td>
<td>Brown</td>
<td>Miriam Hospital</td>
<td>A brief motivational interviewing-based intervention to improve HIV pre-exposure prophylaxis uptake among men who have sex with men</td>
</tr>
<tr>
<td>Morrow, Eric</td>
<td>Bradley</td>
<td>Brown</td>
<td>Autism, a Precision Medicine Approach</td>
</tr>
<tr>
<td>Nelson, Kimberly</td>
<td>CBPM</td>
<td>NIMH</td>
<td>Influences on Risk Behaviors among Young Men</td>
</tr>
<tr>
<td>Nugent, Nicole</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Understanding the Interplay of Social Context and Physiology on Psychological Outcomes in Trauma-Exposed Adolescents</td>
</tr>
<tr>
<td>Nugent, Nicole</td>
<td>Bradley</td>
<td>NIMH</td>
<td>Biomarkers, social, and affective predictors of suicidal thoughts and behaviors in adolescents - old title: Social and Affect Dynamics in Adolescents after Psychiatric Hospitalization</td>
</tr>
<tr>
<td>Parade D'Atri, Stephanie</td>
<td>Bradley</td>
<td>HRSA</td>
<td>Adverse Childhood Experiences in the Parent Generation: Impact on Family Engagement and Program Efficacy of MIECHV Home Visiting</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Funding</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------</td>
<td>------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Peters, Jessica Brown</td>
<td>NIMH</td>
<td>Anger Rumination in the Development of Psychopathology</td>
<td></td>
</tr>
<tr>
<td>Philip, Noah</td>
<td>VA</td>
<td>Combined Transcranial Direct Current Stimulation and Virtual Reality for PTSD</td>
<td></td>
</tr>
<tr>
<td>Philip, Noah</td>
<td>VA</td>
<td>PTSD and the Default Network: Developing Imaging Phenotypes (MHBA-023-12F)</td>
<td></td>
</tr>
<tr>
<td>Rasmussen, Steven Brown</td>
<td>NIMH</td>
<td>Harm avoidance and incompleteness as dimensional endophenotypes in anxiety and OC spectrum disorders</td>
<td></td>
</tr>
<tr>
<td>Righi, Giulia Bradley</td>
<td>MMC</td>
<td>Autism and Development Disorders Inpatient Research Collaborative</td>
<td></td>
</tr>
<tr>
<td>Sachs, Henry Bradley</td>
<td>SRI</td>
<td>Rhode Island Child Psychiatry Access Program (RICPAP)</td>
<td></td>
</tr>
<tr>
<td>Saletin, Jared Bradley</td>
<td>NIMH</td>
<td>The Interaction of Brain Structure and Sleep Neurophysiology in Regulating the Neural Substrates of Inattention Symptoms in Pediatric ADHD</td>
<td></td>
</tr>
<tr>
<td>Salisbury, Amy Women and Infants</td>
<td>NIMH</td>
<td>Fetal and Neonatal Neurobehavior and Prenatal Antidepressant Exposure: The Child</td>
<td></td>
</tr>
<tr>
<td>Salloway, Stephen Butler Hospital Merck Sharp and DOHME Corp.</td>
<td>A phase III, randomized, placebo-controlled, parallel-group, double blind clinical trial to study the efficacy and safety of MK-8931 (SCH 900931) in subjects with amnestic Mild Cognitive Impairment due to Alzheimer's Disease (prodromal AD)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salloway, Stephen Butler Hospital BIOGEN MA</td>
<td>A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Aducanumab (BIIB037) in Subjects with Early Alzheimer's DiseaseDonepezil for Symptomatic Treatment in Subjects with Alzheimer's Disease</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salloway, Stephen Butler Hospital BIOGEN IDEC</td>
<td>A Randomized, Double-Blind, Placebo-Controlled Multiple Dose Study to Assess the Safety, Tolerability, Pharmacokinetics, and Subjects Pharmacodynamics of BIIB037 in with Prodromal or Mild Alzheimer's Disease</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salloway, Stephen Butler Hospital National Institute on Aging</td>
<td>Dominantly Inherited Alzheimer Network</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salloway, Stephen Butler Hospital NIH</td>
<td>Dominantly Inherited Alzheimer Network: An Opportunity to Prevent Dementia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salmoirago-Blotcher, Elena CBPM</td>
<td>NHLBI</td>
<td>Exploring the Role of Mindfulness Training in the Promotion of Medication Adherence in Heart Failure Outpatients</td>
<td></td>
</tr>
<tr>
<td>Schatten, Heather and Miller, Ivan Butler Hospital NIMH</td>
<td>Predicting Suicide: A longitudinal Analysis of Speech Patterns in a High Risk Sample</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott-Sheldon, Lori and Carey, Michael CBPM</td>
<td>NCCIH</td>
<td>Psychosocial, Immunological, and Biobehavioral Benefits of Stress Management Interventions for Chronic Diseases: Comprehensive Systematic Review and Meta-Analyses</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Funding</td>
<td>Project</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------------</td>
<td>-----------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Seifer, Ronald</td>
<td>Bradley</td>
<td>HRSA</td>
<td>Maternal, Infant, and Early Childhood Home Visiting Evaluation</td>
</tr>
<tr>
<td>Seifer, Ronald</td>
<td>Bradley</td>
<td>DHHS</td>
<td>Early Childhood Mental Health Consultation (Project SUCCESS)</td>
</tr>
<tr>
<td>Seifer, Ronald</td>
<td>Bradley</td>
<td>SAMHSA</td>
<td>Rhode Island Project LAUNCH Expansion</td>
</tr>
<tr>
<td>Shea, Tracie</td>
<td>VA</td>
<td>Department of Veteran Affairs - RRD</td>
<td>Interpersonal Therapy for Veterans with PTSD</td>
</tr>
<tr>
<td>Sheinkopf, Stephen</td>
<td>Women and Infants</td>
<td>Simons Foundation</td>
<td>The Rhode Island Consortium for Autism Research and Treatment (RICART) - Phase II</td>
</tr>
<tr>
<td>Sheinkopf, Stephen</td>
<td>Women and Infants</td>
<td>WIH-RI</td>
<td>The Rhode Island Multi-Site Genetic Study of Autism and Intellectual Disability: Rhode Island Consortium for Autism Research &amp; Treatment - Phase II</td>
</tr>
<tr>
<td>Spirito, Anthony</td>
<td>Brown</td>
<td>NIAAA</td>
<td>Adolescents with Major Depression and AUD: Community-Based Integrated Treatment</td>
</tr>
<tr>
<td>Spirito, Anthony</td>
<td>Brown</td>
<td>NIDA</td>
<td>Computer-Assisted Brief Intervention Protocol for Marijuana Using Juvenile Offenders</td>
</tr>
<tr>
<td>Spirito, Anthony</td>
<td>Brown</td>
<td>Bradley Hospital</td>
<td>Life Stressors, Impulsivity, and Adolescent Behavior</td>
</tr>
<tr>
<td>Spirito, Anthony</td>
<td>Bradley</td>
<td>National Research Service Awards</td>
<td>Research Training in Child Mental Health</td>
</tr>
<tr>
<td>Stein, Michael</td>
<td>Butler Hospital</td>
<td>NIAAA</td>
<td>Comparing Brief Alcohol Interventions for HIV-HCV Co-infected Persons</td>
</tr>
<tr>
<td>Stein, Michael</td>
<td>Butler Hospital</td>
<td>NIDA</td>
<td>Neuroimaging Predictors of Relapse During Treatment for Opiate Dependence</td>
</tr>
<tr>
<td>Stein, Michael</td>
<td>Butler Hospital</td>
<td>NIAAA</td>
<td>AA Linkage for Alcohol Abusing Women Leaving Jail</td>
</tr>
<tr>
<td>Stein, Michael and Uebelacker, Lisa</td>
<td>Butler Hospital</td>
<td>National Institute of Nursing Research</td>
<td>Improving Functioning in HIV Patients with Chronic Pain and Comorbid Depressive Symptoms</td>
</tr>
<tr>
<td>Stein, Michael and Uebelacker, Lisa</td>
<td>Butler Hospital</td>
<td>Nat’l Ctr. Complementary and Intr. Health</td>
<td>Yoga to Treat Chronic Pain in Persons Receiving Opioid Agonist Therapy</td>
</tr>
<tr>
<td>Stroud, Laura</td>
<td>CBPM</td>
<td>NIMH</td>
<td>HPA &amp; Neural Response to Peer Rejection: Biomarkers of Adolescent Depression Risk</td>
</tr>
<tr>
<td>Stroud, Laura</td>
<td>CBPM</td>
<td>NIDA</td>
<td>Maternal Smoking: HPA and Epigenetic Pathways to Infant Neurobehavioral Deficits</td>
</tr>
<tr>
<td>Stroud, Laura</td>
<td>CBPM</td>
<td>NIDA</td>
<td>Fetal Behavior, Brain &amp; Stress Response: Ultrasound Markers of Maternal Smoking</td>
</tr>
<tr>
<td>Stroud, Laura/Scott-Sheldon, Lori</td>
<td>CBPM</td>
<td>NIDA</td>
<td>Impact of Flavors and Design Features on Patterns of Waterpipe Use and Toxicity in Pregnant Mothers</td>
</tr>
<tr>
<td>Tyrka, Audrey</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>Early Life Stress: Epigenetic Regulation of Endocrine and Immune Pathways</td>
</tr>
<tr>
<td>Tyrka, Audrey</td>
<td>Butler Hospital</td>
<td>NICHD</td>
<td>Profiles and Mechanisms of Disease in and Maltreated Children</td>
</tr>
<tr>
<td>Tyrka, Audrey</td>
<td>Brown</td>
<td>NIMH</td>
<td>Promoting Research Training During Psychiatry Residency</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Granting Institute</td>
<td>Title</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------------</td>
<td>--------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Uebelacker, Lisa and</td>
<td>Butler Hospital</td>
<td>National Heart,</td>
<td>Initiating and Maintaining Physical Activity in Depressed Individuals</td>
</tr>
<tr>
<td>Abrantes, Ana</td>
<td></td>
<td>Lung, and Blood</td>
<td></td>
</tr>
<tr>
<td>Unick, Jessica</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>Exercise as a Buffer Against Stress-Induced Eating</td>
</tr>
<tr>
<td>Vergara-Lopez, Chrystal</td>
<td>CBPM</td>
<td>NIGMS</td>
<td>RICCTS Attentional and Neuroendocrine Mechanisms of Depression Among Adolescent Girls</td>
</tr>
<tr>
<td>Weinstock, Lauren</td>
<td>Brown</td>
<td>NIMH</td>
<td>Treatment Decisions for Perinatal Bipolar Disorder</td>
</tr>
<tr>
<td>Whiteley, Laura</td>
<td>Brown</td>
<td>NIMH</td>
<td>A Multilevel Gaming Intervention for Persons on PrEP</td>
</tr>
<tr>
<td>Wing, Rena</td>
<td>CBPM</td>
<td>NHLBI</td>
<td>Preventing Excessive Gestational Weight Gain in Obese Women</td>
</tr>
<tr>
<td>Wing, Rena</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>A Randomized Trial Testing Lay Health Coaches for Obesity Treatment</td>
</tr>
<tr>
<td>Wing, Rena</td>
<td>CBPM</td>
<td>NHLBI</td>
<td>Ripple Effect of Lifestyle Intervention During Pregnancy on Partners’ Weight</td>
</tr>
<tr>
<td>Wing, Rena</td>
<td>CBPM</td>
<td>NHLBI</td>
<td>Study of Novel Approaches to Weight Gain Prevention-Extension (SNAP-E)</td>
</tr>
<tr>
<td>Wing, Rena</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>Meal Time Interactions and Risk of Obesity in Toddlers</td>
</tr>
<tr>
<td>Wing, Rena</td>
<td>CBPM</td>
<td>NIDDK</td>
<td>12/16 Action for Health in Diabetes Extension Study Research Project</td>
</tr>
<tr>
<td>Yen Matloff, Shirley</td>
<td>Brown</td>
<td>Nat’l Ctr.</td>
<td>Adaptation and Pilot Study of Yoga to Reduce Depression in Adolescents</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complementary and Intr. Health</td>
<td></td>
</tr>
<tr>
<td>Yen Matloff, Shirley</td>
<td>Brown</td>
<td>NIMH</td>
<td>Skills to Enhance Positivity in Suicidal Adolescents</td>
</tr>
</tbody>
</table>
Resident Bios

Rachael Blackman M.D., Ph.D., PGY4 (2018-19); RTP mentor: David Badre, Ph.D.

Dr. Blackman received her M.D. and Ph.D. in Neuroscience from the University of Minnesota where she studied prefrontal neurons and executive control of cognition in monkeys. In the Research Training Program, she added to her repertoire of research techniques and approaches to study cognitive dysfunction in schizophrenia and shifted her focus from animal studies to human research with the mentorship of Drs. David Badre and Noah Philip. Since starting the Research Training Program, she has authored two publications from her graduate work, including first author and co-first author papers in the Journal of Neuroscience (2016) and Neuron (2018). She presented her human data from Brown at the Biennial Schizophrenia International Research Society (2018) and was awarded a competitive pilot grant for her novel research from the Providence VA Center for Neurorehabilitation and Neurotechnology at Brown. This VA-funded grant allowed Dr. Blackman to develop a study testing memory gating deficits in schizophrenia.

From Dr. Blackman: I am passionate about the interface of clinical psychiatric care and neuroscience. As a fourth-year psychiatry resident, I am looking to further my training as a physician scientist post residency.

Yosef Berlow, M.D., Ph.D., PGY3 (2018-19); RTP mentor: Noah Philip, M.D.

Dr. Berlow received his M.D. and Ph.D. in Behavioral Neuroscience from the Oregon Health and Science University where he was a T32 fellow and had an NRSA. He investigated changes in brain tissue composition and function in relation to psychopathology utilizing innovative analysis approaches to MRI data. Dr. Berlow published 10 peer-reviewed papers, including two as first author, and won a number of awards for this work. At Brown, Dr. Berlow is studying computational approaches to predicting response to TMS in PTSD and MDD using functional connectivity-based classification. Since starting the Research Training Program last year, Dr. Berlow has presented his work at the annual meetings of the American College of Neuropsychopharmacology (2017) and co-authored a paper from his Ph.D. work. Dr. Berlow received first prize for his poster at the 20th Annual Brain Research Day at Brown University (2017).

From Dr. Berlow: My research has focused on developing methods to analyze MRI data to investigate subtle changes in brain tissue composition and function with the goal of identifying objective biomarkers of psychiatric and neurological diseases. It is my hope that the identification of objective neuroimaging biomarkers of the pathological processes involved in psychiatric and neurological conditions will lead to advances in our understanding and treatment of these disorders.

Paul Bowary M.D., PGY3 (2018-19); RTP mentors: Benjamin Greenberg, M.D., Ph.D. and Stephanie Jones, Ph.D.

Dr. Bowary received his M.D. from the American University of Beirut, and did a research fellowship in the laboratory of Carl Saab at Brown University. In the Research Training Program, Dr. Bowary is studying the neurophysiologic signatures of and non-invasive neuromodulation treatments for chronic pain. Dr. Bowary won two poster awards for his work at the Brain Sciences Foundation and at the 22nd Annual Lifespan Hospitals Research Symposium. Since joining the Research Training Program, Dr. Bowary has co-authored two manuscripts in the journal Pain (2016, 2016), and he has a first-authored review paper in Psychiatric Clinics of North America (2018).

From Dr. Bowary: In 2015, I had the pleasure to join a brilliant team that exemplifies what Brown is excellent at: interdepartmental collaboration. Dr. Stephanie Jones, Professor of Neuroscience, and Dr. Benjamin Greenberg, Professor of Psychiatry and Human Behavior, have been the supervisors of my work on a human study exploring pain-induced brain oscillations. My ultimate goal is to broaden my translational research aims to target the field of somatic symptom disorders.
Teresa Daniels, M.D., PGY3 (2018-19); RTP mentor: Audrey Tyrka, M.D., Ph.D.

Following her undergraduate study in Neuroscience at the University of Virginia, Dr. Daniels participated in the National Institute of Mental Health Intramural Research Training Award Program. Under the mentorship of Dr. Elisabeth Murray, she studied neuroanatomical networks responsible for reward-driven behavior, utilizing behavioral paradigms with concurrent autonomic recording in non-human primates. She then completed her Master's degree in Anatomy and Neurobiology and her medical training at Virginia Commonwealth University. Working under Dr. Dong Sun, she investigated the contribution of neurogenesis in the hippocampus to cognitive recovery following traumatic brain injury in a rodent model, utilizing behavioral and immunohistochemical methods.

From Dr. Daniels: As a medical student and general psychiatry resident, my clinical experiences underlined the value of the growing body of evidence demonstrating the deleterious impact of adverse childhood experiences and trauma on an individual's mental and physical health. In the Research Training Program, I am working under the mentorship of Dr. Audrey Tyrka. My goal is to elucidate the role of adverse childhood experiences and trauma in physical and mental health through clinical and translational research in order to better serve this patient population.

Shiwen Yuan, M.D., PG2 (2018-19); RTP mentor: Linda Carpenter, M.D.

Dr. Yuan earned his M.D. from Shanghai Medical College of Fudan University and remained for a research fellowship in neuro-oncology and neuroimaging. He completed a visiting research fellowship at the Experimental Therapeutics and Pathophysiology Branch of the National Institute of Mental Health with Carlos Zarate Jr., M.D. and Sarah H. Lisanby, M.D., where he conducted neuroimaging studies of ketamine treatment for major depressive disorder and trained in transcranial magnetic stimulation. Now in his second year of our program, Dr. Yuan is studying neuromodulation approaches to the treatment of mood and anxiety disorders with Dr. Carpenter. As a resident in the Research Training Program, Dr. Yuan has published two peer-reviewed co-authored publications in Scientific Reports (2017) and the Journal of Clinical Psychopharmacology (2018) from his pre-residency work, as well as a review co-authored with Dr. Carpenter in Psychiatric Clinics of North America. This year, Dr. Yuan has presented his work at the Society of Biological Psychiatry, and received an outstanding poster award for his preliminary data at Brown's 2018 Mind Brain Research Day.

From Dr. Yuan: I am fascinated by structural and functional changes of the brain in psychiatric disorders, and how neuromodulation can alter these circuits and elicit treatment effects. With the great opportunities provided by the Research Training Program, I look forward to better understanding the mechanisms of change and finding optimal parameters for applying neuromodulation treatment for different patient groups.

Andrew Fukuda, M.D., Ph.D., PG1 (2018-19); RTP mentor: Audrey Tyrka, M.D., Ph.D., and Linda Carpenter, M.D.

Dr. Fukuda earned his M.D./Ph.D. via the MSTP combined degree program from Loma Linda University. The major focus of his Ph.D. was investigating the role of astrocyte network proteins on edema formation in neurovascular trauma under the mentorship of Dr. Jerome Badaut. Dr. Fukuda focused on Pediatric Traumatic Brain Injury and Ischemic Stroke as the disease models to study the effects of these astrocytic proteins and the potential therapeutic value in modulating them after these injuries. This work resulted in 11 publications in peer-reviewed journals to date, six of which are first/co-first author papers.

From Dr. Fukuda: I am elated to have matched to my top choice, Brown University, for residency where I will have the privilege to continue training via the Research Training Program. At Brown, I will shift gears and focus more on clinical research, studying the short and long-term cognitive and affective effects of childhood trauma and the potential utility of Neuromodulation technologies to address the neuropsychiatric effects of early adversity. I hope to transition into the T32 Child and Adolescent Psychiatry Fellowship at Brown in order to achieve my goal of becoming an Academic Child Psychiatrist.
Biographical Sketches of Selected Research Faculty

This section includes a sampling of biographical sketches of some research faculty from the Department of Psychiatry and Human Behavior (DPHB). We have also included some biosketches of faculty from other departments at Brown (the Departments of Neuroscience, Neurosurgery, Neurology, Molecular and Cell Biology, Engineering, and Cognitive, Linguistic, Public Health and Psychological Sciences) who do research that is relevant to mental health.

As these biosketches convey, our faculty are distinguished in many ways – by their outstanding research contributions, grant funding, publications, honors and awards, contributions to professional organizations, and other scholarly activities. Most are nationally and internationally recognized for their significant contributions to the field of psychiatry.

Sampling of Faculty Researchers:

Steven Rasmussen, M.D.
Professor and Chair

Dima Amso, Ph.D.
Associate Professor, Department of Cognitive, Linguistic and Psychological Sciences

Michael Armey, Ph.D.
Associate Professor

Wael Asaad, M.D., Ph.D.
Associate Professor of Neurosurgery and Neuroscience

David Badre, Ph.D.
Associate Professor, Department of Cognitive, Linguistic and Psychological Sciences

Gilad Barnea, Ph.D.
Professor, Department of Neuroscience

Kevin Bath, Ph.D.
Assistant Professor, Department of Cognitive, Linguistic and Psychological Sciences

Cynthia Battle, Ph.D.
Associate Professor

Beth Bock, Ph.D.
Professor

David Borton, Ph.D.
Assistant Professor, School of Engineering

Willoughby Britton, Ph.D.
Assistant Professor, Department of Psychiatry and Human Behavior and Department of Behavioral and Social Sciences

Larry Brown, M.D.
Professor and Vice Chair

Michael Carey, Ph.D.
Professor

Linda Carpenter, M.D.
Professor

Mary Carskadon, Ph.D.
Professor

Barry Connors, Ph.D.
Professor, Department of Neuroscience

Biosketches of additional research faculty could have been included here, but we have tried to keep this publication a manageable size. A listing of additional DPHB research faculty and their grants are included in this booklet (in the section “DPHB Research Funding”). You can access CVs, biosketches, and other information about research faculty at the Brown University Research website: brown.edu/research

While our faculty’s research and other scholarly accomplishments are impressive, our faculty is also known for their collaborative spirit, accessibility to trainees, and dedication to mentoring. These characteristics make Brown an outstanding environment for residents and other trainees to obtain a research experience.
Daniel Moreno De Luca, M.D., MSc
Assistant Professor (pending)

Theresa Desrochers, Ph.D.
Assistant Professor, Department of Neuroscience and Psychiatry and Human Behavior (courtesy)

Daniel Dickstein, M.D.
Associate Professor

A. Rani Elwy, Ph.D., MSc
Associate Professor (pending)

Justin Fallon, Ph.D.
Professor, Department of Neuroscience

Michael Frank, Ph.D.
Professor, Department of Cognitive, Linguistic and Psychological Sciences

Benjamin Greenberg, M.D., Ph.D.
Professor

Anne Hart, Ph.D.
Professor, Department of Neuroscience

Leigh Hochberg, M.D., Ph.D.
Professor, School of Engineering

Elissa Jelalian, Ph.D.
Professor

Richard N. Jones, ScD
Professor, Department of Psychiatry and Human Behavior and Department of Neurology

Stephanie R. Jones, Ph.D.
Associate Professor (Research) Department of Neuroscience

Christopher Kahler, Ph.D.
Professor and Chair, Department of Behavioral and Social Sciences, School of Public Health

Julie A. Kauer, Ph.D.
Professor, Departments of Molecular Pharmacology, Physiology and Biotechnology and Neuroscience

Karla Kaun, Ph.D.
Assistant Professor, Department of Neuroscience

Gabor Keitner, M.D.
Professor

Daphne Koinis Mitchell, Ph.D.
Professor, Department of Psychiatry and Human Behavior and Department of Pediatrics

W. Curt LaFrance, Jr, M.D., MPH, FAAN, FANPA, DFAPA
Professor, Department of Psychiatry and Human Behavior and Department of Neurology

Barry Lester, Ph.D.
Professor

Diane Lipscombe, Ph.D.
Director, Robert J. and Nancy D. Carney Institute for Brain Science and Professor of Science, Department of Neuroscience

Judy Liu, M.D., Ph.D.
Assistant Professor of Neurology, Assistant Professor of Molecular Biology, Cell Biology and Biochemistry (Research)

Paul Malloy, Ph.D.
Professor

John McGear, Ph.D.
Associate Professor

Elizabeth McQuaid, Ph.D., ABPP
Professor, Departments of Psychiatry and Human Behavior and Pediatrics

Ivan Miller, Ph.D.
Professor

Peter Monti, Ph.D.
Professor, Department of Behavioral and Social Sciences, School of Public Health

Christopher Moore, Ph.D.
Professor, Department of Neuroscience
Eric Morrow, M.D., Ph.D.
Associate Professor, Department of Molecular Biology, Cell Biology, and Biochemistry; Associate Professor, Department of Psychiatry and Human Behavior

Nicole Nugent, Ph.D.
Associate Professor (Research), Departments of Psychiatry and Human Behavior and Pediatrics Brown Medical School

Noah Philip, M.D.
Associate Professor

Lawrence Price, M.D.
Professor

Carl Saab, Ph.D.
Associate Professor, Department of Neuroscience

Stephen Salloway, M.D., MS
Professor, Department of Psychiatry and Human Behavior and Department of Neurology

Jerome Sanes, Ph.D.
Professor, Department of Neuroscience

Ronald Seifer, Ph.D.
Professor

Thomas Serre, Ph.D.
Associate Professor, Department of Cognitive, Linguistic and Psychological Sciences

M. Tracie Shea, Ph.D.
Professor

David Sheinberg, Ph.D.
Professor, Department of Neuroscience

Amitai Shenhav, Ph.D.
Assistant Professor, Department of Cognitive, Linguistic, and Psychological Sciences

Anthony Spirito, Ph.D.
Professor and Vice Chair

Michael Stein, M.D.
Adjunct Professor, Department of Medicine

Laura Stroud, Ph.D.
Professor

Robert Swift, M.D., Ph.D.
Professor

Brian Theyel, M.D., Ph.D.
Assistant Professor

Geoffrey Tremont, Ph.D.
Associate Professor

Wilson Truccolo, Ph.D.
Assistant Professor of Computational Neuroscience Department of Neuroscience

Audrey Tyrka, M.D., Ph.D.
Professor

Lisa Uebelacker, Ph.D.
Associate Professor

Takeo Watanabe, Ph.D.
Professor, Department of Cognitive, Linguistic and Psychological Sciences

Lauren Weinstock, Ph.D.
Associate Professor

Laura Whiteley, M.D.
Assistant Professor

Rena Wing, Ph.D.
Professor

Shirley Yen, Ph.D.
Adjunct Associate Professor

Amin Zand Vakili, M.D., Ph.D.
Assistant Professor

Mark Zimmerman, M.D.
Professor

Caron Zlotnick, Ph.D.
Professor
Steven Rasmussen, M.D.
Professor and Chair

Steven A. Rasmussen, M.D. is the Chair and Mary Zucker Professor in the Department of Psychiatry and Human Behavior at the Alpert Medical School.

Since 1983 my research has focused on increasing our understanding of the biologic basis and treatment of obsessive compulsive disorder (OCD). Currently funded projects include a study of harm avoidance and incompleteness in OC spectrum and anxiety disorders, developing neurosurgical and noninvasive neuromodulatory treatments for OCD, and using gamma knife radiosurgical lesions to understand the role of frontostriatal circuitry in the pathogenesis of OCD.

Dr. Rasmussen has received the Lifetime Achievement Award from the International OCD Foundation for his work as well as the Pioneer in Radiosurgery Award from the Leksell Society.

The author of over 160 peer reviewed publications, he has been continuously funded by the NIMH for the past twenty years for his work in the treatment of obsessive compulsive disorder and neuromodulatory treatment for psychiatric disorders.

Dima Amso, Ph.D.
Associate Professor, Department of Cognitive, Linguistic and Psychological Sciences

Dr. Dima Amso has a BS in Psychology from Tufts University, was trained at Cornell University, and received a Ph.D. in Psychology from New York University in 2005. She then joined the faculty in the Department of Psychiatry at the Weil Medical College of Cornell University, specifically in the prestigious Sackler Institute for Developmental Psychobiology. Since 2010 Dr. Amso has been a member of the faculty of the Department of Cognitive, Linguistic, and Psychological Sciences at Brown University. Her research examines brain and cognitive development in typical and atypically developing populations, with a special emphasis on how environmental variables shape these trajectories. She has authored over 40 scientific publications on the topic and is on the editorial board of three international journals. Dr. Amso holds multiple awards from the National Institutes of Health, Autism Speaks, Brown University's Norman Prince Neuroscience Institute and the Brown Institute for Brain Science, and is a recipient of the James S. McDonnell Scholar Award.

Michael Armey, Ph.D.
Associate Professor

Dr. Armey received his Ph.D. in Clinical Psychology from Kent State University, where he trained with Drs. Janis Crowther and David Fresco. He went on to complete his clinical internship at Brown followed by a postdoctoral fellowship with Ivan Miller, Ph.D., in the Psychosocial Research Program at Butler Hospital, where he trained in treatment development research and suicidology. Dr. Armey joined the faculty in the Department of Psychiatry and Human Behavior in 2012. His research, supported by numerous grants from the National Institute of Mental Health, seeks to develop multimethod models of suicide risk, with the goal of identifying treatment modifiable processes and mechanisms. This research involves the integration of biomarkers, behavioral measures, and ecologically valid assessments of affect, behavior, and cognition with traditional self-report methods to prospectively predict episodes of elevated suicide risk. His research has been published in high-impact scientific journals such as *The Journal of Consulting and Clinical Psychology, Assessment, and Behavior Therapy*.

Wael Asaad, Ph.D., M.D.
Associate Professor of Neurosurgery and Neuroscience Director of Functional and Epilepsy Neurosurgery

Dr. Asaad’s laboratory undertakes a broad array of neurophysiological and behavioral research in humans and nonhuman primates. In particular, they focus on the cognitive neuroscience of the prefrontal cortex and basal ganglia in nonhuman primates, and neuromodulation for movement disorders and psychiatric disease in humans.

In humans, awake neurophysiological recordings during deep brain stimulation surgery (DBS) affords a rare opportunity to learn about how these circuits function in health and disease on the neuronal level, as patients interact with cognitive and motor tasks. The effect of DBS on cognition and motor learning is also studied by having patients perform these tasks in the clinic setting with various DBS stimulation protocols. Correlation of electrophysiology and stimulation with imaging, such as tractography, is also a subject of ongoing work. The lab is also heavily invested in the development of closed-loop neuromodulation systems. A variety of machine learning approaches are applied to better understand the neurophysiological biomarkers of neurologic disease such as Parkinson’s Disease. They also study the effect of lesion procedures (such as laser amygdalo-hippocampotomy for epilepsy or bilateral capsulotomy for intractable obsessive-compulsive disorder) on a variety of cognitive tasks.
In nonhuman primates, the role of the prefrontal cortex and basal ganglia in adaptive behaviors is investigated using large electrode arrays and closed-loop deep brain stimulation. The goal is to understand how different divisions of the prefrontal cortex and basal ganglia contribute to learning, especially when the behavioral contingencies are complex or abstract, and to understand how stimulation at the appropriate times in the appropriate targets might improve or delay learning.

Dr. Asaad is a neurosurgeon specializing in functional neurosurgery for movement disorders and psychiatric disease, as well as in epilepsy surgery. He earned his M.D. from Yale and his Ph.D. in systems neuroscience from MIT before completing neurosurgery residency at the Massachusetts General Hospital. His lab is based across RIH and the main Brown University campus, and involves a talented and dedicated team of undergraduates, graduate students, medical students and post-doctoral fellows.

**David Badre, Ph.D.**  
Associate Professor, Department of Cognitive, Linguistic and Psychological Sciences

Dr. Badre studies neural mechanisms of cognitive control and memory, with a focus on frontal lobe function and organization, with relevance to assessing psychopathology and treatment effects. His mentoring includes work with a DPHB fellow on neural substrates of psychiatric symptoms as well as CLPS postdoctoral fellows and graduate students in the Cognitive Science, Psychology, and Neuroscience graduate programs. Dr. Badre is PI on an R01 and 2 foundation grants, and Co-PI on a second R01. Dr. Badre serves on the editorial boards of Psychological Science, Cognitive Science, and Behavioral Neuroscience, and he is Section Editor covering “Executive Function and Cognitive Control” for Neuropsychologia. He is a standing member of the Cognitive and Perception Study Section at NIH. His research is supported by NINDS and NIMH at the NIH and has been recognized by early career awards, including an Alfred P. Sloan Foundation Fellowship in Neuroscience, a James S. McDonnell Scholar Award in Understanding Human Cognition, and the Cognitive Neuroscience Society Young Investigator Award.

**Gilad Barnea, Ph.D.**  
Sidney A. Fox and Dorothea Doctors Fox Associate Professor of Ophthalmology, Visual Sciences, and Neuroscience, Department of Neuroscience

Dr. Gilad Barnea has multidisciplinary training. He received his Ph.D. in Pharmacology from New York University, where he trained with Dr. Joseph Schlessinger, a leader in the Signal Transduction field. For his postdoctoral fellowship, Dr. Barnea moved to Columbia University, where he worked for 10 years with the Nobel laureate Dr. Richard Axel on the molecular underpinnings of the olfactory system. Dr. Barnea joined the faculty of the Department of Neuroscience at Brown University as an assistant professor in 2007, and he was promoted to associate professor with tenure in 2015. The Barnea lab uses mouse and fly models to study the chemical senses, olfaction and gustation. The main objective of the lab is to understand how the brain forms an internal representation of the environment and how this representation serves as the basis for the generation of innate versus learned behavioral responses. To address this question, the Barnea lab has developed a new method for tracing and manipulation of neural circuits, a technique viewed by many neuroscientists as the Holy Grail. The Barnea lab is using this new technique to study circuits beyond the chemosensory systems. Dr. Barnea has published numerous papers in leading scientific journals such as Science, Cell, Neuron and PNAS. Dr. Barnea’s research is supported by several research grants from the National Institutes of Health. He has received several awards and honors, including Pew Scholar in the Biomedical Sciences and Kavli Fellow from the National Academy of Science. He also received twice the EUREKA award from the National Institutes of Health. Dr. Barnea was awarded twice the Innovation award from Brown Institute for Brain Science. Dr. Barnea believes that at this stage of his career, training others is a major way to contribute to society and to pay back for the investments of all the great trainers that he has been fortunate to have.

**Kevin Bath, Ph.D.**  
Assistant Professor, Department of Cognitive, Linguistic and Psychological Services

Kevin Bath, Ph.D. is an Assistant Professor in CLPS and is also the director of the Rodent Neurodevelopmental and Behavioral testing facility at Brown University (rndb.clps.brown.edu). Dr. Bath’s program of research examines the impact of early life experiences on neurobehavioral development, particularly socio-emotional development. A core goal of his research is to understand how early life stress alters the trajectory of basic learning processes and its impact on cognitive and emotional outcomes. He is further interested in identifying concomitant deviations in basic neurodevelopmental events that may underlie adverse outcomes. Along with traditional behavioral testing paradigms, Dr. Bath collaborates with Dr. Thomas Serre and they have worked together to develop powerful computer vision tools, to continuously and unobtrusively track rodent behavioral development. This approach
represents a revolutionary shift in behavioral testing, providing comprehensive, ethologically relevant, and more readily translatable measures. The ultimate goal of Dr. Bath's work is to improve our understanding of factor that guide typical development of learning and emotional processing and to identify factors that may confer risk or resilience to disease. This work requires an interdisciplinary and vertically integrated approach across species and across phases of development. His training in psychology, expertise in rodent behavior, and molecular and genetic techniques provide novel opportunities and collaborations to examine the effects of these manipulations across multiple levels of analysis and to relate these findings to the human condition.

Cynthia L. Battle, Ph.D.
Associate Professor

Dr. Cynthia Battle is a licensed clinical psychologist and Associate Professor of Psychiatry and Human Behavior at the Warren Alpert Medical School. She received her M.S. and Ph.D. degrees from the University of Massachusetts, Amherst, and completed her clinical psychology internship and research fellowship at Brown. Dr. Battle is a member of the faculty both at Butler Hospital, within the Psychosocial Research Program, and at Women and Infants’ Hospital, within the Division of Women's Behavioral Health. Much of Dr. Battle’s research focuses on women's mental health during pregnancy and the postpartum period, including development and evaluation of non-pharmacologic interventions for women with perinatal mood disorders and other mental health conditions. She is interested in developing approaches to mental health care that are more accessible and acceptable to perinatal women, including women from diverse racial, ethnic, and socio-economic backgrounds. Dr. Battle's research has been funded by grants from the National Institute of Mental Health, the National Institute of Nursing Research, and National Institute of Child Health and Human Development, the Brown / Women and Infants' Hospital Center for Excellence in Women's Health, and the Radcliff Institute of Harvard University. Dr. Battle is currently PI of three NIH-funded research grants focused on women's perinatal mental health and serves as a collaborator on several other projects. In recent years she has received awards from the North American Society for Psychosocial Obstetrics and Gynecology and the North American Society for Obstetric Medicine. She is an active member of national and international organizations focused on women's mental health, participates regularly on NIH grant review panels, and serves on the editorial board for the Archives of Women's Mental Health.

Beth Bock, Ph.D.
Professor

Beth Bock, Ph.D. is a Professor in the Department of Psychiatry and Human Behavior at the Alpert Medical School, and Professor of Behavioral and Social Sciences at the Brown University School of Public Health. She is also a Senior Research Scientist at The Miriam Hospital Centers for Behavioral and Preventive Medicine. Her primary research interests are in examining innovative interventions to aid smoking cessation, and exercise promotion, and in the use of mobile and computer-based technologies for behavior change. She has been Principal Investigator (PI) on numerous NIH-funded studies including research examining the use of text message delivered interventions for smoking cessation (R21-DA027142, and R44-DA041904), and alcohol harm reduction (R21-AA021014, and R42-AA026788). She is PI of studies examining yoga as a complementary therapy for smoking cessation (R01 AT006948), and as an alternative form of exercise for adults with type-2 diabetes (R21AT008810), and she recently completed a study testing the efficacy of exercise videogames compared to standard exercise for reduction of cardiovascular risk factors (R01 HL109116). Dr. Bock also MPI (with C. Deutsch) of a study developing a smartphone app for alcohol risk reduction designed for community college students (R42-AA026788). Dr. Bock's research includes collaborations with investigators at Rhode Island Hospital, Butler Hospital and the Brown School of Public Health investigating topics such as positive psychology applied to smoking cessation, exercise promotion, and investigations of yoga. She is also MPI (along with Dr. Shira Dunsiger) of a study funded by Brown's Center for Translational Research entitled: "Exploring Second-to-Second Exercise Intensity and Disease Risk Outcomes," that will examine variability in heart rate while exercising among persons using active videogames versus standard aerobic exercise.

Dr. Bock's work has demonstrated the effectiveness of computer tailored interventions for smoking cessation delivered in medical settings (Bock et al., 2010) and over the internet (Bock et al., 2008), as well as smoking cessation treatments designed to be delivered through text messaging (Bock et al., 2013, Bock, Rosen et al., 2015). She and her colleagues have pioneered novel methodologies of developing intervention content to be culturally consistent with groups of technology users (Bock, Rosen et al., 2014, 2015). Dr. Bock has helped to shape the science of behavioral interventions by serving on the NIH study section Psychosocial Risk and Disease Prevention Study Section (PRDP) and has served on the faculty promotions committee for the DPHB and the committee for medical faculty affairs (CMFA) at the medical school.
David Borton, Ph.D.
Assistant Professor, School of Engineering

David Borton received his B.S. in Biomedical Engineering from Washington University in St. Louis in 2006 and his Ph.D. in Bioengineering from Brown University in 2012.

David Borton is an Assistant Professor of Biomedical Engineering at Brown University School of Engineering (SOE), the Brown Institute for Brain Science (BIBS), and a Biomedical Engineer at the Providence Veterans Affairs Center for Neurorestoration and Neurotechnology (CfNN). Prof. Borton leads an interdisciplinary team of researchers focused on the design, development, and implementation of novel neural recording and stimulation systems. His research enables basic science innovation through technological integration and implementation of novel devices. Prof. Borton currently focuses on engineering new tools for wireless interrogation of the nervous system with a goal of untangling the underpinnings of neuromotor and neuropsychiatric disease and injury. Prof. Borton was recently awarded the Defense Advanced Research Projects Agency (DARPA) Young Faculty Award in 2015 and the DARPA Director’s Award in 2017. His laboratory is currently supported by the U.S. Department of Defense, National Institute of Neurological Disorders and Stroke, the National Institute of Mental Health, the International Research in Paraplegia Foundation, and several industry contracts. His work was featured in the journal *Nature* demonstrating that through wireless neurotechnology, brain recordings can be used to help spinal cord injury subjects walk again. He performed his post-doctoral research at the Ecole Polytechnique in Lausanne Switzerland (EPFL) under a Marie Curie International Fellowship.

Willoughby Britton, Ph.D.
Assistant Professor, Department of Psychiatry and Human Behavior and Department of Behavioral and Social Sciences

Dr. Britton earned a B.A. in Neuroscience from Colgate University in 1996 and a Ph.D. in Clinical Psychology form the University of Arizona in 2007. She is the recipient of two National Research Service Awards (NRSA) and a Career Development Award (CDA) from NIH. She is currently the Director of Brown's Clinical and Affective Neuroscience Laboratory (brown.edu/research/labs/britton) which investigates the psychophysiological (EEG, EMG, EKG) and neurocognitive effects of cognitive training and mindfulness-based interventions for mood and anxiety disorders. Research questions investigate which cognitive training practices are best or worst suited for which types of conditions and why, moderators of treatment outcome, practice-specific effects, and adverse effects. Current NIH-funded studies include a 3-armed RCT entitled “Dismantling Mindfulness” that compares the effects of three different types of meditation training programs on pre-frontal cortex functioning in depression; and a collaborative infrastructure grant (U12) with Harvard and UMASS entitled “Mindfulness Influences on Self-Regulation: Mental and Physical Health Implications”. An interdisciplinary qualitative study entitled “The Varieties of Contemplative Experience” is investigating under-reported and potentially challenging, distressing or impairing meditation-related effects.

Larry K. Brown, M.D.
Professor and Vice Chair

Larry K. Brown, M.D. is the Director of the Division of Child and Adolescent Psychiatry. His research focuses on HIV risk and the efficacy of HIV prevention treatments among adolescents and young adults and improving medical adherence and the mental health of those living with HIV. He is the Principal Investigator of several major projects funded by National Institute of Mental Health (NIMH) and National Institute of Child Health & Human Development (NICHD). He is also the Program Director of a NIMH training program in adolescent and young adult biobehavioral HIV research. One of Dr. Brown's NIMH-funded adolescent HIV prevention projects developed and evaluated the impact of a family-based intervention to improve family communication and parental monitoring. It was designated an Evidence-based Intervention by the CDC in 2016. His further NIMH projects have transformed it into a computer-based intervention, and an ongoing project is adapting it for non-heterosexual adolescent males and their parents. His HIV prevention program in therapeutic schools received the Reiger Award from the American Academy of Child and Adolescent Psychiatry in 2011. Several projects are focused on adolescents and young adults living with HIV. His studies in AIDS Trials Networks are testing interventions to reduce depression and substance use. Also, NIH-funded projects are developing and testing mobile game apps to improve medical adherence for youth living with HIV and for pre-exposure prophylaxis for those at high-risk. The laboratory provides training in HIV clinical research for medical students, psychiatry residents, clinical psychology interns and post-doctoral fellows.
Michael P. Carey, Ph.D.
Professor

Michael P. Carey, Ph.D. is the Director of the Centers for Behavioral and Preventive Medicine at the Miriam Hospital, and a Professor, Research Scholar Track, in the Departments of Psychiatry and Human Behavior (Medicine) and Behavioral and Social Sciences (Public Health). He is a licensed clinical psychologist, an elected member of the International Academy of Sex Research, and a Fellow of the American Psychological Association, the Association for Psychological Science, and the Society for Behavioral Medicine.

Dr. Carey’s research focuses on health promotion and disease prevention through behavior change. He has conducted research on sexual health promotion and risk reduction, tobacco and alcohol use, stress management, and coping with chronic illness (e.g., medication adherence). Currently, Dr. Carey is Principal Investigator (PI) or Co-PI on two R34s and a R01. One of the R34s, the Health Improvement Project- Providence, is investigating the use of mindfulness training to promote HIV medication adherence. The second R34 addresses alcohol use and sexual risk behavior, and is a collaboration involving colleagues at Brown University and Planned Parenthood of Southern New England. The R01 is a meta-analytic investigation of the use of stress management interventions in the context of four chronic diseases or conditions. He is a Co-Investigator on several other NIH, Uniformed Health Services, and Foundation-sponsored projects. Over his career, Dr. Carey has been PI or Co-Investigator on more than 60 grants.

Dr. Carey has published approximately 400 papers and chapters and 2 books. His work has been cited more than 26,000 times (h index = 87). Dr. Carey has reviewed for 80 professional journals, served on numerous editorial boards, reviewed for multiple NIH institutes, foundations, and for the Centers for Disease Control and Prevention. He has served on the Board of Directors of the Society for Behavioral Medicine (SBM) and the Health Psychology Division of the American Psychological Association, and has received special service awards from SBM and Syracuse University.

As an educator, Dr. Carey has taught undergraduate and graduate students, and served as the primary advisor for doctoral students, postdoctoral fellows, and junior faculty. Many of his undergraduate mentees have gone on to graduate or medical school, and all of his doctoral students and fellows have held primary or secondary academic appointments, or work in research grant administration. Many former students have earned grants from the NIH and other sponsors. In 2018, he received the Department's Faculty Mentoring Award.

Linda Carpenter, M.D.
Professor

Linda L. Carpenter, M.D. is a Professor of Psychiatry in the Alpert Medical School of Brown University and Chief of the Mood Disorders Program at Butler Hospital. Dr. Carpenter completed her undergraduate degree in Honors Psychology at the University of Michigan, and subsequently worked as a research assistant in the Mood Disorders Research Program at the Western Psychiatric Institute in Pittsburgh, concurrently completing post-baccalaureate premedical coursework at the University of Pittsburgh. She obtained her M.D. from the University of Pennsylvania in 1992 and went on to complete an internship in internal medicine, a residency program in psychiatry, and a clinical neuroscience research fellowship at Yale University in 1997. She joined the faculty at Brown in 1997.

She has been recognized for her work investigating the neurobiology of, and new treatments for, major depression and other mood and anxiety disorders. She led a 10-year, federally funded translational research program focusing on the development of laboratory biomarkers signaling risk for mood/anxiety disorders, and understanding the impact of early life stress on adult biology. She has conducted a number of randomized clinical trials sponsored by industry and NIH, investigating investigational drugs and devices for treating depression. Dr. Carpenter has also been principal investigator on trials examining the efficacy and safety of novel noninvasive neuromodulation treatments, including Vagus Nerve Stimulation (VNS), Deep Brain Stimulation (DBS), Transcranial Magnetic Stimulation (TMS) and Transcranial Direct Current Stimulation (tDCS) for patients with major depression and/or anxiety disorders. She is Director of the TMS Clinic and Butler Neuromodulation Research Facility, and works with a variety of Brown-based faculty who incorporate noninvasive brain stimulation techniques into their clinical research. Recently she has leading clinical trials using “second generation” noninvasive brain stimulation devices and is conducting pilot work developing EEG biomarkers to optimize and individually customize neuromodulation therapies for depression.
Mary A. Carskadon, Ph.D.
Professor

Mary A. Carskadon, Ph.D. is an authority on adolescent sleep and circadian rhythms. Dr. Carskadon serves as director of the Chronobiology and Sleep Research Laboratory at Bradley Hospital and is a Professor of Psychiatry and Human Behavior at the Alpert Medical School. Carskadon’s early research with her graduate mentor, William C. Dement, culminated in the development and application of a standardized measure for daytime sleep tendency, the multiple sleep latency test. A major focus of Dr. Carskadon’s scientific activities is research examining interrelations between the circadian timing system and sleep/wake patterns of children, adolescents, and young adults. Her findings have raised public health issues regarding the consequences of insufficient sleep for adolescents as well as concerns about early starting times of schools. Her work has affected education policy, prompting the AAP and others to promote later school timing for adolescents and many school districts to delay school start times.

Carskadon’s current research includes an evaluation of how sleep and circadian timing influence smell, taste, food choices, and food consumption in overweight and normal weight teens and development of “smart lighting” to improve academic outcomes in secondary school students. Proposed new projects seek to (1) measure DNA methylation and genotype with observational phenotyping and experimental interventions in young adults (with Dr. McGearry) and test genes identified in a model organism, *C. elegans* (with Dr. Anne Hart); (2) measure sleep and next-day cognitive effects of serial nights of alcohol use in adults (with Dr. McGearry); (3) measure the associations of salivary amylase and food intake at different circadian phases; (4) evaluate the impact of chronic and acute caffeine ingestion on sleep bio-regulation in middle-school-aged children; (5) examine (with Dr. Koinis-Mitchell) sleep/health disparities in children with asthma.

Dr. Carskadon is a distinguished alumna and honorary degree-holder of Gettysburg College and holds an earned doctorate in neuro- and bio-behavioral sciences from Stanford University, with a specialty in sleep research. Dr. Carskadon has received awards from several national organizations recognizing her scientific, educational, and public policy contributions. She is an elected Fellow of the Association for Psychological Science and of the American Association for the Advancement of Science.

Barry Connors, Ph.D.
Professor, Department of Neuroscience

Dr. Connors studies the cerebral cortex, the thalamus, and their interactions, with an emphasis on the physiological properties of their neurons, synapses, and local circuits, especially as they relate to synchrony and rhythms of the forebrain and the neural mechanisms of seizures and neurodevelopmental disorders. Among his former pre- and postdoctoral trainees, 18 have successfully gone on to faculty positions in Neuroscience and nearly all remain in scientific careers. He was a mentor of one of the Pilot Program residents. Dr. Connors is PI or co-PI of research grants from NIH, NSF, the Simons Foundation, and the Keck Foundation.

Daniel Moreno De Luca, M.D., MSc
Assistant Professor (pending)

Intrigued by the genetic basis of neuropsychiatric disorders with high heritability, Dr. Moreno De Luca combines his expertise in clinical psychiatry and neurogenetics to focus on the genetic underpinnings and translational implications behind autism and other neurodevelopmental disorders. He received his M.D. from the Universidad Industrial de Santander, followed by his Master’s in Neuroscience at the Université Pierre et Marie Curie – Sorbonne Universités, and postdoctoral fellowship in neurogenetics at Emory University. He then completed his psychiatry training at Yale and joined the Child and Adolescent Psychiatry Fellowship at Brown. He specifically studies the role of highly penetrant rare genetic variants (copy number variants and single nucleotide variants) as risk factors for neuropsychiatric disorders and how they shape and may ultimately impact the neurobehavioral profile and clinical management of people who bear them. Together with his collaborators, he identified the 17q12 deletion as a risk factor for autism and schizophrenia by pulling together genetic data from over 70,000 people worldwide, and has expanded his work on this and other CNVs within the context of the Simons Foundation and the Psychiatric Genetics Consortium. He is now working closely with Dr. Eric Morrow and the Department of Psychiatry and Human Behavior at Brown within the framework of the newly established Hassenfeld Child Health Innovation Institute to oversee the initiatives in genetics and precision medicine for autism spectrum disorders.
**Theresa Desrochers, Ph.D.**  
Assistant Professor, Department of Neuroscience, and Psychiatry and Human Behavior (courtesy)

Dr. Theresa Desrochers has cross-discipline and cross-species training. She received her Ph.D. in Neuroscience from the Massachusetts Institute of Technology in 2011. There she trained with Dr. Ann M. Graybiel, Institute Professor, who is a recipient of the National Medal of Science and an expert in the field of Basal Ganglia research. During Dr. Desrochers’ dissertation work, she co-developed a new method of performing high-density, reconfigurable recordings on awake-behaving nonhuman primates. This system, published in the Journal of Neurophysiology, overcame many existing technical challenges in the field and is capable of recording from the same small brain area across days and of simultaneously recording from multiple brain areas. Further, this recording system enabled Dr. Desrochers to perform experiments that were unique in the nonhuman primate literature and examined neural activity in the Basal Ganglia during naturalistic habit formation, published in Neuron and PNAS. For her postdoctoral fellowship, Dr. Desrochers worked with Dr. David Badre at Brown University, a leader in the field studying human Executive Function. There she discovered a novel brain dynamic that was necessary for the sequential executive functions, published in Neuron. Dr. Desrochers joined the faculty of the Department of Neuroscience at Brown University in the fall of 2016. The Desrochers lab uses human and nonhuman primate models to investigate the neural underpinnings of sequential control. Work in the lab focuses on explicitly addressing these questions using a cross-species approach, which is rare in both human and nonhuman primate research. Current experiments are focused on using nonhuman primate fMRI, a technique that only a few labs are able to use, to explicitly bridge between human fMRI and nonhuman primate neural recordings and directly examine functional homology between the species. Dr. Desrochers’ work has been supported by grants from the National Institutes of Health and the National Science Foundation. She has twice been awarded the Innovation Award from the Brown Institute for Brain Science. Dr. Desrochers is focused on training others to bring creative paradigms and combine methodologies to tackle research questions on human cognition.

**Daniel Dickstein, M.D.**  
Associate Professor

Daniel Dickstein, M.D. is an Associate Professor in the Department of Psychiatry and Human Behavior (DPHB; primary) and the Department of Pediatrics (secondary). Board certified in the three fields of pediatrics, adult psychiatry, and child psychiatry, he serves as the Associate Director for Research at Bradley Hospital.

In addition, Dr. Dickstein is the Director of Bradley Hospital’s Pediatric Mood, Imaging, and NeuroDevelopment Program (PediMIND).

The goal of the PediMIND program is to advance our understanding of the brain and behavior mechanisms (i.e., scans and tests) of psychiatric illnesses across development.

This work includes studying children and adults with bipolar disorder, an ongoing trial of cognitive remediation “brain training” in bipolar youth, plus studies of youth engaged in non-suicidal self-injury, suicide attempters, ADHD, and anxiety disorders.

Dr. Dickstein also serves as co-investigator and/or mentor on grants involving the use of neuroimaging and/or behavioral tasks in patients with psychiatric illness across the lifespan from children through adults.

To learn more, email Dr. Dickstein (Daniel_Dickstein@Brown.edu). Or, visit the PediMIND Program website: www.PEDIMIND.org.

**A. Rani Elwy, Ph.D., MSc**  
Director, Implementation Science Core  
Associate Professor (pending)

Dr. Elwy is a health psychologist, health services researcher and an implementation scientist who examines 1) patients’ access to and uptake of mental health care and complementary and integrative health services, and 2) communication between patients, families and providers. Specific projects as PI or Site PI include predicting patients’ treatment seeking for a new episode of depression from their illness perceptions; establishing an evidence-base for mantram repetition and yoga as first-line treatments for depression, posttraumatic stress disorder, and chronic low back pain; developing a translational tool, the Essential Properties of Yoga Questionnaire (EPYQ), to measure yoga therapy; using social network analysis to develop and operationalize an implementation strategy; and investigating and improving large-scale adverse event disclosures in a large integrated healthcare system. Dr. Elwy is currently the co-director of the VA’s
Complementary and Integrative Health Evaluation Center, funded by the VA Office of Patient Centered Care and the VA Quality Enhancement Research Initiative (QUERI). Her research has also been funded by the Department of Veterans Affairs, Health Services Research and Development (HSR&D) service and the Clinical Sciences Research and Development (CSR&D) service; and the NIH’s National Center for Complementary and Integrative Health (NCCIH). Dr. Elwy received the VA HSR&D Best Research Paper Award in 2017 for her work on examining surgeons’ communication with patients and families about unanticipated surgical events and the impact of this communication on surgeons’ well-being, published in JAMA Surgery.

Justin Fallon, Ph.D.
Professor, Department of Neuroscience

Dr. Fallon studies developmental neurobiology and the mechanisms underlying neurological disease. His laboratory focuses on neuromuscular disorders including Muscular Dystrophy and ALS. Dr. Fallon has been an active mentor for many years, and many pre- and postdoctoral trainees are now in faculty positions. Dr. Fallon is funded by an NIH U01 grant and the ALS Finding a Cure Foundation.

Michael Frank, Ph.D.
Edgar L Marston Professor of Department of Cognitive, Linguistic and Psychological Sciences

Michael J. Frank, Ph.D. is Edgar L. Marston Professor of Cognitive, Linguistic and Psychological Sciences and Psychiatry and Human Behavior and is affiliated with the Carney Institute for Brain Science. He directs the Brown Initiative for Computation in Brain and Mind, http://compneuro.clps.brown.edu and his own Laboratory for Neural Computation http://lnccbrown.com. He received his Ph.D. in Neuroscience and Psychology in 2004 at the University of Colorado, following undergraduate and master’s degrees in electrical engineering and biomedicine (Queen’s University (Canada) and University of Colorado).

Dr. Frank’s work focuses primarily on theoretical models of frontostriatal circuits and their modulation by dopamine, especially in terms of their cognitive functions and implications for neurological and psychiatric disorders. The models are tested and refined with experiments involving pharmacological manipulation, deep brain stimulation, EEG, fMRI and genetics. Honors include Kavli Fellow (2016), the Cognitive Neuroscience Society Young Investigator Award (2011), the Janet T Spence Award for early career transformative contributions (Association for Psychological Science, 2010) and the DG Marquis award for best paper published in Behavioral Neuroscience (2006). Dr Frank is a senior editor for eLife, associate editors for Behavioral Neuroscience and the Journal of Neuroscience, and member of Faculty of 1000 (Theoretical Neuroscience section).

Benjamin Greenberg, M.D., Ph.D.
Professor

Dr. Greenberg’s background includes a BA in Psychology from Amherst College, a Ph.D. in Neurosciences from the University of California, San Diego, an M.D. from the University of Miami, training in neurology at Columbia University, and a psychiatry residency at Johns Hopkins Hospital. After residency, he became Chief of Adult Obsessive-Compulsive Disorder (OCD) Research in the Laboratory of Clinical Science at the National Institute of Mental Health. Working with NIH colleagues in neurology and psychiatry, he initiated studies in OCD and related conditions using Transcranial Magnetic Stimulation (TMS) in the 1990’s.

In 2000, Dr. Greenberg joined the OCD Research Group at Butler Hospital and Brown Medical School, where his main research has been developing surgical or noninvasive treatments in neuropsychiatry. He has led a multicenter trial of deep brain stimulation for intractable OCD, and related mechanistic studies as co-Director of two NIMH-funded Translational Research Centers on the brain circuitry of OCD. His work in surgical therapies also includes studies of gamma knife ventral capsulotomy for OCD.

Since 2013, when Dr. Greenberg joined the CfNN at the Providence VA Medical Center (PVAMC), noninvasive methods have again become a major focus of interest. These methods include TMS and transcranial DC and AC electrical stimulation (tDCS and tACS). The work focuses on testing device-based treatments in chronic pain, PTSD, as well as OCD and Tourette syndrome. For pain, a research goal is reducing the suffering associated with chronic pain by modulating the relevant brain circuitry. Across conditions, the effort aims to develop brain stimulation methods to improve the response to behavioral therapies in pain, PTSD, OCD, and Tourette syndrome. The CfNN, together with resources at Brown University and its affiliated hospitals, provides the environment for collaborative translational research using brain stimulation, neuroimaging, neuroanatomy, neurophysiology, and cognitive neuroscience to better understand the neurocircuitry of these and other illnesses with the
ultimate goals of enhancing rehabilitation and relieving suffering in individuals affected by these serious conditions. This work is greatly aided by leadership, staff, and research support infrastructure of the Center for Neurorestoration and Neurotechnology (CfNN) at the PVAMC, which Dr. Greenberg co-directs and which was renewed in 2018 for a second five-year term. The CfNN continues to host DPHB research residents at all PG levels.

**Anne Hart, Ph.D.**

Professor, Department of Neuroscience

Dr. Hart is an innovative researcher who uses model organisms to understand neurodegenerative disease and sleep. She received her Ph.D. in Neuroscience from UCLA, where she trained with Dr. Larry Zipursky. For her postdoctoral fellowship, Dr. Hart moved to Harvard Medical School and Massachusetts General Hospital, where she worked for 3 years with Dr. Joshua Kaplan using the nematode C. elegans to study mechanosensation and sensory encoding. Dr. Hart joined the faculty of Harvard Medical School and established her own laboratory at Massachusetts General Hospital in 1996. She was promoted to Associate Professor in 2005. In 2009, she moved her research group to Brown University and joined the Department of Neuroscience, where she was promoted to Professor in 2001. Dr. Hart's research group was the first to develop an explicit *C. elegans* model of human neurodegenerative disease in 1999 and to establish that genetic tools available in this small invertebrate organism could be to identify pathways critical for human pathology. Dr. Hart also played a pivotal role establishing the new field of *C. elegans* sleep research. The two main objectives of the Hart lab are 1) to understand how motor neurons die in Spinal Muscular Atrophy and Amyotrophic Lateral Sclerosis and 2) to understand the mechanisms underlying sleep, including the response to inadequate sleep. To address these questions, the Hart lab uses cutting genome editing techniques, classical genetic strategies, and a deeply collaborative approach. Dr. Hart's group publishes papers in leading scientific journals, including *Neuron*, *PLOS Biology*, *eLife*, *Current Biology*, and *PNAS*. Her research group has been supported the National Institutes of Health, the ALS Association, the Whitehall Foundation, and the Ellison Medical Foundation. She has received several awards and honors, including designation as a Searle Scholar and mentoring awards at both Harvard Medical School and Brown University. Dr. Hart is committed to both research and education. The number of students and fellows in her group is intentionally limited to facilitate mentoring and training.

**Leigh Hochberg, M.D., Ph.D.**

Professor, School of Engineering

Prof. Hochberg's neurotechnology research focuses on restoring communication, mobility, and independence for people with paralysis or limb loss and on understanding cortical neuronal ensemble activities in neurologic disease. The technology he and his colleagues are developing for restoring movement will also be used for the next generation of devices to treat psychiatric disorders. Dr. Hochberg's research is funded by a variety of federal and foundation sources, including an R01 grant from NIDCD, a UH2 grant from NINDS, and a Merit Review Award from the Department of Veterans Affairs.

Prof. Hochberg has additional appointments as Neurologist at Massachusetts General Hospital, and Senior Lecturer on Neurology at Harvard Medical School. He is the Sponsor Investigator for the BrainGate2 Clinical Trial and also directs the Center for Neurorestoration and Neurotechnology at Providence VA Medical Center, and the Center for Neurotechnology and Neurorecovery at Massachusetts General Hospital.

**Elissa Jelalian, Ph.D.**

Professor

Dr. Elissa Jelalian's research focuses on weight regulation and development of behavioral interventions for overweight/obese children and adolescents. She has been continuously funded by NIH to develop and test innovative interventions that examine the role of peers and parents in adolescent weight control. Her current research focuses on dissemination of pediatric weight control interventions to community settings and development of obesity prevention interventions for at-risk children. A long-range goal of her programmatic research is to design more effective weight control prevention and intervention strategies for children, adolescents, and their families.

**Richard N. Jones, Sc.D**

Professor, Department of Psychiatry and Human Behavior and Department of Neurology

Dr. Jones is an epidemiologist with a substantive research interest in cognitive aging, dementia, delirium and aging and mental health. He conducts research in cognitive aging and cognitive or brain reserve. He has special interest in the effect of environmental and experiential influences on adult cognitive development. His main methodologic research is directed at the application of psychometric and latent variable models such as item response theory
and structural equation models in the area of mental and cognitive health and aging. Dr. Jones is also the Director of the Quantitative Science Program of the Department of Psychiatry and Human Behavior, the Department of Neurology, the Norman Prince Neuropsychiatric Institute of Rhode Island Hospital, and the VA Center of Excellence for Neurorestitution and Neurotechnology of the Providence Veterans Administration Medical Center. He serves as senior associate editor for *Alzheimer’s & Dementia: Diagnosis and Disease Monitoring*, biostatistics editor for *Alzheimer’s & Dementia*, and as an assistant editor for biostatistics at the *Journal of the American Geriatrics Society*.

**Stephanie R. Jones, Ph.D.**
Associate Professor (Research)
Department of Neuroscience

Dr. Jones uses her background in dynamical systems theory mathematics and computational neural modeling to study neural dynamics in health and disease. She is trained in magnetoencephalography (MEG) and electroencephalography (EEG) imaging and currently uses computational modeling techniques to bridge the critical gap between the non-invasive imaging observables and the underlying microscopic cellular and network level mechanisms. She has developed a unique model of a thalamocortical circuit that is designed to accurately reflect the biophysics underlying human MEG/EEG signals. Her group is applying the model to delineate the role of specific cell types and circuits in controlling neocortical rhythmicity and investigating the impact of these rhythms on sensory and motor function. A new research direction of her lab is to understand the impact of invasive and non-invasive brain stimulation techniques (e.g., DBS, TACS, TMS) on circuit dynamics with a goal of developing novel stimulation paradigms to improve disrupt function. Her current projects and interest include application of the model to investigate the neural dynamics underlying sensory perception, attention, and meditation, and neural pathologies including Chronic Pain, Parkinson’s Disease and Essential Tremor. She works closely with clinicians and animal neurophysiologist to develop data constrained models that are translationally relevant. Dr. Jones is also currently applying her methods to improve rehabilitation in Veterans with an affiliate appointment at the Center for Neurorestitution and Rehabilitation at the Providence Veterans Administration Medical Center.

**Christopher Kahler, Ph.D.**
Professor and Chair, Department of Behavioral and Social Sciences, School of Public Health

Dr. Kahler’s work focuses on (a) the development of novel smoking cessation treatments, (b) the treatment of combined heavy drinking and smoking, and (c) the role of alcohol in the treatment of HIV infection. He is the Scientific Director of Brown’s NIAAA-funded Alcohol Research Center on HIV (ARCH) and PI of an ARCH research component evaluating behavioral interventions to reduce heavy drinking in HIV-infected men who have sex with men (MSM). He also is PI of an NIAAA-funded behavioral science and biostatistics resource core that supports research on alcohol and HIV outcomes, and implementation and evaluation of behavioral interventions to reduce drinking in people living with HIV. He is MPI of an NIAAA-funded project that is developing an electronic intervention for heavy drinking MSM who are receiving HIV testing. In addition, he is PI of an NCI-funded randomized controlled trial evaluating the efficacy of positive psychotherapy for smoking cessation enhanced with text messaging and of an NIAAA-funded treatment development study that is testing a website for smoking cessation that will incorporate brief alcohol intervention for heavy drinking smokers. He has published over 250 peer-reviewed publications and has been a mentor to numerous trainees in the Brown Center for Alcohol and Addiction Studies.

**Julie A. Kauer, Ph.D.**
Sidney A. Fox and Dorothea Doctors Fox Professor of Ophthalmology, Visual Sciences and Neuroscience; Departments of Molecular Pharmacology, Physiology and Biotechnology and Neuroscience

Dr. Julie Kauer is a synaptic physiologist with research interests in cellular mechanisms underlying drug addiction and pain. Her lab utilizes optogenetic and electrophysiological tools and brain slice recordings to understand how synapses undergo plastic changes during environmental insults. She has recently described novel forms of synaptic plasticity at inhibitory synapses in the midbrain associated with relapse, and at inhibitory synapses in the spinal cord associated with inflammatory pain. Dr. Kauer is a co-director of the Brown Institute for Brain Science Center on the Neurobiology of Cells and Circuits. She has served as Associate Editor for the Journal of Neuroscience and was a member of the APS Editorial Board of Physiology, and currently serves on the Editorial boards of the Journal of Neurophysiology and Physiological Reviews. She was the elected Chair of the
Gordon Research Conference on Synaptic Transmission in 2006, and was an invited Special Lecturer at the annual Society for Neuroscience meeting in 2008. She has served on the NIH study section, MNPS, and most recently on the Board of Scientific Counselors for NINDS. She was elected Fellow of the American Association for the Advancement of Science in 2012 in recognition of her work on synaptic function.

Karla Kaun, Ph.D.
Assistant Professor, Department of Neuroscience

Dr. Karla Kaun received a BSc in Psychology from the University of British Columbia, and a Ph.D. in Zoology from the University of Toronto. She completed her post-doctoral work at the University of California, San Francisco and HHMI Janelia Research Campus. Since 2013, Dr. Kaun has been a member of faculty of the Department of Neuroscience. Her research examines the genetic, molecular and neural mechanisms underlying drug and alcohol cravings. Using the powerful molecular genetic tools available in the fruit fly, she is currently developing new methods to study reward memory, mapping circuits for memories of the aversive and appetitive properties of drugs of abuse, and investigating the molecular mechanisms within these circuits that affect neuronal plasticity and function. Her research integrates approaches from behavioral neuroscience, pharmacology, genetics, molecular biology, biochemistry, computer science and bioinformatics. Due to the interdisciplinary nature of her work, Dr. Kaun trains mentees in multiple programs including: 1) Neuroscience, 2) Molecular Biology, Cell Biology and Biochemistry, 3) Molecular Pharmacology and Physiology, and 4) Biotechnology. Dr. Kaun currently holds a NIAAA R01, a Binational US-Israel Foundation award, a Smith Family Award for Excellence in Biomedical Research, and a collaborative BIBS and NPNI New Frontier Pilot award with Dr. John McGeary. She is currently looking for people interested in using a collaborative and interdisciplinary approach to highlight the clinical relevance of the foundational research performed in her lab. For more information please visit www.kaunlab.com.

Gabor Keitner, M.D.
Professor

Dr. Gabor Keitner's clinical and research interest is in providing and assessing comprehensive treatments including pharmacotherapy, psychotherapy, and family therapy. He conducted pharmacological clinical trials and is an international authority on family therapy and combined (biological and psychosocial) treatments. He is also investigating the effectiveness of disease management models for treatment resistant depressions and bipolar disorders.

Dr. Keitner recently completed a double blind placebo controlled study that showed that augmenting antidepressants with risperidone in patients with difficult-to-treat depression led to a significantly higher remission rate, faster recovery, better odds of remission, and better quality of life than placebo augmentation.

Dr. Keitner has completed a RCT evaluating the effectiveness of a depression disease management program (the management of depression-MOD, consisting of resetting expectations, focusing on functioning rather than symptoms, education, lifestyle changes, coping skills, and social support) for those patients continuing to experience distressing depressive symptoms in spite of adequate antidepressant treatment.

A recently completed study, evaluated the functioning of families in the Southern New England Community. The goal was to update family functioning norms for the Family Assessment Device (FAD) a self-report inventory of family functioning that has been translated into 27 languages and is being used worldwide. A recent study has established the reliability and validity of a brief 3 item version of the General Functioning Scale of the FAD, the Brief Assessment of Family Functioning Scale (BAFFS) that allows for a quick assessment of a person's overall satisfaction with their family. We are continuing to investigate the relationship between family functioning, social support, life events, quality of life, and sociodemographic variables.

We have also in the process of validating a brief mental health outcome measure (The Brief Multidimensional Assessment Scale –BMAS) to evaluate patient status and the perceived effectiveness of medical treatments. This five item scale evaluates patient perception of symptoms, functioning, quality of life, relationship satisfaction, and meaning. It takes less than one minute to complete and can be used in any type of clinical setting for any kind of illness.

Daphne Koinis Mitchell, Ph.D.
Professor, Department of Psychiatry and Human Behavior and Department of Pediatrics

Dr. Koinis Mitchell is a Clinical Psychologist at Rhode Island Hospital (RIH) and has been a PI and Co-I on NIH-funded studies focusing on pediatric health disparities for twenty years. She has particular expertise in multi-level factors contributing to asthma and sleep
outcomes in urban children, and in implementing home and school-based interventions to improve children’s asthma control. She is also the Director of the Community Asthma Program (CAP) at RI Hospital, which provides asthma educational and clinical services to families at Hasbro Children’s Hospital and throughout the RI schools. She is the PI on two recently completed R01 applications that involve a longitudinal examination of asthma, sleep and academic performance (HD057220) and asthma, sleep, physical activity and cultural/contextual factors (HL16254) in urban children. Her recently funded research expands this work to focus on biological processes (e.g., immune-based biomarkers) that may predict poorer asthma and disrupted sleep in urban children using experimental approaches. Her recent study results have been translated to culturally tailored, school-based interventions that are addressing asthma and sleep outcomes in the Greater Providence area and in San Juan Puerto Rico, two urban areas with high asthma prevalence.

Dr. Koinis Mitchell is also extremely invested in mentoring trainees and faculty at all levels who are interested in research in pediatric health disparities. This is best exemplified in her recently funded K24 application focused on mentoring junior scientists, particularly those from under-represented backgrounds, interested in patient oriented research. She was also recently appointed the Director of Faculty Development and Mentoring in the Department of Pediatrics at Hasbro. In this position, she will continue to advance the research programs and scholarship of junior faculty in the department, as well as bridge interdisciplinary, collaborative research between Pediatrics, Psychiatry, and departments throughout the hospital and the main campus. She served as the Co-Chair of the Diversity Committee in DPHB and continues to serve as a senior member on this committee. She consults on the development of faculty cultural competence programs for clinical departments at RIH, and at the medical school. She continues to serve as a reviewer on NIH study sections throughout each year, and is involved in several editorial boards of high impact journal focusing on pediatric health issues.

W. Curt LaFrance, Jr., M.D., MPH, FAAN, FANPA, DFAPA
Professor, Department of Psychiatry and Human Behavior and Department of Neurology

W. Curt LaFrance, Jr., M.D., M.P.H., is the Director of Neuropsychiatry and Behavioral Neurology at Rhode Island Hospital (RIH) and Professor of Psychiatry and Neurology in the Departments of Psychiatry and Human Behavior and of Neurology at Alpert Medical School, Brown University. He is the neuropsychiatrist for the RIH Comprehensive Epilepsy Program, and a faculty member of the Brown Institute for Brain Science. He is a staff physician at the Providence VA, a researcher with the Center for Neurorestoration and Neurotechnology (CINN) and Clinical Lead for the VA National Telemental Health Center Tele-Seizures Program. He is the Director of the combined neurology/psychiatry residency at Brown University, where he teaches and mentors undergraduates, medical students, residents and fellows in research and clinical practice. He has mentored over 60 students, residents and faculty in neuropsychiatry and research since 2004.

Dr. LaFrance received a bachelor of arts degree in psychology from Wake Forest University and his medical degree from the Medical College of Georgia. He completed the combined residency in neurology and psychiatry at Brown Medical School and is boarded in both neurology and in psychiatry by the American Board of Psychiatry and Neurology (ABPN). After residency, he completed a Clinical Research Fellowship in Combined Treatments at Brown University with an institutional NIH T-32 national research service award. He obtained his master of public health from Brown University in 2007.

Dr. LaFrance received a National Institute of Neurological Disorders and Stroke (NINDS) 5 year K23 award to conduct clinical trials for patients with psychogenic nonepileptic seizures (NES). He was awarded the 2003 Career Development Award by the American Neuropsychiatric Association (ANPA). His biography is included in Marquis Who’s Who in the World. He was awarded the American Academy of Neurology (AAN) 2013 Dreifuss-Penry Epilepsy Award. He was appointed to the Governor’s Permanent Advisory Commission on Traumatic Brain Injury (TBI). His academic society memberships include the AAN (fellow), ANPA (fellow), American Psychiatric Association (distinguished fellow), American Epilepsy Society (AES), and Christian Medical & Dental Associations.

Dr. LaFrance serves on the Committee on Research for the ANPA. He served on the Editorial Boards for Epilepsy & Behavior, Epilepsia, Journal of Neuropsychiatry and Clinical Neurosciences, and Journal of Neurology, Neurosurgery and Psychiatry, and he is an invited reviewer for numerous neurology and psychiatry journals. He chaired the 2005 NINDS/NIMH/AES and the 2015 AES/NIH sponsored NES workshops. These international workshops brought neurologists, psychiatrists, psychologists and allied health members together to set the direction for future NES research. He served as a steward for the NINDS Epilepsy
Benchmarks, and he serves on the ILAE’s Neuropsychiatry Commission. He served as a reviewer for NIH/NINDS, EF, Institute for Mental Health Research, Brainwave Irish Epilepsy Foundation, and The Wellcome Trust’s Neuroscience and Mental Health Funding Committee.

His research interests include treatment development and biomarkers of neuropsychiatric aspects of epilepsy, diagnosis and treatment of somatoform / conversion disorders, and TBI. His research has been funded by the DoD, NINDS, AES, EF, Brown, VA, CfNN and Siravo Foundation. Along with his clinical trials experience as a single and multisite PI, his training as a neurologist, psychiatrist, neuropsychopharmacologist and psychotherapist allow him to conduct translational patient-oriented research, bridging neurology and psychiatry. Examples of his biomarker study findings include lower brain derived neurotrophic factor (BDNF) in patients with epileptic seizures and in those with NES, compared to healthy controls, and his current DoD grant on pre- and post-treatment fMRI in patients with seizures and TBI, Neuroimaging Biomarker in Seizures (PI LaFrance).

He has written on and given invited lectures regionally, nationally and internationally on topics in neuropsychiatry, including epilepsy co-morbidities, somatoform disorders, NES, TBI, PM.D., integrative medicine, causation and consciousness. He has trained clinicians around the country on delivering the cognitive behavioral informed therapy for patients with seizures. His work is published in various neurology, psychiatry and pediatric peer-reviewed journals. He is co-editor of the 3rd and 4th edition of Gates and Rowan’s Nonepileptic Seizures and co-author of Taking Control of Your Seizures: Workbook and Treating Nonepileptic Seizures: Therapist Guide.

Barry Lester, Ph.D.
Professor

Barry Lester, Ph.D. is Professor of Psychiatry and Human Behavior, Professor of Pediatrics and founding director of the Center for the Study of Children at Risk at the Brown University, Alpert Medical School and Women and Infants Hospital of Rhode Island. The Center has two arms. One is the research arm, Center for the Study of Children at Risk. The other is the Center for Children and Families where we provide clinical services.

Research has shown that biological insults can lead to poor developmental outcome in children at risk but that many of these effects can be attenuated or exacerbated by social and environmental factors. Current research at the Center includes developmental outcome of children with prenatal drug (e.g., cocaine, methamphetamine) exposure, maternal depression during pregnancy and the effects of psychotropic medications on fetus and newborn, fetal behavioral assessment, early detection of infants at risk for autism and development in children with autism, neurobehavioral assessment of preterm and other infants at risk and prediction of later impairment, efficacy of the single family room model of care in the Neonatal Intensive Care Unit, and treatment of withdrawal in infants of mothers in methadone maintenance treatment during pregnancy.

The study of the interplay between biological and social factors provides an understanding of the mechanisms that determine developmental outcome. One way in which the environment (prenatal or postnatal) alters behavior is through epigenetic mechanisms and this (including translational research) has become a major focus of our current research. Epigenetic work includes behavioral development of typically and atypically (e.g. autism, preterm infants, children with prenatal drug exposure) developing populations, prenatal (e.g. maternal depression) and postnatal (e.g. parenting, environmental adversity) factors that could result in epigenetic alterations in the child that affect later development. The study of children at risk enables us to understand the unfolding of developmental processes that can lead to the development of preventive interventions to minimize or eradicate the forces that drive adverse outcome in children.

Clinical services at the Center include perinatal, postpartum and infancy, early childhood and autism spectrum disorders. Inpatient services at Women and Infants Hospital include neurobehavioral assessment of preterm infants in the Neonatal Intensive Care Unit as part of standard care, occupational therapy and family consultation.

Dr. Lester’s research has been continuously funded by the NIH in the 30 years he has been at Brown. He has been heavily involved in the NIH peer review process having served on numerous NIH study sections, the NIH National Advisory Council on Drug Abuse, Steering Committee of the National Advisory Council on Drug Abuse, the NIH Director’s Pioneer Award Program and the College of the Center for Scientific Review. He is past president of the International Association for Infant Mental Health and the author of more than 250 peer reviewed publications and 18 edited volumes.
Diane Lipscombe, Ph.D.
Director, Robert J and Nancy D Carney Institute for Brain Science; Thomas J Watson Sr. Professor of Science Department of Neuroscience

Dr. Lipscombe studies ion channels, these proteins underlie all electrical signaling in cells. The lab is particularly focused on voltage-gated calcium ion channels, in neuronal function in normal and disease states including schizophrenia and chronic pain. They combine genetic, molecular, electrophysiological and behavioral approaches in their studies and have elucidated cell-specific mechanisms that determine ion channel composition, function and pharmacology. Through several collaborative projects, the Lipscombe lab also seeks to define defects in early stage animal models of ALS and they are developing new molecular tools to regulate neuronal activity. Dr. Lipscombe has a number of mentoring and teaching awards and several predoctoral and postdoctoral associates have received individual external funding for their projects. Dr. Lipscombe's research is supported by funds from the NIH, NSF and Keck Foundation.

Judy Liu, M.D., Ph.D.
Assistant Professor of Neurology, Assistant Professor of Molecular Biology, Cell Biology and Biochemistry (Research)

Dr. Liu is a scientist studying neurological disorders as well as a practicing neurologist. Her research is funded by a variety of sources including an R56/ R01 grant from NINDS/ NIH and the private foundation Citizen’s United for Research in Epilepsy (CURE)

The work in the Liu lab focuses on mechanisms governing the development of the cerebral cortex and on consequences when normal development goes awry. This work has clinical relevance to a group of structural disorders of the cortex called cortical malformations, a term encompassing rare monogenic, inherited disorders as well as more common disorders without a clear etiology. Malformations result from disruptions in cortical development. The Liu lab works on the animal model of one of the common causes of human lissencephaly, a mouse with a mutation in the gene, doublecortin. Dr. Liu identified a novel role of doublecortin, in the regulation of microtubule-based molecular motor, and has continued this work using live-imaging techniques to study motor-related biology in developing neurons.

Her lab has used expertise gained by working on single gene disorders, to study common diseases. Her group works on epilepsy that arises from common non-inherited cortical malformations. These malformations, called focal cortical dysplasias, affect a discreet part of the brain, however, they give rise to severe, medically refractory epilepsy. Patients with these dysplasias often have them removed surgically to treat the seizures. By studying the resected brain tissue, the Liu lab identified the circadian molecular clock as an important factor in epilepsy. By using an animal model, they determined that the abnormal function of the circadian molecular clock in the seizure focus leads to a decreased seizure threshold during sleep. This phenomenon may cause the sleep associated epilepsy commonly found in these patients.

Paul Malloy, Ph.D.
Professor

Paul Malloy, Ph.D. graduated from Dartmouth College in 1972, and served as a Navy officer for the next four years. He earned a Ph.D. in clinical psychology from SUNY Binghamton in 1981, and has been on the Brown Faculty since 1983. He serves as Director of Psychology at Butler Hospital and co-director of the Memory and Aging program at Butler Hospital. He is involved in numerous clinical trials for Alzheimer’s disease and consults regularly with pharmaceutical companies on trial design and investigator training.

Dr. Malloy has published over 100 scholarly articles, and has co-authored two books on neuropsychiatric disorders. Dr. Malloy’s primary research interest is frontal lobe/ executive functions in neuropsychiatric disorders, with a current focus on dementia. A series of projects have demonstrated the relationship between executive problems and caregiver burden, failure in activities of daily living, and apathy. He is also involved in studies measuring executive functioning in obsessive-compulsive disorder (OCD) and depression in patients undergoing deep brain stimulation treatment. He is the author of the The Frontal Systems Behavior Scale (FrSBe), a test that measures changes in behavior due to frontal lobe injury or disease. This test in widely used by clinicians and in large scale clinical trials.

John McGeeary, Ph.D.
Associate Professor

John McGeeary, Ph.D. is an Associate Professor in the Department of Psychiatry and Human Behavior. Dr. McGeeary’s research relates to the identification of genetic variation that is associated with psychiatric and behavior phenotypes. He actively collaborates on over 60 projects with investigators at Brown, affiliated hospitals and
collaborating institutions around the country. Research topics span addiction phenotypes, anxiety phenotypes, mood phenotypes, nonpsychiatric behavioral phenotypes (e.g., sleep, obesity) and pharmacogenetics (the use of genetic profiles to predict medication efficacy and side-effects) among others. With a focus on team science, Dr. McGeary is an active member on 14 currently funded grants (and 41 completed grants) and is an author on 112 published papers.

Elizabeth McQuaid, Ph.D., ABPP
Professor, Departments of Psychiatry and Human Behavior and Pediatrics

Elizabeth McQuaid, Ph.D. graduated summa cum laude from Yale University with honors in psychology, and completed her graduate work in Clinical Psychology at the University of Denver. She completed her clinical psychology internship at the Children's National Medical Center in Washington, DC, before coming to Brown for a postdoctoral fellowship in Pediatric Psychology. She has been a member of the DPHB faculty since 1997.

Dr. McQuaid’s current research interests focus on psychosocial aspects of pediatric asthma and food allergies. Prior grants assessed involved designing and implementing interventions to promote adherence to long-term controller medications in pediatric asthma, through funding from the National Institute of Child Health and Human Development (NICHD), the National Institute for Nursing Research (NINR), the National Heart, Lung, and Blood Institute (NHLBI) and a Career Investigator Award from the American Lung Association. Dr. McQuaid completed a Mid-Career Investigator award (K24) from NICHD to promote her mentorship of junior faculty in patient-oriented research. Currently, she directs several projects that assess psychological and family characteristics that influence asthma management and outcomes in pediatric asthma, and novel computer-based interventions to promote effective food allergy management among children. She is a key member of multiple research teams investigating innovative approaches to enhancing disease management in families of children with chronic illness, and is one of the PIs of the Hassenfeld Child Health Innovation Institute Asthma initiative. Most recently, she was awarded funding for the Rhode Island Asthma Integrated Response Program (RI-AIR, U01 HL138677), along with MPI Daphne Koinis Mitchell. RI-AIR implements a coordinated system of screening, referral, and evidence-based self-management interventions for children with asthma in areas of greater Providence with high health-care utilization.

Dr. McQuaid has an ongoing interest in investigating health disparities, including cultural issues in disease management. She served on the Brown Committee for Minority Faculty Recruitment and Retention. Dr. McQuaid also served as Associate Editor of the Journal of Pediatric Psychology, with responsibility for a special section on health disparities and diversity, from 2007-2012. Dr. McQuaid is active in both national and international research forums, has been appointed a Fellow in Division 54 (pediatric psychology) of APA, and recently received the Michael Roberts award for Outstanding Mentorship from Division 54. She is Board Certified in Clinical Child and Adolescent Psychology. Dr. McQuaid is Director of the Clinical Psychology Training Consortium at Brown.

Ivan Miller, Ph.D.
Professor

Ivan Miller, Ph.D. is interested in the assessment and treatment of mood disorders, including major depression, dysthymia, and bipolar disorder. He also has specific interests in the treatment of suicidal patients and in family approaches to mood disorders.

Peter M. Monti, Ph.D.
Professor, Department of Behavioral and Social Sciences, School of Public Health

Peter M. Monti, Ph.D. is the Donald G. Millar Distinguished Professor of Alcohol and Addiction Studies and Director, Center for Alcohol and Addiction Studies at Brown University. He is also a senior career research scientist funded through a K05 from NIH. A recognized leader in understanding the bio-behavioral mechanisms that underlie addictive behavior as well as its prevention and treatment, Dr. Monti has published approximately 350 papers, monographs, and chapters. These are primarily focused in the areas of assessment, mechanisms, early intervention, and treatment. During this past year he has lectured both nationally and internationally. He recently completed the second edition of Adolescents, Alcohol and Substance Abuse.

Dr. Monti’s research interests are: 1) Adolescent substance abuse: Prevention and treatment; 2) Coping skills and relapse prevention; 3) Combined cognitive behavioral and pharmacological interventions; 4) Alcohol and HIV/sexual risk.

His contributions to the addictions field have been both theoretical and applied. Dr. Monti has trained hundreds of students, primarily psychology interns and postdoctoral fellows. He is presently PI on two major research grants: a
Dr. Monti regularly serves on numerous scientific review committees, including those for NIAAA and NIDA and the VA Merit Review Board for Alcohol and Drug Dependence. He was appointed chair of NIAAA’s Portfolio Review Committee - a committee charged with helping to chart the course for the Alcohol Institute for the next five- to ten-year period, the NIAAA’s Extramural Advisory Board, and recently served on the National Institutes of Health National Advisory Council on Alcohol Abuse and Alcoholism. He has sat on numerous editorial boards of scientific journals and was recently appointed to the boards of the Journal of Child and Adolescent Substance Abuse and of Psychology of Addictive Behaviors. Dr. Monti currently holds fellowship status in Divisions 12, 18, and 50 of the American Psychological Association and is a fellow of the American Psychological Society. Dr. Monti has served on the Board of Trustees of Stonehill College and the Board of Directors of the Research Society on Alcoholism and currently sits on the Board of Directors of S.M.A.R.T. Recovery International, the Advisory Board of the Louisiana State University Alcohol Research Center, and the Advisory Board of the University of Florida Alcohol Research Center. He has received the Distinguished Researcher Award from Section VIII of APA’s Division 12. He has also been presented with the Musiker-Merenda Award by the Rhode Island Psychological Association for his “outstanding contributions to mental health and psychology” and the Association of Medical School Psychologists Distinguished Researcher Award. In 2018 he was the recipient of NIH’s Mendelson Award, for his long-standing contributions to the understanding and treatment of substance use disorders.Dr. Monti was the recipient of the Distinguished Researcher Award from the Research Society on Alcoholism (RSA) in 2006. In 2018 he was the recipient of NIH’s Mendelson Award, for his long-standing contributions to the understanding and treatment of substance use disorders. He is a past president of the Research Society on Alcoholism.

**Christopher Moore, Ph.D.**  
Professor, Department of Neuroscience

Dr. Moore studies the mechanisms underlying neocortical dynamics and their meaning for perception, with an emphasis on topics such as the processes controlling thalamic bursting and spindle expression (e.g., Halassa, Siegle et al., 2011; Higashikubo and Moore, in preparation). We have contributed significantly to technique development for the study of neocortical dynamics, including advances in the use of optogenetics in in vivo and awake models (Cardin et al., 2010; Desai et al., 2011; Kahn et al., 2011; Siegle et al., 2011; Kahn et al., 2013). A recent advance was development of a particularly light (< 2g) microdrive design for multi-electrode recording, which allows the use of a high-number and density of tetrode recordings in mouse thalamus (16 tetrodes, 64 channels, 3 independently driven fiber optics for optogenetic drive; Voigts et al., 2013). A related advance is our new electrophysiology system optimal for ‘conventional’ real-time feedback (www.open-ephys.org). Key hypotheses that drive the lab currently are trying to determine how local neocortical transformations optimize representation perception and testing the “hemo-neural” hypothesis that local functional vascular events, like those imaged in fMRI, can drive neocortical dynamics. We are now also developing new methods for non-invasive control of neural circuits with genetic-level specificity using bioluminescence.

**Eric M. Morrow, M.D., Ph.D.**  
Associate Professor, Department of Molecular Biology, Cell Biology, and Biochemistry  
Associate Professor, Department of Psychiatry and Human Behavior

Eric M. Morrow is a physician-scientist with extensive experience in childhood neurodevelopmental disorders. He received his Ph.D. in genetics and neurodevelopment at Harvard University. He received his M.D. degree from the Health Science Training Program at Massachusetts Institute of Technology and Harvard Medical School. Dr. Morrow’s research focus is on normal mechanisms that regulate postnatal human brain development and on functional study of genetic mutations that lead to severe neuropsychiatric disease. The long-term aim of this research is to establish a basic foundation for improved genetic diagnoses and treatment interventions designed to enhance cognitive and adaptive gains for patients with childhood neurodevelopmental disorders.

The Morrow laboratory capitalizes on the synergistic pursuits of genotype-phenotype studies in human genetic diseases and the investigation of cellular mechanisms in rodent models and patient-derived stem cells. Notably, for his research, in particular as related to NHE6, in January 2017 Dr. Morrow was awarded the Presidential Early Career Award for Scientists and Engineers by the Barack Obama administration (one of 102 scientists and engineers nationally).

Research opportunities for trainees are various, including projects in patient-oriented genetic research, or studies in cell biology and/or brain development in rodent models of neurogenetic disorders.
Nicole Nugent, Ph.D.
Associate Professor (Research), Departments of Psychiatry and Human Behavior and Pediatrics Brown Medical School

Nicole Nugent, Ph.D. is an Associate Professor in the Departments of Pediatrics and Psychiatry and Human Behavior at the Warren Alpert Medical School of Brown University and is a child clinical psychologist at the Bradley Hospital and Hasbro Children's Hospital Research Center. Dr. Nugent's lab conducts programmatic research aimed at characterizing neurobiological and psychosocial influences during high risk periods of stress and transition, toward the goal of developing informed and novel secondary and tertiary interventions. Dr. Nugent's early work focused on the interplay of biomarkers and social context in the acute aftermath of trauma as related to development of stress-sensitive disorders such as posttraumatic stress disorder and depression. This early work was expanded through a Mentored Research Scientist Award to incorporate training and research in psychiatric genomics and advanced analytic models, which has permitted Dr. Nugent to continue to develop an integrated program of research aimed at rich characterization of clinically significant and dynamical processes that unfold as at-risk adolescents navigate periods of significant stress. Dr. Nugent's lab is currently implementing NIH funded investigations (R01MH105379, R01MH108641) that examine adolescent in vivo emotion reactivity as related to social context in the real world during times of high-risk transition. Specifically, adolescents who have experienced a trauma and are transitioning from the emergency department or hospital and, in a separate study, from inpatient psychiatric hospitalization for suicidal thoughts and behaviors to their home environments. Research methods implemented within the lab include genomics, psychophysiology, attention bias, and numerous approaches to ecological assessments including the examination of data from ecological momentary assessment (EMA), electronically activated recorder (EAR), online social networking (OSN), and health tracker sensor data. Dr. Nugent has presented at numerous invited workshops through NIEHS and SAMHSA as well as NIMH. She has received numerous awards including twice receiving the Loan Repayment Award. In addition to her active program of research, Dr. Nugent directs Psychological Services for the Pediatric Refugee Clinic at Hasbro Children's Hospital. Dr. Nugent is active in mentorship across a range of training levels and disciplines and serves as advisor to the Brown Refugee Youth Tutoring and Enrichment (BRYTE) Program as well as provides mentorship to postdoctoral fellows through the Child Mental Health T32 and investigator funded fellowships. Past trainees have gone on to a variety of careers including medical school positions, faculty positions at tenure track institutions, and the Centers for Disease Control.

Noah S. Philip, M.D.
Associate Professor

Dr. Philip graduated AOA from Albany Medical College in 2005 with a Distinction in the Study of Biomedical Ethics, and completed psychiatry residency at the Alpert Medical School of Brown University in 2009. His research interests lie in the understanding and development of novel treatments for mood and anxiety disorders. To this end, during residency he authored several papers on off-label use of atypical antipsychotics and various augmentation regimens for treatment-resistant depression. He also conducted a clinical trial testing whether the nicotinic partial agonist, varenicline, had antidepressant properties. After residency, he completed an NIMH T32 Postdoctoral research fellowship in neuroimaging and treatment development, where he was awarded a young investigator grant from the Rhode Island Foundation to examine neuroimaging correlates of trauma in adult populations. This work was followed by a Neuromodulation Fellowship at Butler Hospital that focused on the use of noninvasive brain stimulation for depression, including transcranial magnetic stimulation (TMS), and served as PI or co-PI for several multisite clinical trials of TMS. IN 2012, he received VA-Career Development Award (CDA-2) to use multimodal neuroimaging methods to understand neural network dysfunction associated with PTSD. During that time, he also received pilot awards from the VA Center for Neurorestoration and Neurotechnology and to integrate research using neuroimaging and noninvasive brain stimulation. In 2017, he received a large independent research grant from the VA to study the use of combined transcranial direct current stimulation plus virtual reality as a new treatment for PTSD, and in 2018 started as Director of Restoration of Cognitive/Affective Function at the Center for Neurorestoration and Neurotechnology. He is also funded by a number of other grants from NIDA, DoD, and the Rhode Island Commerce Corporation. Dr. Philip has received numerous awards, including young investigator awards from the NCDEU and APA, travel fellowships from the Society of Biological Psychiatry, American College of Neuropsychopharmacology, and was the recipient of the 2013 Psychiatry Department Research Mentor Award and 2017 Education Committee award. He served a member of the Program Committee for the Society of Biological Psychiatry from 2014-2017 and serves
as invited junior faculty to the NIMH-sponsored Career Development Institute for Psychiatry. In 2017, he joined the American College of Neuropsychopharmacology as an Associate Member. Clinically, Dr. Philip established and directs the psychiatric neuromodulation service at the Providence VA, where residents rotate to learn how to deliver TMS therapy and can learn about ongoing research protocols. He is strongly committed to educating and mentoring psychiatry residents; he teaches in the Neuroscience didactics series, served as co-director of the resident research seminar since its inception, and in 2015 joined the RTP leadership.

Lawrence H. Price, M.D.
Professor

Dr. Price attended the University of Michigan, where he received a B.S. with highest honors in psychology and high distinction in 1974, followed by an M.D. in 1978. After an internship in internal medicine at Norwalk Hospital in Norwalk, Connecticut, he completed residency and fellowship training in psychiatry at Yale University. From 1982 until 1996, he was on the faculty in the Department of Psychiatry at Yale University, serving as Associate Professor and Director of the Clinical Neuroscience Research Unit at the Connecticut Mental Health Center in New Haven, Connecticut. Since 1996, he has been Professor of Psychiatry and Human Behavior at Brown University. From 1996 until 2012, he was Clinical Director, Director of Research, and Chair of the Institutional Review Board at Butler Hospital in Providence, Rhode Island, subsequently serving as Chief Medical Officer from 2012 until 2014. From 2014 until 2017, he was Butler’s President and Chief Operating Officer. In 2017, he was appointed Adjunct Ryan Research Professor of Neuroscience in the George & Ann Ryan Institute for Neuroscience of the University of Rhode Island.

Dr. Price’s primary research interests have involved the phenomenology, clinical psychopharmacology, neuropsychopharmacology, and neurobiology of mood, anxiety, and addictive disorders. He has received funding on numerous NIH and industry grants, and has served continuously on an NIH study section since 2008. He has published over 465 scientific papers, chapters, and letters, and was identified by the Institute for Scientific Information as one of the top ten authors of high-impact papers in psychiatry from 1990 to 1999. A Distinguished Fellow of the American Psychiatric Association and a Fellow of the American College of Neuropsychopharmacology, he is one of the principal developers of the Yale-Brown Obsessive-Compulsive Scale (Y-BOCS), the standard assessment tool for OCD.

In addition to his research activities, Dr. Price has received numerous awards for his teaching, mentoring, and clinical work. He is Editor of The Brown University Psychopharmacology Update, Principal Editor for clinical psychopharmacology of Psychopharmacology, and Editor (with I. Stolerman) of the Encyclopedia of Psychopharmacology, Second Edition.

Dr. Price’s detailed biography is available at: https://www.ncbi.nlm.nih.gov/sites/myncbi/1pQTpiU-3zks/bibliography/49189739/public?sort=date&direction=ascending

Carl Saab, Ph.D.
Associate Professor, Department of Neuroscience

Dr. Carl Saab is Associate Professor, department of neuroscience and department of neurosurgery, Warren Alpert Medical School, Brown University and Rhode Island Hospital. He is a neuroscientist who trained with leaders in the fields of neurodegeneration (Stephen Waxman, Yale) and pain (William Willis, UTMB). His training gained him a multidisciplinary expertise in molecular, cellular, electrophysiological and behavioral research spanning rodent, canine, non-human and human primate subjects. He joined Brown University as Assistant Professor in 2004 where his lab built a strong foundation in translational neuroscience, funded continuously by grants from NIH (BRAIN R01 award), pharmaceutical and device companies (Medtronic, Boston Scientific, Asahi Kasei), as well as research awards from Brown University. He is interested in moving beyond the textbook drawings of static wiring diagrams in the brain towards understanding the traffic patterns (i.e. how complex and non-linear patterns emerge and how they can be controlled selectively). To this end, his lab strives to bridge low-level, micro-scale electrophysiology (spike activity) with the rich, high-level macro-scale network dynamics (oscillations), and how these variables feedback and shape each other. The result is a better understanding of neural circuits in health and disease. In particular, the Saab lab is currently elucidating dynamic maps of brain networks related to sensory perception, in particular a modeling framework of the thalamocortical circuitry (Front Comput Neurosci 10:147, 2017). This model has been successfully used to examine the dependency of cortical physiology and pain behavior on optogenetic perturbations of thalamic burst firing (Sci Rep 7:2482, 2017). He envisions that a deep understanding of connectomics will supplement more conventional, small-scale structural approaches with large-scale approaches that are trans-disciplinary, for e.g. EEG (J Neurosci Methods 23;307:53-59, 2018).
Hence, competitive research projects will increasingly require synergistic collaborations that shape fundamental questions regarding network dynamics giving rise to behavior in health and disease.

Stephen Salloway, M.D., MS
Professor, Department of Psychiatry and Human Behavior and Department of Neurology

Dr. Salloway is Chief of Neurology and Director of the Memory and Aging Program at Butler Hospital and the Martin M. Zucker Professor of Psychiatry and Human Behavior, and Professor of Neurology at the Warren Alpert Medical School of Brown University. He received his M.D. from Stanford Medical School and completed residencies in neurology and psychiatry at Yale University.

Dr. Salloway is an internationally recognized leader in clinical trials for the prevention and treatment of Alzheimer’s disease. He has served as lead or contributing author for several important publications in the treatment of Alzheimer’s disease, including the report of the phase 3 trial of bapineuzumab in the New England Journal of Medicine, the trial of aducanumab in Nature, and the pivotal trial of flutemetemol leading to FDA approval. Under his direction, the Butler Hospital Memory and Aging Program has conducted more than 100 clinical trials developing new diagnostic tests and treatments for memory loss and his program is currently conducting 5 prevention trials for individuals at high risk for Alzheimer’s disease. He has published more than 300 scientific articles and abstracts and edited 3 books. He lectures widely about early diagnosis and treatment of Alzheimer’s disease.

The Butler Memory and Aging Program offers a rich multidisciplinary training environment. Residents and other trainees play an integral role in clinical research and many trainees have won young investigator awards and grants, have presented their work at national and international meetings and published their results in peer-reviewed journals. The program is working closely with the Global Alzheimer’s Platform (GAP) and the National Institute on Aging (NIA) to accelerate drug development for Alzheimer’s disease.

Jerome Sanes, Ph.D.
Professor, Department of Neuroscience

Dr. Sanes investigates brain processes underlying mechanisms of volition and motor learning. He has expertise in MRI analysis and functional connectivity, which is relevant to numerous psychiatric disorders. Dr. Sanes directs the COBRE Center for Central Nervous System Function and the Brown MRI Research Facility. In addition to mentoring as PI on the COBRE and neuroscience students, Dr. Sanes mentors many others in his role as MRI Research Facility director, to which R25 residents will have access.

Ronald Seifer, Ph.D.
Professor

Ronald Seifer, Ph.D. received his Ph.D. in developmental psychology from the University of Rochester in 1981. He spent 8 years at the Institute for the Study of Developmental Disabilities, University of Illinois Chicago before coming to the Alpert Medical School in 1986. Dr. Seifer is currently Professor of Psychiatry and Human Behavior at Brown University and Director of Research at E. P. Bradley Hospital.

Dr. Seifer’s research interests are in the area of developmental psychopathology. He has ongoing studies on children at risk because of maltreatment. Processes studied include children’s emotions, relationship formation, temperament, and family interaction. The focus of this work is on the early years of life. Other recent work has focused on integration of mental health in primary care settings, and dissemination of empirically based interventions.

Thomas Serre, Ph.D.
Associate Professor, Department of Cognitive, Linguistic and Psychological Sciences

Dr. Serre explores mechanisms underlying object and visual scene recognition using computational, behavioral, imaging, and physiological techniques. His work on rapid visual categorization is relevant to psychiatric disorders such as autism, schizophrenia or Alzheimer. He is currently collaborating with the Neuro-Technology group to work with epileptic patients with implanted (intra-cranial) electrodes to study the neural basis of natural everyday vision. Dr. Serre is Associate Director of the Rodent Neurodevelopmental Behavioral Testing Facility, a state-of-the-art (fully automated) facility to generate and characterize preclinical models of disorders,
test novel pharmacological and genetic rescue strategies in rodent models, and conduct basic research. He has mentored researchers at the undergraduate, graduate, and postdoctoral level. He is a recipient of an NSF early career award and DARPA young faculty award. His research has been funded by NSF, ONR, DARPA and the Human Frontier Science Foundation.

M. Tracie Shea, Ph.D.
Professor

Tracie Shea, Ph.D. has conducted research on post-traumatic stress disorder, personality disorders, and depression. Her current research on PTSD and other trauma related psychopathology includes two VA funded randomized clinical trials. One is testing the efficacy of a cognitive behavioral treatment for anger problems in Veterans who have deployed to Iraq or Afghanistan. The other trial is examining the comparative effectiveness of Interpersonal Therapy and Prolonged Exposure for the treatment of PTSD in Veterans of all eras. Prior research on psychosocial treatments include being a training site principle investigator for two large multi-site clinical trials funded by the VA Cooperative Studies Program to examine the effectiveness of exposure based treatments compared to supportive, present-centered therapy for the treatment of PTSD in Veterans, a NIMH study of the efficacy of Interpersonal Therapy and Cognitive Behavioral Therapy for treatment of depression, and several treatment development studies. Her prior research has also included a Department of Defense funded study examining the early longitudinal course of PTSD symptoms and predictors of chronic PTSD in Veterans of the Iraq war, and a NIMH funded multi-site study investigating the naturalistic longitudinal course of personality disorders over 10 years of follow-up.

David Sheinberg, Ph.D.
Professor, Department of Neuroscience

Dr. Sheinberg received his AB in Computer Science and Psychology from Yale College and his Ph.D. in Cognitive Science at Brown. Following postdoctoral fellowships at Baylor College of Medicine in Houston and the Max Planck Institute in Tuebingen, Germany, Dr. Sheinberg returned to Brown as a faculty member in the Department of Neuroscience in 2000.

Dr. Sheinberg's research lab explores how we identify objects and events in the real world, where both the observer and the environment change over time. The brain must process a dynamic stream of sensory information and efficiently parse this information to reach conclusions about the presence or absence of noteworthy objects to which actions should be directed. Using a combination of behavioral and physiological methods, including the use of optogenetics, we aim to better understand mechanisms underlying perception and cognition.

Amitai Shenhav, Ph.D.
Assistant Professor, Department of Cognitive, Linguistic, and Psychological Sciences

Dr. Shenhav is a cognitive and affective neuroscientist who received his B.A. in Cognitive Science from U.C. Berkeley and his Ph.D. in Psychology from Harvard University. He completed his postdoctoral training at Princeton University in 2016, where he has funded by a fellowship from the C.V. Starr Foundation, before starting his lab at Brown as an Assistant Professor in CLPS (www.shenhavlab.org). Dr. Shenhav studies the neural mechanisms at the intersection of value-based decision-making, affect, and cognitive control, with a particular focus on interactions within and among corticostriatal circuits. His findings have been published in leading journals (e.g., Neuron, PNAS, and Nature Neuroscience). A major aim of his research is to understand what the motivational barriers are to exerting cognitive effort (including barriers to decision-making itself), and how individuals choose to overcome those barriers (i.e., what makes something “worth” the effort required). His lab seeks to further understand the mechanisms by which control/choice costs and cognitive effort allocation vary across individuals, and the degree to which these circuits are dysregulated in certain clinical populations (e.g., depression, anxiety, OCD, ADHD, Alzheimer’s). These questions are addressed using a combination of behavioral and neural measures (EEG, fMRI), combined with computational modeling.

Anthony Spirito, Ph.D.
Professor and Vice Chair

Dr. Spirito has focused the majority of his most recent research efforts on treatment efficacy.

He conducted some of the first studies on brief interventions in the Pediatric Emergency Department, two for adolescents with an alcohol-related admission and another for adolescents who made a suicide attempt. He is currently collaborating with other Brown faculty on the use of brief in-person and computer-based interventions for adolescents in the juvenile justice system who abuse substances. He is also conducting a safety planning intervention in juvenile justice. Along with colleagues
in the Department, he completed three treatment development studies to determine if combined approaches, e.g., exercise and CBT for overweight adolescents, can increase the efficacy of treatment for adolescent depression. He helped develop and then transported an integrated CBT protocol for adolescents with substance use disorders, NSSI, depression, and suicidality to the community and instructed licensed mental health counselors in its use. He and his colleagues recently completed a study testing the comparative efficacy of this protocol versus standard care in a community mental health clinic as well as in a larger efficacy trial with a sample of adolescents discharged from inpatient psychiatric care. He is also collaborating on a Rhode Island Department of Health grant designed to divert youth in schools with mental health emergencies from the Emergency Department to less expensive, and more appropriate, levels of care whenever possible.

Michael Stein, M.D.
Adjunct Professor, Department of Medicine

Dr. Stein is an internist based at Butler who is an internationally known HIV and substance abuse researcher, having served as PI of more than 20 NIH-funded clinical trials. Dr. Stein’s interests span populations, substances (opioids, marijuana, alcohol, cigarettes), and treatments (relapse, retention, medication adherence, medical complications, sleep, HIV risk). He has mentored investigators across departments, including the DPHB. He has served on training grants from NIDA, NIAAA and NIMH, and co-directed a K12. His mentees have received over a dozen K grants, and many are faculty with R-awards. He is part of the NIDA T32 based at Center for Alcohol and Addiction Studies. Dr. Stein is currently PI three R34’s, two R21, and five R01s from NIH.

Laura Stroud, Ph.D.
Professor

Dr. Laura Stroud has an AB in Human Biology from Stanford University, and received a Ph.D. in Psychology from Yale University in 1999. She completed her postdoctoral fellowship at Brown in 2001, then joined the faculty in the Department of Psychiatry and Human Behavior at Brown. She also serves as Senior Research Scientist and Founding Director of the Maternal-Infant Studies Laboratory and the Child and Adolescent Stress Laboratory at the Centers for Behavioral and Preventive Medicine, The Miriam Hospital. Since 2013, Dr. Stroud has also held a secondary appointment in the Department of Behavioral and Social Sciences in the School of Public Health at Brown. Dr. Stroud’s research focused on biobehavioral mechanisms of mood and addictive disorders. Her work involves a transdisciplinary, developmental framework incorporating both neurobiological and behavioral markers of risk and a focus on novel neurobehavioral and stress response paradigms. Her work includes a focus on two sensitive periods of development: fetal-infant transition and the adolescent/pubertal transition. Within the fetal-infant period, her work has focused on novel ultrasound measures of fetal development and biological (neuroendocrine and epigenetic) pathways through which effects of maternal smoking and depression are transmitted to the fetus. She has also developed a new line of research focused on the impact of marijuana use and novel tobacco products (hookah, electronic cigarettes) on pregnant mothers and infants. Within the adolescent period, Dr. Stroud’s work has focused on novel neural and neuroendocrine biomarkers of risk for adolescent depression. Dr. Stroud has been continuously funded by the National Institutes of Health since 2001. She has also been the recipient of three NARSAD awards from the Brain and Behavior Research Foundation, funding from the National Science Foundation, the US Food and Drug Administration (FDA), and the Robert Wood Johnson foundation. Dr. Stroud served as a Contributing Author on the 2016 Surgeon General Report, E-Cigarette Use in Youth and Young Adults. She also served as Associate Editor for Nicotine and Tobacco Research and has been the recipient of the Bruce Selya Research Excellence Award from Lifespan Hospitals and the Outstanding Early Career Investigator Award from the National Institute on Drug Abuse.

Robert Swift, M.D., Ph.D.
Professor

Robert Swift, M.D., Ph.D. received his BA, Ph.D., and M.D. (with honors) from the University of Chicago. He completed a residency in Psychiatry at Yale University and is Board Certified in Psychiatry and in Addiction Psychiatry. He conducts clinical and laboratory research on the pharmacological treatment of alcohol and drug abuse and dependence. He is a recipient of research grants from the National Institute on Alcohol Abuse and Alcoholism (NIAAA) and the National Institute on Drug Abuse (NIDA) and from foundations and pharmaceutical companies. He is the site Principal Investigator for the NIAAA COMBINE Study, a cooperative clinical trial investigating combined pharmacotherapy and psychotherapy in the treatment of alcohol dependence, and he has a national role as the head of the Pharmacotherapy Subcommittee. He serves frequently as a member of advisory committees to government agencies and industry.
He is a Distinguished Fellow of the American Psychiatric Association (APA), a member of the American College of Neuropsychopharmacology (ACNP), and the American Society of Addiction Medicine (ASAM), and is Secretary, a member of the Board of Directors and the Education Committee of the Research Society on Alcoholism.

Dr. Swift's area of academic interest is the neuropsychopharmacology of alcohol and drug dependence. Since 1984, he has have managed an externally funded alcohol research program that has conducted research funded by grants and contracts from institutes at the National Institutes of Health (NIH), foundations, pharmaceutical companies, and Brown University. Currently, he has active funding for several grants and contracts, for which he is the principal investigator (PI). These include a federally funded contract to develop an alcohol biosensor to provide real-time monitoring of blood alcohol levels and a federally funded grant, the multi-site National Institute on Alcohol Abuse and Alcoholism (NIAAA) cooperative COMBINE Study on combined pharmacotherapy and psychotherapy of alcohol dependence. He is a site-principal investigator for a Veterans Affairs (VA) Cooperative Study exploring the safety and efficacy of the alpha-2 agonist lofexidine in opiate withdrawal and site-PI for three industry-sponsored clinical trials (Pfizer, Bristol-Myers-Squibb, and Ortho-McNeill). He is a funded co-investigator on five other NIH grants at Brown University and other institutions around the country. Dr. Swift is currently conducting human laboratory research using an alcohol self-administration paradigm to explore the effects of medications such as topiramate and arizapiprazole in reducing alcohol consumption and the genetic factors that may influence risk taking during alcohol intoxication.

Brian B. Theyel, M.D., Ph.D.
Assistant Professor

Dr. Theyel is an academic clinician a research interest in basic neuroscience. His work concentrates on circuit abnormalities in autism, schizophrenia, and PTSD. He has special interest in the role that abnormalities in the pathway that connects thalamus to cortex has in these diseases. His main methodologic research involves the whole-cell patch clamp technique, local field potential recordings, in vitro neuroimaging, a cell-specific gene knockout strategy, and advanced neuroanatomical techniques. Dr. Theyel is also a clinician in the psychiatric emergency room at Butler Hospital, teaches a course for psychiatry residents entitled “Evidence Based Medicine,” and is an attending in the Residency Continuity Clinic at Butler Hospital. His work is supported by the laboratory of Barry Connors, Ph.D., the Department of Psychiatry and Human Behavior, the Norman Prince Neurosciences Institute, the Brown Institute for Brain Science, and the Simons Foundation.

Geoffrey Tremont, Ph.D.
Associate Professor

Geoffrey Tremont, Ph.D. completed his Ph.D. in clinical psychology from Nova Southeastern University, clinical neuropsychology internship at the University of Oklahoma Health Sciences Center, and clinical and research fellowship at Brown University. Dr. Tremont is an Associate Professor in the Department of Psychiatry and Human Behavior and Director of Neuropsychology at Rhode Island and The Miriam Hospitals. His primary research interest is psychosocial treatment for caregivers of individuals with dementia. He has received funding from the National Institutes of Health for his work.

Dr. Tremont is the author of over 90 peer-reviewed manuscripts and many presentations at national/international conferences. He serves on the editorial board for the Archives of Clinical Neuropsychology. In addition to caregiving research, he studies of awareness of deficit in dementia and mild cognitive impairment, cognitive reserve in age-related disorders, and professional issues in clinical neuropsychology. Dr. Tremont is currently investigating the utility of a telephone cognitive screening measure for detecting mild cognitive impairment. He is also involved in projects related to the emotional and cognitive benefits of yoga in psychiatric disorders and aging. He teaches clinical psychology trainees and provides clinical and research supervision to neuropsychology interns and postdoctoral fellows.

Wilson Truccolo, Ph.D.
Pablo J. Salame ’88 Goldman Sachs Assistant Professor of Computational Neuroscience Department of Neuroscience

Dr. Wilson Truccolo is a computational neuroscientist working on fundamental and translational aspects of neural dynamics at the intersection of Theoretical Neuroscience, Statistics and Neuroengineering. Dr. Truccolo received his Ph.D. in Complex Systems at Florida Atlantic University and did his postdoctoral training with Dr. John Donoghue at Brown. Dr. Truccolo became the Pablo J. Salame ’88 Goldman Sachs Assistant Professor of Computational Neuroscience in 2013. His laboratory develops stochastic models and computational tools to understand how brain function emerges from the
collective dynamics (coordinated activity) in neuronal ensembles, and how neurological disorders (e.g. epileptic seizures) result when these dynamics become pathological. Dr. Truccolo's research also focuses on understanding how information is encoded by the coordinated activity in neuronal populations, as well as how it can be decoded from measured neural activity. His long-term career goal is in integrating basic Neuroscience with applied research towards the development of brain-computer interfaces for assisting people with neurological disorders. His work has been published in leading scientific journals including Nature Neuroscience, Nature Communications and PNAS. Dr. Truccolo has received several awards including a K01 career award from the National Institutes of Health and a Merit Review award from the Department of Veterans Affairs. His lab has been supported by several research grants from the National Institute of Neurological Disorders and Stroke, Defense Advanced Research Projects Agency, National Science Foundation, Department of Veterans Affairs and Epilepsy Foundation. Research in the Truccolo lab involves extensive collaborations with experimental neuroscientists, neuroengineers, neurologists and neurosurgeons at Brown University and Rhode Island Hospital, and at Massachusetts General Hospital, Harvard Medical School. In addition, the Truccolo lab has trained 5 graduate students and 8 postdoctoral researchers in the past years, contributing to the formation of a new generation of computational neuroscientists.

**Audrey Tyrka, M.D., Ph.D.**
Professor

Dr. Tyrka received her M.D. and Ph.D. in medicine and psychology through a combined program at the University of Pennsylvania. She completed a psychiatry residency at Brown and further research training in clinical neuroscience at the Mood Disorders Research Program and Laboratory for Clinical Neuroscience at Butler Hospital and Brown University. Dr. Tyrka is Professor of Psychiatry and Human Behavior at Brown, Director of Research at Butler Hospital, and Director of the Laboratory for Clinical and Translational Neuroscience. Dr. Tyrka has been involved in residency training for 15 years and has served as research mentor to numerous residents and other trainees. She is Director of Research Training for the residency and PI of our NIMH-funded R25 research training program. Dr. Tyrka's research is focused on understanding the molecular biology of stress exposure and associated risk for psychopathology and related health conditions. She is particularly interested in childhood adversity and maltreatment, and studies adults and children with early stress exposure to understand genetic, epigenetic, neuroendocrine, cellular, and immune effects as they relate to risk for mood and anxiety disorders as well as medical conditions including diabetes and cardiovascular disease. The goal of this work is to understand the mechanisms of risk and protection and, ultimately, to use this information to guide prevention and treatment efforts. This work is currently funded by two R01s as well as a BIBS/NPNI New Frontiers collaborative award with Kevin Bath at Brown. In addition, Dr. Tyrka collaborates with Drs. Linda Carpenter, Lawrence Price, and Noah Philip on investigations of novel treatment approaches for major depression, including neuromodulation techniques such as transcranial magnetic stimulation.

**Lisa Uebelacker, Ph.D.**
Associate Professor

Dr. Uebelacker's interests center around developing and testing innovative psychosocial methods for treating depression and chronic pain, including collaborative treatment for depression and comorbid health conditions in primary care settings, and the use of yoga, exercise, and health education as adjunctive treatments for depression or chronic pain. Ongoing NIH-funded projects include: Initiating and Maintaining Physical Activity in Depressed Individuals, Improving Functioning in HIV Patients with Chronic Pain and Comorbid Depressive Symptom, and Adaptation and Pilot Study of Yoga to Reduce Depression in Adolescents.

**Takeo Watanabe, Ph.D.**
The Fred M. Seed Professor, Department of Cognitive, Linguistic and Psychological Sciences

Dr. Watanabe has the reputation of a world-leading researcher of perceptual learning and visual plasticity. He has used various methods including psychophysics, fMRI, MRS, DTI, MEG and EEG. He has published more than 130 papers, among which around 40 papers were published in high-impact journals including Nature and Science. Dr. Watanabe has been awarded more than 10 grants from NIH. He served the Sensory, Perception and Cognition Study Section in NIH as a regular member. Recently he and his lab members have developed an online-fMRI neurofeedback method (2001, Science) by which brain functions can be changed without subject's awareness. This method has been applied to people with psychiatric disorders and diseases.
Dr. Lauren Weinstock has an AB in psychology and French from Duke University and an MA and Ph.D. in clinical psychology from the University of Colorado at Boulder. She completed her predoctoral internship in clinical psychology at Brown University in 2005, and continued in the DPHB as a postdoctoral fellow until transitioning to the faculty in 2008. Her early research training was supported by numerous awards, including an NIMH predoctoral Intramural Research Training Award, individual predoctoral and postdoctoral NIMH National Research Service Awards, an NIMH Mentored Career Development Award, and a Young Investigator Award from the American Foundation for Suicide Prevention (AFSP). Dr. Weinstock's current NIH- and foundation-supported research program focuses on development and evaluation of adjunctive behavioral interventions for severe mood disorders and suicide prevention, especially during vulnerable care transitions (i.e., from inpatient to outpatient treatment, across the perinatal period, and from criminal justice to community settings). In addition to her appointment in the DPHB, Dr. Weinstock is a faculty affiliate of the Center for Prisoner Health and Human Rights and a member of the Military Suicide Research Consortium. She has authored over 50 scientific publications in these areas, is on the editorial board for the journal *Behavior Therapy*, and was recently invited to serve as an AFSP Scientific Advisor. Dr. Weinstock has also served on numerous federal workgroups focused on best practices in bipolar disorder and suicide prevention research and treatment.

Laura Whiteley, M.D.
Assistant Professor

Dr. Laura Whiteley received her B.A. from the University of Pennsylvania, in which she graduated with honors in her major, and Magna Cum Laude. She completed her M.D. from Temple University School of Medicine. Laura completed her adult psychiatry residency, child and adolescent psychiatry fellowship, and a T32 research fellowship in the Department of Psychiatry and Human Behavior at Brown University. She founded the Young Adult Behavioral Health Program at Rhode Island Hospital and received a Rhode Island Foundation Grant for her work with colleges and young adults in 2014. Laura's federally funded research focuses on the bio-behavioral aspects of HIV for young adults. She has received funding from the NIMH, NICHD, and the Lifespan/Tufts/Brown Center for AIDS Research (CFAR). Laura is currently the PI on a R01 examining the efficacy of an iPhone game in promoting adherence to ART for adolescents and young adults living with HIV. She is also the PI on two NIMH R34s that examine the use of PrEP (Pre-exposure Prophylaxis) to prevent HIV. She is the Co-Investigator on federally funded studies examining the use of teledmedicine to provide HIV prevention services in the southern United States and family interventions for gay and bisexual adolescents living in Jackson, Mississippi. She is a dedicated mentor to residents and medical students and has received both the Brown Department of Psychiatry and Human Behavior Research Mentorship Award and the American Academy of Child and Adolescent Psychiatry Research Mentorship Award.

Rena Wing, Ph.D.
Professor

Rena R. Wing, Ph.D. is a Professor of Psychiatry and Human Behavior at the Alpert Medical School and The Miriam Hospital. She is the Director of the Weight Control and Diabetes Research Center. Dr. Wing is well known for her research on behavioral treatment of obesity and particularly its application to type 2 diabetes. She has published over 350 peer-reviewed articles on these topics. Currently, she is principal investigator at The Miriam Hospital site for a fifteen-center NIH-funded trial entitled “Look AHEAD” and serves as chairperson of this multi-site study. Dr. Wing has served as a member of the council for NIDDK and on the NIDDK Task Force on the Prevention and Treatment of Obesity.

Dr. Wing's research focuses on behavioral treatment of obesity and addresses the following questions: What are the health benefits of modest weight loss? How can we improve behavioral treatment of obesity? Is it possible to prevent weight gain and subsequent obesity? What are the characteristics of successful weight loss maintainers?

Shirley Yen, Ph.D.
Adjunct Associate Professor

Shirley Yen, Ph.D. is a graduate of the University of Chicago (BA) and received her doctorate in clinical psychology from Duke University (Ph.D.). Dr. Yen's research focuses on identifying risk factors and developing interventions for suicidal behaviors in adolescents and adults. Dr. Yen has been an NIMH-funded investigator for the past 20 years. As an investigator on prospective, longitudinal studies of youth with bipolar disorder, adults
with personality disorders, and suicidal adolescents, Dr. Yen has examined prospective predictors of suicidal behavior. She has also been the principal investigator of three adjunctive transdiagnostic interventions for suicidal adolescents. She is currently piloting an acceptance based intervention for youth with psychosis, a positive affect intervention for young adult outpatients which utilizes text messaging to enhance skills practice, and a yoga intervention for depressed adolescents. She is also conducting research to examine mechanisms of suicide risk in sexual minority adolescents.

Amin Zand Vakili, M.D., Ph.D.
Assistant Professor

Dr. Zand Vakili's research focuses on electrophysiological techniques to understand the neurobiology of mental illness and the ways in which neuromodulation treatments change brain circuitry. Dr. Zand Vakili employs Machine Learning and analytical tools to analyze electroencephalography data recorded in patients as they undergo transcranial magnetic stimulation (TMS) for treatment of Depression and PTSD.

Dr. Zand Vakili's research is funded by a variety of sources, including a mentored research award from NIH and Brown University's Advance-CTR as well as a pilot project award from Department of Veterans Affairs' Center for Neurorestoration and Neurotechnology.

Dr. Zand Vakili also holds a clinical appointment as a Psychiatrist at the Providence VA Medical Center.

Mark Zimmerman, M.D.
Professor

Mark Zimmerman, M.D. is the Director of Outpatient Psychiatry at Rhode Island Hospital and the Miriam Hospital, and Director of the Partial Hospital Program at Rhode Island Hospital. Dr. Zimmerman is also the principal investigator of the Rhode Island Methods to Improve Diagnostic Assessment and Services (MIDAS) project (www.MIDASproject.org) The overarching goal of the MIDAS project has been to integrate research methodology into routine clinical practice in order to improve clinical practice and examine a number of clinically important issues related to assessment, diagnosis and treatment outcome. The MIDAS project is an ongoing clinical research project that began more than 20 years ago. To date, approximately 4,000 patients presenting for treatment at the Rhode Island Hospital Department of Psychiatry outpatient practice have been evaluated with semi-structured diagnostic interviews making this the largest clinical epidemiological study ever conducted. Approximately 10 years ago the MIDAS project was extended to the evaluation of candidates for bariatric surgery, with more than 3,500 candidates being evaluated.

Some of the clinically relevant issues examined in the MIDAS project include the under detection of diagnostic comorbidity in clinical practice, depressed patients' opinions regarding the most important factors to consider in determining remission, the over diagnosis of bipolar disorder, and the under recognition of medication side effects.

By developing a large data-base containing symptom ratings and diagnoses based on semi-structured interviews, we were able to examine the generalizability of antidepressant efficacy trials by applying the exclusion criteria typically used in these studies to patients evaluated in routine clinical practice. In a paper published in the American Journal of Psychiatry we found that only a minority of patients evaluated in the MIDAS project would have qualified for an efficacy trial. Other papers from the MIDAS project elaborated on the issue of the generalizability of efficacy studies of depression.

One of the goals of the MIDAS project has been to develop measures for use in clinical practice. The Psychiatric Diagnostic Screening Questionnaire (PDSQ) is a broad-based self-report measure screening for the most common psychiatric disorders presenting in outpatient practice. The Clinically Useful Depression Outcome Scale (CUDOS) and Clinically Useful Anxiety Outcome Scale (CUXOS) were developed for use in routine clinical practice. To facilitate a measurement-based care approach towards treatment a website has recently been developed for internet administration of these scales as well as a self-report scale (www.outcometracker.org). A study of its reliability, validity, and patient acceptability of internet-based outcome assessment was published in the Journal of Clinical Psychiatry.

We also developed a new type of measure to determine if a depressed patient is in remission (the Remission from Depression Questionnaire). In contrast to the traditional approach towards determining remission based only on symptoms, the RDQ also assesses non-depressive symptoms common in depressed patients, functioning, coping ability, positive mental health, life satisfaction and a general sense of well-being. Recently published research found that patients considered the multifactorial RDQ a more accurate indicator of their goals of treatment and more closed associated with self-perceived remission status than a purely symptom measure of depression.
Most recently the clinical research group developed a new measure of patient satisfaction, and have thus far published 3 papers on its reliability and validity.

Four years ago our group expanded the MIDAS project to include the partial hospital program. We recently recruited our 4000th patient into the study and will be examining the effectiveness of partial hospital treatment because we have taken a measurement-based care approach towards treatment.

To date more than 250 articles have been published based on the MIDAS project dataset. In total, Dr. Zimmerman is the author of more than 400 articles published in peer-reviewed journals, and serves on the editorial board of 10 journals (including Associate Editor of the Journal of Personality Disorders and Psychiatry Research). He also is the author of the Interview Guide to Diagnose DSM-5 Psychiatric Disorders and the Mental Status Examination.

**Caron Zlotnick, Ph.D.**
Professor

Dr. Caron Zlotnick’s research interests focus on interventions for vulnerable financially disadvantaged women. Currently, she is PI on several NIH funded studies that includes computer-based interventions for perinatal women with mental illness and intimate partner violence, for pregnant with women with HIV risk and substance use, women residents of a battered women shelter with substance use, veteran women with histories of sexual trauma, and implementation of postpartum depression prevention intervention. She has also co-authored published articles on postpartum depression, intimate partner violence, and incarcerated women.

**Websites for Additional Information**

**Department of Psychiatry and Human Behavior (DPHB) Websites**
Department of Psychiatry and Human Behavior (DPHB) Home Page
med.brown.edu/DPHB

Alpert Medical School of Brown University Home Page
med.brown.edu

Brown University Directory
directory.brown.edu/search

Department of Psychiatry and Human Behavior (DPHB) Faculty Information
brown.edu/academics/medical/about/departments/psychiatry-and-human-behavior/faculty

Department of Psychiatry and Human Behavior (DPHB) General Psychiatry Residency Program
med.brown.edu/DPHB/training

**Centers and Institutes**
Advance Clinical Translational Research (Advance-CTR)
brown.edu/initiatives/translational-research/home

Brown Center for Biomedical Informatics
brown.edu/academics/medical/about-us/research/centers-institutes-and-programs/biomedical-informatics

Brown Center for Statistical Sciences
http://www.stat.brown.edu

Brown Center for the Study of Children at Risk
brown.edu/research/projects/children-at-risk

Brown Genomics Core Facility
brown.edu/research/facilities/genomics

Carney Institute for Brain Science (formerly BIBS)
brown.edu/academics/brain-science

Brown MRI Research Facility
brown.edu/research/facilities/mri

Brown School of Engineering
brown.edu/academics/engineering

Brown School of Public Health
brown.edu/academics/public-health

Brown University AIDS Program (BRUNAP)
brown.edu/academics/public-health/centers/aids-program

Brown University Center for Alcohol and Addiction Studies (CAAS)
brown.edu/academics/public-health/research/alcohol-addiction-studies
Research Opportunities for Residents 2018/19