DEPARTMENT OF PSYCHIATRY AND HUMAN BEHAVIOR

Research Opportunities for Residents 2017/2018
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Welcome from the Chair

You have each completed eight arduous years preparing for the moment when you will finally get your first paycheck as a physician! With it will come the responsibility of using what you have learned to help others. 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 of who you will become with us.

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 the department with the most external funding, 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. 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. I encourage you to closely examine the breadth, depth, and overall excellence of our Department on your visit.

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 & Human Behavior (DPHB) at Brown is at the cutting edge of advances in our basic understanding of brain function.
Welcome from the Director of Research Training for the Residency

The Department of Psychiatry and Human Behavior (DPHB) provides outstanding research programs and training opportunities for our psychiatry residents. The areas of interest and expertise in the department have remarkable breadth and depth, and the department is considered one of the most outstanding academic psychiatry departments in the country. Our superb faculty are conducting leading-edge work on the causes, mechanisms, and novel treatments for a range of psychiatric conditions, and are also known for their collaborative spirit, accessibility to residents and other trainees, and dedication to research mentoring. The DPHB has an R25 grant funded by the National Institute of Mental Health (NIMH), which offers rigorous and supportive research training with substantial protected research time for residents. We are one of the few departments in the country with an R25 research training grant, attesting to the excellence of our faculty and our residents. These characteristics make Brown an ideal place for residents to do research.

Why do research as a resident? Research is exciting – it is about generating new knowledge, exploring unanswered questions, and moving the field forward. Doing research is extremely rewarding intellectually: it involves engaging your curiosity about patients and science, using critical thinking and analytic skills, writing and communicating, and working with mentors and colleagues on important and challenging problems that aim to improve the care and well-being of our patients. If you are already interested in pursuing a research career, doing research as a resident will be an invaluable experience that will provide critical opportunities for the future. Getting involved with research as a resident will also offer valuable experience, skills, and insight if you decide to pursue other types of careers. A research experience is optional, and it can be a large or small part of your residency training at Brown.

My goal is to make research accessible to all interested residents -- to help you learn about research, offer a wide range of research opportunities, help you find a research mentor in your area of interest, and make research a valuable and rewarding part of your training. Research experiences are tailored to each person, so they fit your needs and enhance your training experience.

Our NIMH-funded R25 grant gives selected residents a structured and supportive program in which to do in-depth research during residency. Our department has many outstanding researchers and mentors with whom residents can work. Residents who are interested in pursuing basic science or translational research may also work with outstanding 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.

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.
Please note, there is no separate application or match number for our research track. 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 PGY-1 year. We offer two research-focused interview days as part of our interview schedule for those who are interested in our research track.

Department of Psychiatry and Human Behavior (DPHB) Research Overview

The Department of Psychiatry and Human Behavior (DPHB) at Brown University has a research portfolio that is outstanding in terms of its breadth and depth. Our research faculty are highly productive and have been awarded approximately $55.7 million (direct and indirect costs for the 2016-2017 academic year) in externally funded research.

Currently, more than 100 faculty members are principal investigators on more than 280 research grants. Funding sources include the National Institute of Mental Health, National Institute of Child Health and Human Development, National Institute on Drug Abuse, National Institute of Alcohol Abuse and Alcoholism, National Cancer Institute, Department of Veterans Affairs, foundations, and industry.

Areas of Research Focus

Research in the DPHB covers a broad range of topics, from neuroscience to clinical research to implementation of evidence-based treatments. The majority of our external funding comes from our child and adolescent, adult, and behavioral medicine divisions. Areas of particular strength in the child and adolescent division include autism and intellectual disability, behavioral aspects of asthma, high-risk behavior in children, the role of early stress in the development of psychiatric conditions, bipolar disorder, OCD, suicide, sleep, and childhood obesity. Areas of particular strength in the adult division include Alzheimer’s clinical trials, treatment of psychiatric disorders in general medical settings, bipolar disorders, neuromodulation of mood and anxiety disorders, postpartum depression, biology of stress- and trauma-related disorders, obsessive-compulsive spectrum disorders, PTSD, and neuroimaging of depression and PTSD. Areas of particular strength in the behavioral medicine division include sexual health, obesity, exercise, and stress.

Collaborative interactions among campus-based departments that are members of the Brown Institute for Brain Science and the DPHB are long standing and well developed. Emerging collaborations between the DPHB and Brown’s new school of Public Health are beginning to attract significant federal funding and philanthropic support. Rhode Island’s size offers a unique opportunity to study epidemiologically defined clinical populations longitudinally with predictive biomarkers while testing new treatments. Large-scale projects in minimal cognitive impairment and autism are two examples of interdisciplinary studies of this type that are in progress at Brown and its affiliated hospitals.

The DPHB is one of the departments in the Brown Institute for Brain Science (see below). The Institute is a unique interdisciplinary organization that promotes translational research on the brain. It includes more than 100 faculty from a diverse group of departments at Brown, spanning basic and clinical departments as well as physical and biological sciences.

The DPHB also has research collaborations with many other Institutes, Centers, Departments, and core resources at Brown that do research relevant to mental health (see descriptions below). These include the Norman Prince Neuroscience Institute, the VA Center of Excellence for Neurorestoration and Neurotechnology, the Hospital Imaging Research and Education Service, the Brown MRI Research Facility, Advance Clinical and Translational Research, the Genomics Core Facility, and the Laboratories for Molecular Medicine. Additional research collaborations include the Butler Hospital Neuromodulation Research Facility Core, the Quantitative Science Program, the Brown School of Public Health, the Brown School of Engineering, the Brown Center for Alcohol and Addiction Studies, the Centers for Behavioral and Preventive Medicine, the Center for the Study of Children at Risk, Cores RI, and the Departments of Neuroscience, Molecular Biology, Cell Biology & Biochemistry, and Cognitive, Linguistic & Psychological Sciences.
Faculty Members
Research in the Department of Psychiatry and Human Behavior is conducted by outstanding faculty members who are nationally and internationally known for their research contributions, grant funding, publications, and honors and awards, as well as their other scholarly activities (see biographical sketch section for information on selected faculty). While our faculty's research and scholarly accomplishments are impressive, our faculty are also known for something else: their collaborative spirit, accessibility to trainees, and dedication to mentoring. Psychiatrists, psychologists, neuroscientists, and members of other disciplines fruitfully collaborate with one another on a wide range of studies. Research faculty welcome the involvement of residents and the opportunity to provide research mentoring. These characteristics make Brown University an outstanding environment for residents to obtain a research experience.

Many of our research faculty collaborate with faculty from other Brown departments who are doing research that is relevant to mental health, such as the Departments of Neuroscience, Molecular and Cell Biology, Engineering, and Cognitive, Linguistic, & Psychological Sciences. Residents who are interested in pursuing basic science or translational research can elect to work with faculty in these departments.

Interdisciplinary Collaborations
Much of the research done at Brown is interdisciplinary, involving strong collaborations between psychiatrists and psychologists within the department, as well as collaborations with pediatricians, primary care physicians, neuroscientists, molecular biologists, immunologists, neurologists, neurosurgeons, engineers, educators, epidemiologists, and economists outside the department. This research effort is highly disease-focused and translational, so that even more basic research efforts are closely tied to clinical issues and patient care. The DPHB 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, Departments, and Core Resources
Brown has multiple Institutes and more than 18 Centers that encourage interdisciplinary scholarly work. Each Center is home to a robust research program. Below we provide brief summaries of some of the Institutes, Centers, departments, and core resources that are accessible to DPHB faculty and trainees.

Brown Institute for Brain Science
Created in 2000, the Brown Institute for Brain Science comprises more than 100 Brown faculty and spans 13 departments, including the Department of Psychiatry and Human Behavior. The Institute includes basic and clinical departments, as well as the physical and biological sciences, and it provides a mechanism to advance interdisciplinary research efforts among this broad group of departments. Many psychiatry faculty have an active role in the Institute. The Brown Institute for Brain Science has elevated Brown into the top tier in brain science teaching and research.

The Institute fosters the formation of new interdisciplinary research teams, facilitates efforts to obtain funding for multi-investigator research projects, provides seed research funding (for which residents may apply), supports trainee and student training, and sponsors many lectures and colloquia. 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.

The Institute also works to establish critical research infrastructure, exemplified by the Institute's core facilities, which include a research-dedicated 3T PRISMA MRI, a state-of-the art mouse genomics facility, a genomics core, next generation sequencing, and a behavioral phenotyping core.

The Institute for Brain Science has three major aims:

• Understand fundamental genetic, molecular, cellular, circuit, and systems functions that underlie higher brain functions.

• Improve brain health by revealing mechanisms of disease and injury and by implementing new therapies for brain disorders.

• Create neurotechnology to repair the brain or replicate the brain's capacity to understand and learn.
Norman Prince Neurosciences Institute
This Institute is composed of leadership from the Departments of Psychiatry, Neuroscience, Neurology, Neurosurgery, Pathology, Neuroradiology, and Emergency Medicine. The Institute is dedicated to advancing the neurosciences and reducing human suffering from disorders of the nervous system through world-class research, outstanding clinical care, and advanced education.

The Institute's goals are to:

- Conduct rigorous, innovative research that unites and leverages the strengths of its partners – Rhode Island Hospital and its Hasbro Children's Hospital, Butler Hospital, Bradley Hospital, Brown University, and the Providence VA Medical Center
- Provide exceptional clinical care that is delivered with compassion and informed by current, cutting-edge science
- Educate a new generation of physicians and scientists to conduct collaborative, creative science and deliver the highest caliber of medical care

The VA Center of Excellence for Neurorestoration and Neurotechnology
This Center is a collaboration between the Providence VA Medical Center, Brown University, Butler Hospital, the Lifespan hospital system, and Massachusetts General Hospital. The Center focuses on research to develop innovative treatments in order to enhance function in patients with paralysis, limb dysfunction or amputation, and illnesses such as PTSD, chronic pain, and depression. The Center has a clinical support core and a neuroimaging core (functional and structural MRI, motor physiology, and EEG) to assess neural mechanisms associated with therapeutic and functional change after investigational therapies.

Hospital-Imaging Research and Education Service (HI-RES)
HI-RES is a joint venture with the Departments of Neurology, Neurosurgery, Psychiatry and Human Behavior, and Diagnostic Imaging and the Norman Prince Neurosciences Institute at Brown. HI-RES is focused on advancing education and research in the use of imaging. The education mission is to bolster the inter-disciplinary education of hospital-based trainees in the use of imaging—particularly neuroimaging—to advance the understanding the biological basis of neurodevelopmental disorders. This includes didactic sessions, journal clubs, and hands-on sessions with trainees, including M.D., Ph.D., and M.D./Ph.D. trainees. The HI-RES research mission is to foster collaborative research involving imaging with the stakeholder departments. This can include trainees who are interested in hands-on research projects as well as hospital-based faculty. HI-RES has two imaging analysis and education centers, one at Rhode Island Hospital and the other at Butler Hospital. HI-RES also utilizes Brown University's High Performance Computing Center (HPC).

HI-RES serves both the Lifespan hospitals (Rhode Island Hospital, Hasbro Children's, Bradley Hospital, Miriam Hospital, and Newport Hospital) and Care New England hospitals (Butler Hospital, Women and Infants Hospital, and Kent County Hospital), which are affiliated with the Warren Alpert Medical School of Brown University. Daniel P. Dickstein, M.D., (Associate Professor of Psychiatry and Human Behavior) is the Director of HI-RES, having spent the past decade as a pediatrician and psychiatrist who conducts neuroimaging research on the brain/behavior basis of neuropsychiatric illnesses, including bipolar disorder, ADHD, anxiety disorders, and autism. Derek Merck, Ph.D., (Assistant Professor of Diagnostic Imaging and Engineering) is the technical director of HI-RES and brings his background in computer science to the task of data analysis and infrastructure as well as 3-dimensional image reconstruction for procedure planning.

Rhode Island Center for Clinical and Translational Science
The Rhode Island Center for Clinical and Translational Science (RI-CCTS), now known as Advance CTR, serves as a central hub to support and educate clinical and translational researchers in Rhode Island. The Center's goal is to enhance collaboration and coordination of translational research in order to accelerate cross-disciplinary discoveries that improve health. The RI-CCTS does the following:

- Fosters coordination between translational researchers at our partner institutions.
- Brings together the diverse clinical research resources to provide a home that facilitates new collaborations.
- Eliminates obstacles that may prevent researchers from pursuing clinical research initiatives.
- Educates, mentors, and encourages junior investigators in clinical research professional development.
- Facilitates research to gather preliminary data necessary for developing competitive research proposals.
- Sustains a clinical translational research environment by providing the necessary management and coordination of resources.

**Butler Hospital Neuromodulation Research Facility Core**
Recognizing the emerging importance of noninvasive stimulation of neural substrates as a therapeutic and research tool, a 2013 Brown Institute for Brain Sciences equipment grant initiated the formation of a noninvasive brain stimulation core resource for Brown-affiliated researchers. The Butler Hospital Neuromodulation Research Facility Core is dedicated to facilitating Brown-affiliated researchers' access to, and safe use of, noninvasive brain stimulation technologies (including transcranial magnetic stimulation [TMS], transcranial stimulation with direct [tDCS], or alternating current [tACS], and investigational low field magnetic stimulation devices), with tools for precision brain targeting and noninvasive physiologic monitoring. Residents, fellows, medical and nursing students in education and training programs affiliated with Brown gain exposure to available and emerging neuromodulatory treatments during elective clinical rotations on the Butler TMS Neuromodulation service and affiliated Providence VA Psychiatric Neuromodulation Clinic.

**Quantitative Science Program**
The Quantitative Science Program (QSP) provides methodological and statistical consulting services and training, and engages in NIH-funded research, in areas related to methodology, including new instrument development and validation (topic area: acute confusion, delirium) and data harmonization (topic area: cognitive aging, including Alzheimer's disease). The QSP also collaborates with ongoing and proposed research at Brown and across the nation, and conducts independent and methodologically focused research projects. Training occurs in seminars, workshops, and individual mentoring and training sessions. Areas of focus and specialization include randomized controlled trials, longitudinal data analysis, measurement, and psychometrics. The QSP supports an interest group called AMPHIBIAN - Applied Methodology in Psychiatry, Human and Social Behavior and Neurosciences. A monthly working group discusses methods and methodology in the clinical neurosciences.

**Data Sciences Initiative**
The Data Science Initiative leverages academic strengths at Brown University to create a new hub for research and education in foundational methodologies of data science. The Initiative is a cross-disciplinary collaboration between four core departments: Applied Mathematics, Biostatistics, Computer Science, and Mathematics. The goal is to deepen Brown's data science expertise and create new opportunities for innovation in both the methods and the application of Data Science. The Initiative is building relationships with a range of industry partners to broaden opportunities including research collaborations for students, postdocs, and faculty. The Initiative offers lectures and colloquia, and has a number of ongoing research projects including a project focused on computational psychiatry, combining theory-driven and data-driven approaches to understand impulsivity.

**Brown School of Public Health**
The Brown School of Public Health coordinates and integrates academic, research, and public service programs relevant to population health. Public Health educational programs include undergraduate concentrations in community health and biostatistics; a fully accredited M.P.H. Program; Master of Science degrees in biostatistics, epidemiology, and behavioral and social science intervention; and doctoral programs in epidemiology, biostatistics, and health services research. There are three post-doctoral training programs funded by the Agency for Healthcare Research and Quality, the National Institute on Drug Abuse, and the National Institute on Alcohol Abuse and Alcoholism. Research is focused in 11 highly productive, multi-disciplinary centers and institutes.
Brown Center for Alcohol and Addiction Studies
The Brown Center for Alcohol and Addiction Studies has had a close relationship with the DPHB for more than three decades. Center faculty conduct empirical research in a variety of areas related to alcohol, drug and tobacco use, including laboratory investigations of mechanisms, treatment, early intervention, and policy. Funding comes from the federal government and a variety of foundations. The Center also provides comprehensive research training to predoctoral and postdoctoral research fellows.

Behavioral Medicine Division
Behavioral Medicine represents a large and productive division of the DPHB and is coordinated by the Centers for Behavioral and Preventive Medicine. Ranging from biological investigations to public health concerns, this division is a prominent contributor to research findings in the field. Embracing the entire human life span, Behavioral Medicine investigates such topics as health promotion among women, health communications and technology, smoking cessation, weight and diabetes control, the psychological effects of physical activity, HIV/AIDS research, and cardiovascular risk.

CoresRI
CoresRI, a valuable resource for Rhode Island’s research community, is a searchable online database of research instrumentation and services at academic and medical institutions across the state. Researchers can search by facility, institution, academic discipline, or keyword to locate a range of scientific tools in facilities at Brown, its affiliated hospitals, and academic institutions in Rhode Island. CoresRI lists more than 500 instruments and services, all of which are available to physicians, scientists, and engineers, regardless of institutional affiliation. The site facilitates access to core research technologies and is meant to foster collaboration and support across institutional lines.

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 DPHB 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 the department. Attendees include hundreds of faculty, residents, graduate students, and other trainees from the DPHB and the departments of Neurology, Neurosurgery, Neuroscience, and Psychology, Cognitive and Linguistic Sciences), as well as members of the local and regional community.

The program includes a distinguished panel of lecturers from within our department and a keynote address. 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, PhD, 2000 Nobel Laureate and Vincent Astor Professor at the Laboratory of Molecular and Cellular Neuroscience at the Rockefeller University; Alan Schatzberg, MD, Kenneth T. Norris Jr. Professor and former Chairman of the Department of Psychiatry and Behavioral Sciences at the Stanford University School of Medicine; Husein K. Manji, MD, 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, MD, 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, MD, 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.
Teaching Workshops
The DPHB also holds Teaching Workshops annually. These workshops allow national leaders, the Rhode Island and regional community, and our faculty, residents, and trainees a venue in which to discuss the groundbreaking teaching and education initiatives and programs being conducted within the department and beyond.

Research Opportunities for Residents at Brown

Introduction
Brown is an outstanding academic institution with many research opportunities for interested residents. Some of our major strengths include the following:

- An R25 grant funded by the National Institute of Mental Health (NIMH) that offers research training and substantial protected research time for selected residents from PGY-1 through PGY-4.

- Outstanding research faculty who are accessible and enjoy mentoring residents.

- A broad range of research topic areas, ranging from basic neuroscience to clinical research to health services/public health research.

- Numerous and ever-expanding collaborations among research faculty in the DPHB and other departments and schools at Brown, such as the Department of Neuroscience; the Department of Cognitive, Linguistic, and Psychological Sciences; the Department of Neurosurgery; the School of Engineering; and the School of Public Health.

- Brown University's substantial commitment to ongoing growth in the basic and clinical neurosciences/psychiatry, which will provide an even richer array of research opportunities for residents in coming years.

Our goal is to help interested residents learn about and participate in research activities and to tailor research experiences to each resident's interests and goals. A research training experience during residency can greatly enhance one's training and learning experience. It can also help residents meet their future career goals, especially if their goals focus on research or other scholarly activities.

A research experience is optional, and it can be a large or small part of a resident's training at Brown. In collaboration with a research mentor, residents can participate in ongoing projects or initiate their own research project. Protected research time is available from PGY-1 though PGY-4. Residents may also attend a resident research seminar and journal clubs; as their time allows they can attend research meetings in their mentor's laboratory, T32 postdoctoral research seminars, or other lectures and seminars in the Brown University community that are relevant to their research interests. Residents are supported in carrying out and completing one or more projects, and they are encouraged to publish their work and present their findings at local and national meetings.

The residency provides monetary support for travel to scientific conferences. Additional support is available to residents who present their research data at conferences.
Overview of the NIMH-Funded R25 Research Track

The R25 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.

The leadership team is composed of Audrey Tyrka, MD/PhD (the principal investigator), Noah Philip, MD (co-investigator), and Sara Vargas, PhD (co-investigator). The Residency Training Director, Tracey Guthrie, MD, works closely with the R25 leadership team to promote a balance and integration of clinical and research training over all four years of residency. You can learn more about the leadership team below.

The R25 track gives selected residents substantial protected research time during their training. Residents increase their involvement in the R25 research track with each successive year. The four core components of the R25 research track are the following:

1) Individualized longitudinal mentored research training experience: An individualized “hands-on” longitudinal mentored research training experience is the core of each resident’s research experience. This research training experience may have a clinical, translational, and/or a basic science focus, all of which are strengths at Brown. Based on their area of interest, trainees are matched with R25 faculty mentors and use a majority of their protected research time conducting research projects under their mentor(s)’ supervision. Residents progress from closely supervised introductory work in their mentor’s lab to greater independence and responsibility for their work. Residents are encouraged from the beginning of the program to develop their own ideas for more independent work, and all residents are expected to conduct their own mentored project by PGY3. Each resident’s research training is individualized to ensure an optimal training experience.

2) Research-focused didactic curriculum: All R25 residents also have dedicated time to participate in an individualized research-focused didactic curriculum consisting of courses and seminars. Seminars/courses cover key content areas that provide a conceptual framework for residents’ research, stimulate new ideas, facilitate their research, fill knowledge gaps, and provide a strong foundation for a future research career. Topics include translational neuroscience, treatment research, research methodology, ethics, statistics, grant writing, professional development skills, and other areas. Senior researchers lead most seminars/courses. Some didactics (such as grant writing and ethics) are required; these provide fundamental knowledge important to all R25 residents, regardless of their specific research focus. Other didactics are tailored to individual trainees’ research focus, stage of training, and unique educational needs.

Seminars/courses are sponsored by various Departments and Institutes at Brown; thus, R25 residents are exposed to trainees from other disciplines (e.g., psychology post-doctoral students, neuroscience graduate students), which enriches their training experience and offers opportunities for innovative cross-disciplinary research collaboration.

3) Career development: R25 residents are assisted with the development of their careers to enhance their future success as physician-scientists. This occurs via: 1) didactics that focus on career development skills; 2) attendance at a career-planning seminar that is led by our department chair, Dr. Steven Rasmussen; 3) mentoring by individual mentors and the R25 leadership team; and 4) sponsoring residents to participate in research-related activities and meetings at the national level, with the goal of fostering networking and the acquisition of knowledge and skills that will enhance residents’ future careers.

4) Products and outcomes: Specific productivity goals are established for each R25 trainee using individualized metrics. Products/outcomes include (but are not limited to) publications, poster presentations at local and national meetings, oral presentations, generation of pilot data for grant applications, and applying for research-related awards, especially those that enable residents to present and receive feedback on their research plans and ongoing projects. More advanced residents are encouraged to apply for grant funding.

The R25 Research Track in Each PG Year

Residents are expected to increase their research productivity and independence over the course of the residency. The protected time described below is dedicated to all four elements of the research track (see above).

- **PGY-1**: Residents apply for the R25-funded research track during PGY-1. An unlimited number of residents may participate during this year. From January-June, R25 residents have 10% protected time (one-half day a week).

- **PGY-2**: Residents have 10% protected time (excluding the two night float months). An unlimited number of residents may be selected to participate during this year.

- **PGY-3**: Up to three residents each have 33% protected time for research training during this year: two R25 positions and one VA-funded research position. Building upon groundwork laid in PGY-1 and PGY-2, residents work more intensively on all elements of the research track, including their hands-on research project(s). During this outpatient year, residents are...
encouraged to develop clinical expertise in an area relevant to their research focus, in addition to having a broad enough caseload to meet all ACGME requirements.

• PGY-4: Up to three residents each have 80% protected time for research training during this year: two R25 positions and one VA-funded research position. Residents are expected to work more independently and generate more products than in prior years. Residents work more intensively on plans to transition to the next career stage, which often includes writing grant applications.

The R25 Leadership Team

Audrey R. Tyrka, MD, PhD

Audrey R. Tyrka, MD, PhD, is Director of Research Training for the Brown University General Psychiatry Residency Program, Professor of Psychiatry and Human Behavior, and the principal investigator of the NIMH R25 research training grant.

Dr. Tyrka completed a combined M.D. and Ph.D. program in medicine and psychology at the University of Pennsylvania, funded by a Medical Scientist Training Program Fellowship and an F30 National Research Service Award. During her psychiatry residency training at Brown, Dr. Tyrka wrote a successful K23 career development application, and joined the faculty upon graduating in 2003. Her work on early life stress has been continuously funded by NIH for 14 years, and Dr. Tyrka is internationally recognized for her important contributions to understanding the metabolic, genetic, and epigenetic mechanisms of risk in maltreated children and adults with a history of childhood adversity. Dr. Tyrka has authored more than 100 publications and has received several awards for her scholarship, teaching, and research mentorship. She has served on numerous grant review committees, editorial boards of prominent journals, and national scientific committees.

Dr. Tyrka has been involved in residency training since 2003, teaching and supervising residents in clinical work and research. She has provided research mentorship to more than two dozen residents, other trainees and junior faculty members. Dr. Tyrka is committed to providing each resident with research resources and support so they can achieve their goals in residency and beyond.

Noah S. Philip, MD

Noah S. Philip, MD, is Associate Professor of Psychiatry and Human Behavior at the Alpert Medical School of Brown University, Director of Psychiatric Neuromodulation at the Providence VA Medical Center, and co-investigator for the NIMH R25 grant.

Dr. Philip received his BSc from McGill University, and his MD from Albany Medical College where he graduated AOA and with a Distinction in the Study of Biomedical Ethics. He completed psychiatry residency training at the Alpert Medical of Brown University, followed by an NIMH-sponsored T32 Fellowship at Brown and a Neuromodulation Fellowship at Butler Hospital.

Dr. Philip's research focuses on using technology to understand and treat depression and posttraumatic stress. To this end, he uses non-invasive brain stimulation (transcranial magnetic stimulation, transcranial direct current stimulation, etc.) and functional neuroimaging. Findings from studies in patients are used to guide the discovery of novel stimulation techniques, and characterize changes in brain function using neural network-based metrics. Dr. Philip is currently in his last year of a VA-based Career Development Award (CDA-2) and is supported by other brain stimulation grants from the VA and NIDA. He has been involved in research training in the residency since graduating from the program, and serves in national roles as a mentor in various professional organizations and career development activities.
Dr. Vargas received her PhD in Behavioral Medicine from the University of Miami. She came to Brown University as a postdoctoral fellow in 2013 and then joined the faculty as Assistant Professor (Research). Dr. Vargas’ content expertise is related primarily to women’s health, and sexual and reproductive health, and her recent research explores the use of technology to facilitate communication in health care including patient portals and e-health interventions.

Dr. Vargas is affiliated with The Miriam Hospital Centers for Behavioral and Preventive Medicine. Her expertise in both quantitative and qualitative research methods has led to numerous interdisciplinary collaborations with colleagues in medicine, public health, and bioengineering. Dr. Vargas is available to psychiatry residents in the R25 program for consultation regarding research methods and statistics.

Dr. Guthrie graduated from the University of Rochester School of Medicine and Dentistry. She continued her training in the Brown Psychiatry Residency Training Program where she was Chief Resident. She joined the Brown faculty in 1999. Dr. Guthrie has been involved with medical student education at Brown since 2002 and psychiatry residency training since 2005. She has served in many leadership roles within the Department including Associate Clerkship Director and Clerkship Site Director in Psychiatry for Brown medical students; Assistant and Associate Residency Training Director in the Department of Psychiatry and Human Behavior and Director of the Residency Continuity Clinic. Dr. Guthrie has received several teaching awards, including: The Outstanding Teaching Award, both in Medical Education and in General Psychiatry; The Innovation in Medical Education Award from the Memorial Hospital Internal Medicine Training Program; The Psychiatry Resident Award to Talented and Learned Educators (PRATTLE award); The Triple Board Program Teaching and Advocacy Award; and the Dean’s Excellence in Teaching Award.

As the training director, Dr. Guthrie provides essential feedback and support for our research-focused residents. Dr. Guthrie attends regular leadership meetings to ensure that our R25 leadership team is working in close collaboration with the training director to provide a well-balanced training experience for our residents.
Research Opportunities for General Psychiatry Residents

Residents may also pursue research interests without participating in the NIMH-funded R25 research track. The Director of Research Training guides non-R25 residents in choosing an area of research interest and finding a research mentor. Although non-R25 residents may start doing research as early as PGY-1, this is not required. We recommend that non-R25 residents who wish to do research begin doing so no later than the middle of PGY-3 to give them sufficient time to do meaningful work on a project and, ideally, participate in presenting and publishing their research findings.

Requests for protected research time are considered and granted if possible, depending on the resident's rotation requirements. For example, residents may use one-half day a week in PGY-3 to do an approved research project, and they can do a research elective during PGY-4 (see below).

All residents in all PG years are welcome to attend a resident research seminar that is overseen by the Director of Research Training (R25 residents are required to attend). The seminar covers a broad range of topics relevant to doing research. It includes didactic topics (for example, selecting a research topic, study design, ethics, writing a manuscript for publication) and career development issues. It also provides a forum for residents to discuss their research ideas and projects, practice presentations, and discuss manuscript drafts. As their time allows, PGY-3 and PGY-4 residents who are involved in research may attend the R25 Career Planning Seminar, which is led by Dr. Steven Rasmussen, our department chair, as well as research seminars and lectures offered by Brown's federally funded T32 research fellowships, the Brown Institute for Brain Science, and other Centers, Institutes, and Departments at Brown.

Residents are encouraged to publish their research findings and to present at local and national meetings.

Research Elective During PGY-4

The research elective rotation is an elective training experience for residents who do not participate in the R25. During this rotation, residents gain additional knowledge, skills, and experience relevant to conducting research. This rotation enables residents who are not participating in the R25, under the mentorship of a researcher faculty member, to conduct a research project, learn research methods, and gain other research-related skills. The rotation requires an interest in research and a commitment to conducting a research project.

This rotation occurs during PGY-4. The rotation is a minimum of one month and may be longer. It is expected that residents who participate in the full-time elective described here will have had some involvement in research or related scholarly activity earlier during their training.

Post-Residency Research Fellowships at Brown

Residents who are interested in a research career, and who would benefit from additional research training as a fellow, may apply for a position in a Brown University postdoctoral research fellowship. These fellowships provide additional research training after residency to further prepare for a research career. There are currently five federally funded research training fellowships (T32s) at the medical school that are affiliated with the Department of Psychiatry and Human Behavior. In addition, the Department of Neuroscience has a postdoctoral T32 research training grant that is funded by the National Institute of Mental Health.
Recognized Areas of DPHB Research Excellence*

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

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Adult
Child
Adult and Child
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 2016-2017 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 2016-2017 year. Grant listings may be repeated for co-investigators or subcontracts residing at different hospitals.

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From some of our research-focused residents....

B. Scott Pruett, MD, PhD (PGY-4)

I completed my Medical and Graduate training at Louisiana State University School of Medicine in Shreveport. For my Ph.D., I trained in the lab of Michael Salvatore, Ph.D., where I studied age-related changes in dopamine regulation in nigrostriatal and mesoaccumbens pathways with a primary focus on how these changes impact age-related movement deficiencies. From this work, I was fortunate to publish six manuscripts - two of which were first-authored publications - and over ten abstracts, and present at multiple venues including four Society for Neuroscience annual meetings. I also gave several invited presentations including a Department of Neurology Grand Rounds and a talk at a local Parkinson's Disease Symposium. This work also solidified my background in molecular neurobiology and neurochemistry and continues to serve me well in my current research.

As a resident at Brown, I am working with Eric Morrow, Ph.D., M.D., investigating a potential link between endosomal function and neurological disease. Dr. Morrow and his lab have already done pioneering work in both humans and animal models studying the sodium-hydrogen exchanger 6 (NHE6). In humans, loss of function mutations in this gene result in Christianson syndrome, an X-linked developmental disorder characterized most commonly by nonverbal status, intellectual disability, epilepsy, ataxia, microcephaly, hyperkinesis, and often associated with autism in affected males. I am now studying this potential link between endosomal function and brain pathology utilizing NHE6 knockout mouse.

I have immensely enjoyed my time in Providence and in the Brown psychiatry residency program. It has been an extremely open and flexible environment that has allowed me to further my research goals all while receiving excellent clinical training. From my fellow residents to the program directors, everyone is committed to making the program the absolute best that it can be all while recognizing the importance of appropriate work-life balance. Overall, it is an excellent program and one of which I am thrilled to be a part.

Amin Zandvakili, MD, PhD (PGY-4)

I received my MD from Tehran University and subsequently completed my Ph.D at Albert Einstein College of Medicine at the Department of Neuroscience. I studied coding of sensory information in the cerebral cortex and how populations of cells in different cortical areas communicate with each other. I developed a new statistical method which allowed me to identify population activity trends not otherwise apparent and found that communication in the brain relies on coordinated activity of neurons. My PhD work led to a number of publications and presentations including an article featured in the journal Neuron. I would like to build upon my previous work by studying neuromodulation techniques (e.g. repetitive Transcranial Magnetic Stimulation) and how they can affect and alter coordinated neural activity and thus change brain function. At Brown, I have been part of an interdisciplinary and highly collaborative team working with Dr. Benjamin Greenberg, co-director of the VA Center for Neurorestoration and Neurotechnology, as well as Dr. Stephanie Jones, Dr. Linda Carpenter and Dr. Noah Philip. I am greatly supported and encouraged to pursue my interests. I have received priceless advice and mentorship which has helped me in setting career goals and taking steps towards them.

Training as a psychiatry resident at Brown has enabled me to become a clinically competent psychiatrist and to pursue my research goals. Brown University is a neuroscience powerhouse with a unique collaborative environment. There are unparalleled opportunities for research mentorship ranging from basic science to clinical research, and the department as a whole is always available to offer invaluable help and guidance. The R25 training program has offered protected research time from the first year of residency, and funding is available for educational resources and also for attending scientific meetings and courses. Brown psychiatry has offered me the opportunity to expand my experience, gain new professional skills, discover novel ideas and build lasting relationships.
Rachael Blackman, MD, PhD (PGY-3)

I completed the Medical Scientist Training Program (MD/PhD) at the University of Minnesota, earning my PhD in Neuroscience in 2013 and MD in 2015. My PhD research focused on investigating the cellular basis for cognitive dysfunction in schizophrenia using an N-methyl-D-aspartate receptor (NMDAR) antagonist pharmacological model for the disease in non-human primates. From this work, I have published two first-authored papers to-date.

I was happy to have matched at Brown University given the strength of the research track. I am currently working with Dr. David Badre to develop a project using magnetic resonance imaging that examines cognitive dysfunction in schizophrenia patients. The research track has provided me with tremendous support and time to enable me to pursue my research interests and expand my research into developing human studies.

Andrew Novick, MD, PhD (PGY-3)

Prior to coming to Brown, I completed my dual MD/PhD training at the University of South Dakota. My main research interest is in exploring the neurobiological consequences of early life stress. With that, my PhD work in neuroscience focused on using an animal model of adolescent victimization stress and evaluating its effects on the developing prefrontal cortex dopamine system. Previous to that, as an undergraduate, I studied the role of the dopamine type-1 receptor in an animal model of depression. My work resulted in multiple peer-reviewed publications as well as the opportunity to present at various national meetings.

Having received my undergraduate degree in pharmacology, I also have a fascination with the intersection of psychopharmacology with social attachment, and as a medical student, I published a review entitled “Antidepressant psychopharmacology and the social brain” which was awarded 2nd prize in the Steven Kramer National Psychiatry Essay Contest.

Currently at Brown, as an R25 resident, I am fulfilling my goal of continuing research in early life stressors and its effect on dopamine-dependent functions. I am very fortunate to be under the mentorship of Audrey Tyrka MD, PhD, who besides being one of the co-directors of the R25 program, has built her career around elucidating the biological mechanisms of childhood trauma. Working under Dr. Tyrka, I am also part of our highly collaborative “Mood Disorders Research Team” which provides me the opportunity to work closely with and benefit from the expertise of several other psychiatric researchers.

Paul Bowary, MD (PGY-2)

I earned my MD at the American University of Beirut in May 2014. I then got a scholarship from the Brain Sciences Foundation that allowed me to move to Brown University and start working on pain research projects. At Brown, I have focused on leading a study that examined the effect of pain on brain oscillations in rat models. This study offered me and my team a First Prize Award at the 22nd Annual Lifespan Hospitals Research Symposium as well as helped in setting the groundwork for my second project at Brown. In fact, 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 oscillation.

My ultimate goal is to broaden my translational research aims to target the field of somatic symptom disorders. I am optimistic that such an approach would not only make psychiatry meet neuroscience but also make psychiatry meet primary care medicine. I believe that participating in the R25 research track is the ideal first step towards that goal.
Yosef Berlow, MD, PhD (PGY-2)

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. I first became involved in neuroimaging research shortly after graduating from Lehigh University when I joined the Geriatric Psychiatry Research Program at McLean Hospital. In this position, I participated in several neuroimaging studies investigating late life mood disorders and dementias, using a variety of imaging techniques, including spectroscopy (\(^1\)H, \(^3\)P, \(^3\)Li), diffusion tensor imaging, and volumetric analysis. I then joined the MD/PhD program at Oregon Health & Science University, where I continued to follow my interest in neuroimaging research. I completed my graduate training in the department of Behavioral Neuroscience and conducted my dissertation research under the mentorship of Dr. William Rooney at the Advanced Imaging Research Center. This research utilized quantitative relaxometry to investigate changes in brain tissue composition associated with psychiatric and neurological diseases, including substance abuse, Multiple Sclerosis, and Parkinson's disease, with a focus on investigating the role of brain iron accumulation in these conditions. 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.

Haizhi Wang, MD, PhD (PGY-2)

I earned my Ph.D. in the Neuroscience Program at Drexel University College of Medicine in Philadelphia, under the guidance of Dr. Aleister Saunders. In a cellular model of Alzheimer's disease, I used biochemical and molecular methods to investigate the processing of amyloid precursor protein, and studied how these events are altered when protein degradation is inhibited. From this work, I have published one first-authored article and one review. I also did some educational research under the guidance of Dr. Jennifer Stanford, and studied whether international undergraduate research programs could serve as a good mechanism to increase research-related gains and promote global competence in undergraduates.

Shiwen Yuan (PGY-1)

After medical education at Shanghai Medical College of Fudan University in China, I had two years of research experience in neuroimaging. Using diffusive tensor imaging, I reconstructed and studied the dorsal language pathway and its frontal endpoints. By comparing them with results from direct cortical stimulation during brain surgery, we were able to better understand the function of the posterior lower frontal lobe in the setting of motor aphasia. Later in 2016-2017, I worked under Dr. Carlos Zarate at the Experimental Therapeutics and Pathophysiology Branch of NIMH, on DTI study of the reward circuit in the context of ketamine treatment for MDD, and volumetric analysis of the hippocampus from 7T structural MR imaging in a similar sample. I also received TMS training under Dr. Sarah Lisanby at the Non-invasive Neuromodulation Unit of NIMH.

I am fascinated by the structural and functional changes of the brain in psychiatric disorders, and how neuromodulation can manipulate these changes and elicit treatment effect. With the great opportunity of the Brown University R25 program, I look forward to better understanding the mechanisms and finding optimal parameters for applying neuromodulation treatment for different patient groups.
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 & 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, MD**
Professor and Chair

**Dima Amso, PhD**
Associate Professor, Department of Cognitive, Linguistic & Psychological Sciences

**Michael Armey, PhD**
Assistant Professor

**Wael Asaad, MD, PhD**
Assistant Professor, Department of Neurosurgery

**David Badre, PhD**
Associate Professor, Department of Cognitive, Linguistic & Psychological Sciences

**Gilad Barnea, PhD**
Associate Professor, Department of Neuroscience

**Kevin Bath, PhD**
Assistant Professor, Department of Cognitive, Linguistic & Psychological Sciences

**Cynthia Battle, PhD**
Associate Professor

**Beth Bock, PhD**
Professor (Research)

**David Borton, PhD**
Assistant Professor, School of Engineering

**Willoughby Britton, PhD**
Assistant Professor, Department of Psychiatry and Human Behavior and Department of Behavioral and Social Sciences

**Larry Brown, MD**
Professor

**Michael Carey, PhD**
Professor

**Linda Carpenter, MD**
Professor

**Mary Carskadon, PhD**
Professor

**Barry Connors, PhD**
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: [http://www.brown.edu/research](http://www.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.
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<tr>
<td>Daniel Moreno De Luca, MD, MSc</td>
<td>Child Fellow</td>
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<td>Daniel Dickstein, MD</td>
<td>Associate Professor</td>
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<td>Justin Fallon, PhD</td>
<td>Professor, Department of Neuroscience</td>
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<td>Michael Frank, PhD</td>
<td>Associate Professor, Department of Cognitive, Linguistic &amp; Psychological Sciences</td>
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<td>Anne Hart, PhD</td>
<td>Professor, Department of Neuroscience</td>
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<tr>
<td>Leigh Hochberg, MD, PhD</td>
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<td>Elissa Jelalian, PhD</td>
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<td>Richard N. Jones, ScD</td>
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<td>Stephanie R. Jones, PhD</td>
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<td>Christopher Kahler, PhD</td>
<td>Professor and Chair, Department of Behavioral and Social Sciences, School of Public Health</td>
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<td>Julie A. Kauer, PhD</td>
<td>Professor, Departments of Molecular Pharmacology, Physiology and Biotechnology and Neuroscience</td>
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<td>Karla Kaun, PhD</td>
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<td>Daphne Koinis Mitchell, PhD</td>
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<td>Diane Lipscombe, PhD</td>
<td>Director, Brown Institute for Brain Science</td>
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<td>Thomas J Watson Sr. Professor of Science, Department of Neuroscience</td>
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<td>Wilson Truccolo, PhD</td>
<td>Pablo J. Salame '88 Goldman Sachs Assistant Professor of Computational Neuroscience Department of Neuroscience</td>
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<td>Mark Zimmerman, MD</td>
<td>Professor</td>
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<td>Caron Zlotnick, PhD</td>
<td>Professor</td>
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Steven Rasmussen, MD, MMS
Professor and Chair

Steven A. Rasmussen, MD, MMS is the Chair and Mary Zucker Professor in the Department of Psychiatry & 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 150 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, PhD
Assistant Professor, Department of Cognitive, Linguistic & Psychological Sciences

Dr. Dima Amso has a BS in Psychology from Tufts University, was trained at Cornell University, and received a PhD 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 F. Armey, PhD
Assistant 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, PhD, MD
Assistant Professor, Department of Neurosurgery

Dr. Asaad's laboratory studies the cognitive neuroscience of the prefrontal cortex and basal ganglia in animal models, and studies neuromodulation for movement disorders and psychiatric disease in humans.

The role of the prefrontal cortex and basal ganglia in adaptive behaviors is studied within a reinforcement learning framework. Recent work in nonhuman primates has been directed at understanding the neural mechanisms for solving the credit assignment problem, the representation of prediction errors, and the relative contributions of cortical and striatal circuits to learning more generally. In rodents, the focus is now on the D1 vs. D2 systems in an olfactory-motor associative learning paradigm.

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.
Dr. Asaad is a neurosurgeon specializing in functional neurosurgery for movement disorders and psychiatric disease, as well as in epilepsy surgery. He earned his MD from Yale and his PhD 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 undergraduates, graduate students, medical students and post-doctoral fellows.

David Badre, PhD
Associate Professor, Department of Cognitive, Linguistic & 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 & 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.

Kevin Bath, PhD
Assistant Professor, Department of Cognitive, Linguistic & Psychological Services

Kevin Bath, PhD 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 factors 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, PhD
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 & 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 & Infants' Hospital Center for Excellence in Women's Health, and the Radcliffe 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, PhD
Professor (Research)

Beth Bock, PhD is a Professor (Research) in the Department of Psychiatry & Human Behavior, Centers for Behavioral and Preventive Medicine at The Alpert Medical School and The Miriam Hospital. Her primary research interests are in examining innovative interventions for smoking cessation, exercise promotion, and the use of computer-based technologies in behavior change. She has been Principal Investigator on two studies examining the use of text message based interventions for smoking cessation (R21 DA027142) and alcohol harm reduction in community college students (R21 AA021014). She is currently Principal Investigator on a research study funded by the National Cancer Institute that examines the impact of changes in the electronic health record to promote smoking cessation intervention by emergency department physicians (R01 CA156699), and is also conducting a study testing the efficacy of exercise videogames compared to standard exercise for reduction of cardiovascular risk factors (R01 HL109116). 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 et al., in press). 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). 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). She currently sits on the faculty promotions committee for the DPHB and the committee for medical faculty affairs (CMFA) at the medical school.

David Borton, PhD
Assistant Professor, School of Engineering

David Borton received his B.S. in Biomedical Engineering from Washington University in St. Louis in 2006 and his PhD 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 (CINN). 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 disease and injury. Prof. Borton was recently awarded the Defense Advanced Research Projects Agency (DARPA) Young Faculty Award in 2015 and 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 recently 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, PhD**  
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 (www.brittonlab.com) 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 (UH2) 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 in both the United States and India.

**Larry K. Brown, MD**  
Professor

Larry K. Brown, MD is a board-certified child and adolescent psychiatrist. 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 nonheterosexual adolescents 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, PhD**  
Professor

Michael P. Carey, PhD 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. 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-funded projects. Over his career, Dr. Carey has been PI or Co-Investigator on more than 60 grants.

Dr. Carey has published nearly 400 papers and chapters and 2 books. His work has been cited more than 23,000 times (h-index = 83). Dr. Carey currently serves on several editorial boards; he has reviewed for 80 professional journals, multiple NIH institutes, and 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.

Linda Carpenter, MD
Professor

Linda L. Carpenter, MD 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 MD 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 been principal investigator on trials examining the efficacy and safety of novel neuromodulation treatments, including Vagus Nerve Stimulation (VNS), Deep Brain Stimulation (DBS), Transcranial Magnetic Stimulation (TMS) and transcranial Direct Current Stimulation (tDCS) for patients with pharmacoresistant major depression. 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, PhD
Professor

Mary A. Carskadon, PhD 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 & Human Behavior at the Alpert Medical School. She has a concurrent appointment as Professor of Psychology and director of the Centre for Sleep Research at the University of South Australia. 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 to promote later school timing for adolescents and many school districts to delay school start times for high school students.

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 protein expression and DNA modification in neurally-derived exosomes in a small case/control study of depressed mood in short sleepers; (2) measure gene expression, methylation, and genotype with observational phenotyping and experimental interventions in young adults and test genes
identified in a model organism, C. elegans; and (3) measure sleep and next-day cognitive effects of serial nights of alcohol use in adults.

Dr. Carskadon is a distinguished alumna of Gettysburg College and holds a doctorate in neuro- and bio-behavioral sciences from Stanford University, with a specialty in sleep research. She is a past president of the Sleep Research Society and is a co-founder of the Northeastern Sleep Society and organized the Women in Sleep Research interest group of the SRS. 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, PhD**
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, MD, MSc**
Department of Psychiatry and Human Behavior

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 MD 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, PhD**
Assistant Professor, Department of Neuroscience, and Psychiatry & 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, MD**  
Associate Professor

Daniel Dickstein, MD is an Associate Professor in the Department of Psychiatry & Human Behavior (DPHB; primary), the Department of Pediatrics (secondary), and the Department of Diagnostic Imaging (secondary). He is the associate director for research at Bradley Hospital.

Dr. Dickstein has two primary roles.

First, he is the Director of Bradley Hospital’s PediMIND Program—Pediatric Mood, Imaging, & NeuroDevelopment. 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, as well as an ongoing trial of cognitive remediation “brain training” in bipolar youth. It also includes work in youth engaged in non-suicidal self-injury, suicide attempters, ADHD, and anxiety disorders.

Second, he is the Director of HI-RES—the “Hospital Imaging Research & Education Service”. HI-RES has two inter-related missions: to bolster education about, and research using, neuroimaging by hospital-based trainees (M.D., Ph.D., and M.D./Ph.D.) and faculty.

In this role, Dr. Dickstein provides a variety of didactic and hands-on experiences—employing a “stages of change model”—to help trainees and faculty gain expertise in imaging—even if they have never previously had such training. Dr. Dickstein also serves as a mentor and co-investigator on grants for those who want to have imaging as part of their project, but whom may lack imaging expertise, either in general or for a specific imaging modality.

To learn more, email Dr. Dickstein (Daniel_Dickstein@Brown.edu). Or, visit websites about the PediMIND Program (www.pedimind.org) or HI-RES (www.HI-RES.npniri.org).

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**Justin Fallon, PhD**  
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.

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**Michael Frank, PhD**  
Professor, Department of Cognitive, Linguistic & Psychological Sciences

Michael J. Frank, PhD is Professor of Cognitive, Linguistic & Psychological Sciences and Psychiatry and Human Behavior and is affiliated with the Brown Institute for Brain Science at Brown University. He directs the Brown Initiative for Computation in Brain and Mind, [http://compneuro.clps.brown.edu](http://compneuro.clps.brown.edu) and his own Laboratory for Neural Computation. He received his PhD 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. Awards include 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 member of Faculty of 1000 (Theoretical Neuroscience section), and serves as an editor for eLife and Behavioral Neuroscience, and associate editor for the Journal of Neuroscience.
Benjamin Greenberg, MD, PhD
Professor

Dr. Greenberg's background includes a BA in Psychology from Amherst College, a PhD in Neurosciences from the University of California, San Diego, an MD 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 1990s.

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, for 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.

Anne Hart, PhD
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 why 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, MD, PhD, FAAN, FANA
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, PhD
Professor

Dr. 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 Neurorestoration 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, PhD
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 Veteran's with an affiliate appointment at the Center for Neurorestoration and Rehabilitation at the Providence Veterans Administration Medical Center.
Christopher Kahler, PhD  
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 240 peer-reviewed publications and has been a mentor to numerous trainees in the Brown Center for Alcohol & Addiction Studies.

Julie A. Kauer, PhD  
Professor, 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, PhD  
Assistant Professor, Department of Neuroscience

Dr. Karla Kaun received a BSc in Psychology from the University of British Columbia, and a PhD in Zoology from the University of Toronto. She completed her postdoctoral 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 holds a career development award from the BIBS Center for Nervous System Function, 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, MD
Professor

Dr. Gabor Keitner’s research interest is in providing and assessing comprehensive treatments for mood disorders including pharmacotherapy, psychotherapy, and family therapy. He conducts 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. The MOD treatment protocol is being adjusted to include a telehealth component.

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. An ongoing study is evaluating the reliability and validity of a brief 3 item version of the General Functioning Scale of the FAD 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 developed a brief mental health outcome measure (The Brief Multidimensional Assessment Scale –BMAS) to evaluate patient status and the perceived effectiveness of medical treatments. This four question scale evaluates patient perception of symptoms, functioning, quality of life and relationship satisfaction. It takes less than one minute to complete and can be used in any type of clinical setting for any kind of illness.

Martin B. Keller, MD
Professor Emeritus

Martin Keller, MD served as the Mary E. Zucker Professor and Chairman of the Department of Psychiatry & Human Behavior (DPHB) at Brown Medical School, and Executive Psychiatrist-in-Chief at the seven Brown affiliated hospitals, from 1989 until June 30th, 2009. He currently serves as Professor Emeritus in the DPHB and also serves as the Chief of Academic Strategic Planning and Director, Mood and Anxiety Disorders Research Program at Butler Hospital.

Dr. Keller has made fundamental contributions to developing standardized, replicable, and verifiable methods for assessing time to recovery, relapse, recurrence, and chronicity of episodes of mood and anxiety disorders, and the level of symptomatology and well-being over long periods of time. These measures have been integrated with the concurrent assessment of psychosocial functioning, morbidity, and mortality, and the psycho-pharmacologic and psychosocial treatments received by patients during periods of illness and when well. A major advance was the creation of the Longitudinal Interval Follow-Up Evaluation (LIFE), which prospectively assesses psychopathology over time and has been used by other scientists in more than 1000 research, programs in the United States and internationally.

Dr. Keller has received more than 25 research grants from the National Institutes of Health and numerous grants from research foundations and the pharmaceutical industry. He recently completed a 33 year long-term, prospective follow-up study involving more than 950 adults with mood disorders, over 5,000 relatives and 500 controls and a 25 year study of more than 700 adults with anxiety disorders seen in a psychiatric setting. Currently ongoing are separate prospective long term follow-up studies of more than 550 adults with anxiety disorders seen in a general medical setting; 450 children and adolescents with bipolar disorder; and 525 adults with an anxiety disorder consisting of matched cohorts of Latinos, African Americans and Whites. He also directed numerous multi-institutional randomized clinical trials that investigate the safety and efficacy of antidepressant agents and psychotherapy with adults and adolescents with bipolar and unipolar illness; several multi-site studies of the acute, continuation, and maintenance treatments of chronic major depression and double depression; and a separate long-term study on recurrent depression.

He served as Chairman of the Scientific Advisory Board of the National Depressive and Manic Depressive Association from 1995 to 1998, and is currently a member of its scientific advisory board; and has been a participant or Chair on numerous committees of the National Institute
of Mental Health (NIMH). From 1988 to 1994, Dr. Keller was Co-Chair of the American Psychiatric Association Task Force on Mood Disorders for DSM-IV. He is a fellow of the American College of Neuropsychopharmacology, and served as Chair of the Program Committee for the 2000 meeting. Currently, he is a member of the scientific counsels of the American Foundation of Suicide Prevention and NARSAD. He serves as Chair of the scientific advisory board of the JED foundation (whose mission is suicide prevention) and served as a member of its board of directors for many years.

Dr. Keller was co-editor of the International Journal of Clinical Psychopharmacology and was editor for clinical therapeutics of Neuropsychopharmacology. He served on the editorial board of the Journal of Clinical Psychiatry, the Journal of Affective Disorders, and the journal Depression and Anxiety; and is currently a reviewer for numerous journals. He has published over 550 original peer-reviewed journal articles, book chapters, reviews, and editorials.

Dr. Keller has received numerous awards for his work, including the 1997 Award for Research in Psychiatry from the American Psychiatric Association for his research on the longitudinal course and neuropsychopharmacology of affective disorders and anxiety disorders; the 1998 National Alliance for Research on Schizophrenia and Depression (NARSAD) Lieber Award for research on the causes, pathophysiology, treatment, and prevention of depression; and the 1999 Klerman Lifetime Research Award from the National Depression and Manic Depression Association. He also received the 2001 American College of Psychiatrists (ACP) Mood Disorders Lifetime Research Award for major research contributions to the understanding and treatment of mood disorders and the 2003 Edward A. Strecker Award from Pennsylvania Hospital and the University of Pennsylvania Health System for his outstanding contribution to the field of clinical psychiatry in the United States. In 2005 Dr. Keller received the Voice of Mental Health Award from The Jed Foundation for his contributions in the area of suicide prevention. In 2009 he received the Annual Distinguished Chair of Psychiatry Award from the Summit of Psychiatry Chairs in recognition of achievements and contributions of a U.S. Chair of Psychiatry. He was also named Distinguished Life Fellow in the American Psychiatric Association. He was honored by the Warren Alpert School of Medicine at Brown University, Department of Psychiatry, with the creation of the Martin B. Keller, MD, award to be given annually to the Most Outstanding Graduating Resident. In 2010 Dr. Keller received a Special Presidential Commendation from the American Psychiatric Association "in recognition of his leadership of the Brown University Department of Psychiatry and Behavioral Sciences for over 20 years and developing the Department from a relatively modest program into an academic juggernaut, considered to be one of the top five educational and research departments in the United States."

In 2013, Dr. Keller was awarded the "Dean's Excellence in Teaching Award" for Dedication to Excellence in Clinical Teaching, by Brown University Alpert Medical School. He was honored as one of The World's Most Influential Scientific Minds 2014 and 2015, for psychiatry/psychology by Reuters, based on having "highly cited papers" published from 2002 to 2012, and 2003 to 2013; which were in the top 1 percent by citations for Dr. Keller's field and year of publication. Reuters stated that “Everyone acknowledged is a person of influence in the sciences and social sciences,” and…”These researchers are, undoubtedly, among the most influential scientific minds of our time.”

He was also elected to Best Doctors worldwide database for multiple consecutive years.

Robert Kohn, MD, MPhil
Professor

Robert Kohn, MD is a Professor of Psychiatry & Human Behavior at Brown University. He completed medical school at the University of Illinois, psychiatry residency training at Brown University, and a fellowship in psychiatric epidemiology at Columbia University. He is Director of the Brown University World Health Organization Collaborating Center for Research on Psychiatric Epidemiology and Mental Health. His research focus is psychiatric epidemiology and geriatric psychiatry. He has an interest in cultural psychiatry and international mental health. He has done research on suicide, disasters, immigration, stigma, stress, and the role of social class on mental health. He has also studied the course of psychiatric disorders in the elderly. He has ongoing research with the World Health Organization / Pan American Health Organization in Chile, Honduras, Guatemala and Israel. He has conducted national mental health surveys both in adults and children.
Daphne Koinis Mitchell, PhD  
Associate Professor (Research), 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 (HL116254) 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., MD, MPH, FAAN, FANPA, DFAPA  
Associate 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 Associate 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 (CfNN) 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. This international workshops brought neurologists, psychiatrists, psychologists and allied health members together to set the direction for future NES research. He received an International League Against Epilepsy (ILAE) Visiting Professorship in Chile, partnering with epilepsy centers in Latin America, and he was a Srinivasan Neuroscience Conclave participant in India addressing Global Epilepsy in Low and Middle Income Countries. He serves on the Epilepsy Foundation (EF) Professional Advisory Board. He served as a steward for the NINDS Epilepsy Benchmarks, and he served on the ILAE's Neuropsychiatry Commission, and was inaugural chair of the ILAE NES Task Force. He was inaugural co-chair of the AES's NES Task Force. He was an Advisor for the DSM-5 Somatoform Disorders Work Group and is a member of the ABPN Certification Exam Committee. He was an affiliate member of the Managing Epilepsy Well Network. He served on the Neuroethics interdisciplinary panel for the Center for Bioethics and Human Dignity and 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 NINDS, AES, EF, Brown, VA, CINN and Siravo Foundation. He has written on and given invited lectures regionally, nationally and internationally on topics in neuroepidemiology, including epilepsy comorbidities, somatoform disorders, NES, TBI, PMD, 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*.

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**Barry Lester, PhD**  
Professor

Barry Lester, PhD is Professor of Psychiatry & 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, PhD
Director, Brown Institute for Brain Science
Thomas J Watson Sr. Professor of Science
Department of Neuroscience

Dr. Lipscombe studies the role of ion channels, particularly voltage-gated calcium ion channels, in neuronal function in normal and disease states. They investigate properties of ion channels including their modulation, regulation by cell-specific alternative splicing, role in nociceptors to mediate acute and chronic pain signaling, and potential importance in the pathophysiology of disorders. Lipscombe's lab has studied the various CACNA1 genes including their potential to generate cell-specific splice isoforms with different cellular functions, and as candidate schizophrenia risk genes. Through several collaborative projects, the Lipscombe lab 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 she has graduated a number of predoctoral students and trained several postdoctoral associates, most received individual external funding for their projects. Dr. Lipscombe is funded by the NIH, Keck Foundation, ALS Find a Cure, and the NSF.

Paul Malloy, PhD
Professor

Paul Malloy, PhD graduated from Dartmouth College in 1972, and served as a Navy officer for the next four years. He earned a PhD 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. He is Associate Director of the Division of Psychology within the DPHB.

Dr. Malloy's primary research interest is frontal lobe/ executive functions in neuropsychiatric disorders, with a current focus on dementia. He is investigating the role of small vessel cerebrovascular disease in causing executive deficits using behavioral and neuroimaging techniques. In addition, 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.

John McGeary, PhD
Associate Professor

John McGeary, PhD is an Associate Professor in the Department of Psychiatry & Human Behavior. Dr. McGeary'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 (81 completed grants) and is an author on 112 published papers.

Elizabeth McQuaid, PhD, ABPP
Professor (Research), Departments of Psychiatry and Human Behavior and Pediatrics

Elizabeth McQuaid, PhD 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.

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 for three years and as Chair of the committee in her final year. She 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 currently Director of the Brown Clinical Psychology Training Consortium.

Ivan Miller, PhD
Professor

Ivan Miller, PhD 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, PhD
Professor, Department of Behavioral and Social Sciences, School of Public Health

Peter M. Monti, PhD 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 trauma unit assessment and brief intervention project that is focused on both alcohol and sex risk behaviors and a P01 that is focused on alcohol and HIV.

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 APAs 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. Dr. Monti was the recipient of the Distinguished Researcher Award from the Research Society on Alcoholism (RSA) in 2006. He is a past president of the Research Society on Alcoholism.
**Christopher Moore, PhD**
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.

**Eric M. Morrow, MD, PhD**
Associate Professor, Department of Molecular Biology, Cell Biology, & Biochemistry
Associate Professor, Department of Psychiatry & Human Behavior

Eric M. Morrow is a physician-scientist with extensive experience in childhood neurodevelopmental disorders. He received his PhD in genetics and neurodevelopment at Harvard University. He received his MD 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, PhD**
Associate Professor (Research), Departments of Psychiatry and Human Behavior and Pediatrics Brown Medical School

Nicole Nugent, PhD 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 characterization of 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, MD  
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 investigators 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. He was awarded a VA-Career Development Award (CDA-2) in 2012 to use multimodal neuroimaging methods to understand neural network dysfunction associated with PTSD. He is also been awarded several pilot awards from the VA Center for Neurorehabilitation and Neurotechnology and to integrate research using neuroimaging and noninvasive brain stimulation, VA grants to develop novel forms of brain stimulation for PTSD, and funding from NIDA to pilot the use of transcranial magnetic stimulation for smoking cessation. 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. 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 directs the Evidence-Based Medicine and Neuroscience Curricula for the PGY1s and 2s, and has served as co-director of the resident research seminar since its inception. In 2015 he joined the R35 leadership as a co-investigator.

Lawrence Price, MD  
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, neuropharmacology, 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 450 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: http://www.research.brown.edu/research/profile.php?id=1100924967&r=1

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**Carl Saab, PhD**
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, pharmaceutical and device companies, 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 in the brain 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. Hence, competitive research projects will increasingly require synergistic collaborations that shape fundamental questions regarding network dynamics giving rise to behavior in health and disease.

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**Stephen Salloway, MD, MS**
Professor, Department of Neurology

Dr. Salloway is Chief of Neurology and Director of the Memory and Aging Program at Butler Hospital and Professor of Neurology and Psychiatry at the Alpert Medical School of Brown University. He received his MD 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, PhD
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, PhD
Professor

Ronald Seifer, PhD received his PhD 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, PhD
Assistant 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, PhD
Professor

Tracie Shea, PhD 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, PhD
Professor, Department of Neuroscience

Dr. Sheinberg received his AB in Computer Science and Psychology from Yale College and his PhD 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, PhD**
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). These questions are addressed using a combination of behavioral and neuroimaging methods, combined with computational modeling.

**Anthony Spirito, PhD**
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 computer based interventions for adolescents with substance misuse. 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, MD**
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, PhD**
Professor

Dr. Laura Stroud has an AB in Human Biology from Stanford University, and received a PhD 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 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 novel tobacco products (hookah, electronic cigarettes) on pregnant mothers and infants. Within the adolescent period, Dr. Stroud's work has focused on 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, MD, PhD**

Professor

Robert Swift, MD, PhD received his BA, PhD, and MD (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 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-McNeil). 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 Theyel, MD, PhD**

Assistant Professor, Department of Psychiatry and Human Behavior

Dr. Theyel is a clinician neuroscientist with a research interest in autism, schizophrenia, and circuit abnormalities underlying these and other mental health disorders. He currently conducts research examining the neurocircuitry underlying autism. He has special interest in the role that abnormalities in the pathway that connects thalamus to cortex has in autism. 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.

He additionally co-runs a course for psychiatry residents entitled "Evidence Based Medicine." His work is supported by the laboratory of Barry Connors, PhD, the Department of Psychiatry and Human Behavior, the Norman Prince Neurosciences Institute, the Brown Institute for Brain Science, and the Simons Foundation.
Dr. Geoffrey Tremont, PhD
Associate Professor

Geoffrey Tremont, PhD 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 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.

Dr. Wilson Truccolo, PhD
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.

Dr. Audrey Tyrka, MD, PhD
Professor

Dr. Tyrka received her MD and PhD 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 & 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, PhD
Associate Professor (Research)

Dr. Uebelacker’s interests center around developing and testing innovative psychosocial methods for treating depression, 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. Ongoing NIH-funded projects include: Initiating and Maintaining Physical Activity in Depressed Individuals, Narrative intervention to disseminate ACT for depression in primary care, and Improving Functioning in HIV Patients with Chronic Pain and Comorbid Depressive Symptoms.

Takeo Watanabe, PhD
The Fred M. Seed Professor, Department of Cognitive, Linguistic & 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.

Lauren Weinstock, PhD
Associate Professor

Dr. Lauren Weinstock has an AB in psychology and French from Duke University and an MA and PhD 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. 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 transition periods (i.e., from inpatient to outpatient treatment, across the perinatal period, and from criminal justice to community settings). She has authored over 50 scientific publications in these areas, is on the editorial board for the journal Behavior Therapy, and has served on numerous national workgroups focused on best practices in bipolar disorder and suicide prevention research and treatment.

Laura Whiteley, MD
Assistant Professor (Research)

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 and directs the Young Adult Behavioral Health Program at Rhode Island Hospital which specializes in providing psychiatric services to students attending local colleges and universities. Laura received a Rhode Island Foundation Grant for her work with colleges and young adults in 2014.
Laura’s 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 two NIMH R34. 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, PhD**  
Professor

Rena R. Wing, PhD 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, PhD**  
Associate Professor

Shirley Yen, PhD is a graduate of the University of Chicago (BA) and received her doctorate in clinical psychology from Duke University (PhD). 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 15 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, as well as a positive affect intervention for young adult outpatients which utilizes test messaging to enhance skills practice. Most recently, she was awarded a grant to examine mechanisms of suicide risk in sexual minority adolescents.

**Mark Zimmerman, MD**  
Professor

Mark Zimmerman, MD 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 15 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 have recently 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 closely associated with self-perceived remission status than a purely symptom measure of depression.

To date more than 200 articles have been published based on the MIDAS project dataset. In total, Dr. Zimmerman is the author of more than 350 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 recently revised Interview Guide to Diagnose DSM-5 Psychiatric Disorders and the Mental Status Examination.

Caron Zlotnick, PhD
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, and Veteran women with histories of sexual trauma. She has also co-authored published articles on postpartum depression, intimate partner violence, and incarcerated women.

Websites for Additional Information

DPHB Websites
Department of Psychiatry & Human Behavior Home Page
http://med.brown.edu/DPHB/

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

Brown University Directory
http://directory.brown.edu/search

DPHB Faculty Information
https://www.brown.edu/academics/medical/about/departments/psychiatry-and-human-behavior/faculty

DPHB Training Programs
http://med.brown.edu/DPHB/training/

Centers and Institutes
Advance Clinical Translational Research
https://www.brown.edu/initiatives/translational-research/home

Brown Center for Genomics and Proteomics
http://www.brown.edu/Research/CGP/about/

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

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

Brown Genomics Core Facility
https://www.brown.edu/research/facilities/genomics/

Brown Institute for Brain Science
https://www.brown.edu/academics/brain-science/

Brown MRI Research Facility
https://www.brown.edu/research/facilities/mri/

Brown School of Engineering
https://www.brown.edu/academics/engineering/
Brown School of Public Health
https://www.brown.edu/academics/public-health/

Brown University AIDS Program
https://www.brown.edu/academics/public-health/centers/aids-program/

Brown University Center for Alcohol and Addiction Studies
https://www.brown.edu/academics/public-health/research/alcohol-addiction-studies/

Butler Hospital Neuromodulation Research Facility Core
https://www.brown.edu/academics/medical/about/departments/psychiatry-and-human-behavior/training/welcome-director-residency-training-research/resident-research-opportunities/mentorship-collaborat-o

Center for Health Equity Research
https://www.brown.edu/academics/public-health/research/health-equity/

Center for Neurorestoration and Neurotechnology
https://www.providence.va.gov/research/CfNN/index.asp

Center for Primary Care and Prevention
http://med.brown.edu/CPCP/

Centers for Behavioral and Preventive Medicine
https://www.lifespan.org/centers-services/centers-behavioral-and-preventive-medicine

CoresRI
http://www.coresri.org/centers

Data Science Initiative
https://www.brown.edu/initiatives/data-science/about/core-departments

Department of Cognitive, Linguistic & Psychological Sciences
https://www.brown.edu/Departments/CLPS/

Department of Molecular Biology, Cell Biology & Biochemistry
https://www.brown.edu/academics/biology/molecular-cell-biochemistry/

Department of Neuroscience
https://www.brown.edu/academics/neuroscience/

Hospital-Imaging Research and Education Service

International Health Institute
https://www.brown.edu/academics/public-health/research/international-health/

Laboratory for Molecular Medicine
http://personalizedmedicine.partners.org/Laboratory-For-Molecular-Medicine/Default.aspx

Norman Prince Neuroscience Institute
https://www.lifespan.org/centers-services/norman-prince-neurosciences-institute-npni

Quantitative Science Program
https://sites.google.com/a/brown.edu/quantsci/

Affiliated Hospitals

Bradley Hospital
http://www.bradleyhospital.org/about-bradley-hospital.html

Butler Hospital
http://www.butler.org/

Memorial Hospital of Rhode Island
http://www.mhri.org/news.php

Providence Veterans Affairs Medical Center
http://www.providence.va.gov/

Rhode Island Hospital
http://www.rhodeislandhospital.org/

The Miriam Hospital
www.miriamhospital.org/

Women and Infant's Hospital
www.womenandinfants.org/