

CURRICULUM VITAE

1. Erika Jeannine Edwards

Associate Professor of Ecology and Evolutionary Biology
Dept of Ecology and Evolutionary Biology
Brown University
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Providence, RI 02912
phone: 401.863.2081 fax: 401.863.2166 email: erika_edwards@brown.edu

2. Home address

Providence, RI 02906

3. Education

2000-2005 PhD in Ecology and Evolutionary Biology, Yale University, Dissertation
title: *Pereskia (Cactaceae) and the origin of the cactus life form.*
1993-1998 B.S. in Earth Systems, Stanford University

4. Professional appointments

2014 Distinguished Visiting Professor, Kyushu University, Japan
2013-present Associate Professor of Ecology and Evolutionary Biology, Brown
University
2011-2013 Richard and Edna Salomon Assistant Professor of Ecology and
Evolutionary Biology, Brown University
2008-present Director, Brown University Herbarium, Brown University
2007-2011 Assistant Professor of Biology, Brown University
2005-2007 Post-doctoral research associate, Geography Department, University of
California at Santa Barbara

5. Completed publications

a. Books/monographs (authored and/or edited volumes)

Feild T and **EJ Edwards**, editors. 2012. *Major transitions in angiosperm ecology and functional biology. Special issue of **International Journal of Plant Sciences** 173: 559-733.*

b. Refereed book chapters

Davis C, **EJ Edwards**, and MJ Donoghue. 2010. A clade's eye view of global climate change. In Bell, M. A., D. J. Futuyma, W. F. Eanes, and J. S. Levinton (eds.) *Evolution since Darwin: the First 150 Years*, Sinauer Associates, Sunderland, MA.

c. Refereed journal articles

Donoghue MJ and **EJ Edwards**. 2014. Biome shifting and niche evolution in plants. **Annual Review of Ecology, Evolution, and Systematics** in press.

Howison M, F Zapata, **EJ Edwards**, CW Dunn. 2014. Bayesian genome assembly and assessment by Markov chain Monte Carlo sampling. **PLoS One** 9(6): e99497.

Clement, W, M Arakaki, P Sweeney, **EJ Edwards**, MJ Donoghue. 2014. A chloroplast tree for *Viburnum* (Adoxaceae) and its implication for phylogenetic classification and character evolution. **American Journal of Botany** 101: 1029-1049.

Spriggs EA*, PA Christin, **EJ Edwards**. 2014. C4 photosynthesis promoted species diversification during the Miocene grassland expansion. **PLoS One** 9(5): e97722.

Hancock L and **EJ Edwards**. 2014. Phylogeny and the inference of evolutionary trajectories. Special issue of **Journal of Experimental Botany** 65: 3941-3948.

Christin PA, M Arakaki, CP Osborne, A Brautigam, RF Sage, JM Hibberd, S Kelley, S Covshoff, GK Wong, L Hancock, **EJ Edwards**. 2014. Shared origins of a key enzyme during the evolution of C4 and CAM metabolism. Special issue of **Journal of Experimental Botany** 65: 3609-3621.

Still CJ, S Pau, **EJ Edwards**. 2014. Land surface skin temperature captures thermal environments of C3 and C4 grasses. **Global Ecology and Biogeography** 23: 286-296.

Edwards EJ, D Chatelet, L Sack, MJ Donoghue. 2014. Leaf lifespan and the global leaf economic spectrum in the context of whole plant architecture. Special issue of **Journal of Ecology** 102: 328-336.

Christin PA, E Spriggs*, CP Osborne, CAE Stromberg, N Salamin, **EJ Edwards**. 2014. Molecular dating, evolutionary rates, and the age of the grasses. **Systematic Biology** 63: 153-165.

Christin, PA, SF Boxall, R Gregory, **EJ Edwards**, J Hartwell, CP Osborne. 2013. Biased recruitment of genes for C4 photosynthesis. **Genome Biology and Evolution** 5: 2174-2187.

Chatelet DS, MJ Donoghue, W Clement, L Sack, **EJ Edwards**. 2013. The evolution of photosynthetic anatomy in *Viburnum* (Adoxaceae). **International Journal of Plant Sciences** 174: 1277-1291.

Edwards EJ and MJ Donoghue. 2013. Is it easy to move *and* easy to evolve? Evolutionary accessibility and adaptation. Special issue of **Journal of Experimental Botany** 64: 4047-4052.

Ogburn RM and **EJ Edwards**. 2013. Repeated origin of three-dimensional leaf venation releases constraints on the evolution of succulence. **Current Biology** 23: 722-726.

Christin PA, CP Osborne, DS Chatelet, TJ Columbus, G Besnard, TR Hodkinson, LM Garrison, M Voronstova, **EJ Edwards**. 2013. Anatomical enablers and the evolution of C4 photosynthesis in grasses. **Proceedings of the National Academy of Sciences USA** 110: 1381-1386.

Pau, S. **EJ Edwards**, CJ Still. 2013. Improving our understanding of environmental controls on the distribution of C3 and C4 grasses. *Global Change Biology* 19: 184-196.

Christin PA, MJ Wallace, H Clayton, **EJ Edwards**, RT Furbank, PW Hattersley, RF Sage, TD Macfarlane, M Ludwig. 2012. Multiple photosynthetic transitions, polyploidy, and lateral gene transfer in the grass subtribe Neurachninae. *Journal of Experimental Botany* 63: 6297-6308.

Schmerler S*, W Clement, J Beaulieu, D Chatelet, L Sack, MJ Donoghue, **EJ Edwards**. 2012. Evolution of leaf form correlates with temperate/tropical transitions in *Viburnum*. *Proceedings of the Royal Society of London B: Biological Sciences* 279: 3905-3913.

Liu, H. **EJ Edwards**, R Freckleton, CP Osborne. 2012. Phylogenetic niche conservatism in C4 grasses. *Oecologia* 170: 835-845.

Ogburn RM and **EJ Edwards**. 2012. Quantifying succulence: a rapid, physiologically meaningful measure of plant water storage. *Plant, Cell and Environment* 35: 1533-1542 (cover article).

Edwards EJ and RM Ogburn. 2012. Angiosperm responses to a low CO₂ world: CAM and C4 photosynthesis as parallel evolutionary trajectories. Special issue of *International Journal of Plant Sciences* 173: 724-733.

Christin, PA, **EJ Edwards**, S Boxall, G Besnard, EA Kellogg, J Hartwell, CP Osborne. 2012. Adaptive evolution of C4 photosynthesis through recurrent lateral gene transfer. *Current Biology* 22: 1-5.

Christin PA, G Besnard, **EJ Edwards**, N Salamin. 2012. Effect of genetic convergence on phylogenetic inference. *Molecular Phylogenetics and Evolution* 62:921-927.

Grass Phylogeny Working Group II* (**EJ Edwards** corresponding author). 2012. New grass phylogeny resolves deep evolutionary relationships and discovers C4 origins. *New Phytologist* 193: 304-312.

Taylor,S, P Franks, S Hulme, E Spriggs*, PA Christin, **EJ Edwards**, I Woodward, CP Osborne. 2012. Photosynthetic pathway and ecological adaptation explain stomatal trait diversity amongst grasses. *New Phytologist* 193: 387-396.

Sage RF, PA Christin, **EJ Edwards**. 2011. C4 plant lineages of planet Earth. Special issue of *Journal of Experimental Botany* 62: 3155-3169.

Christin, PA, CP Osborne, RF Sage, M Arakaki, **EJ Edwards**. 2011. C4 eudicots are not younger than C4 monocots. Special issue of *Journal of Experimental Botany* 62: 3171-3181.

Arakaki M, PA Christin, A Lendel, R Nyffeler, U Egli, RM Ogburn, E Spriggs*, M Moore, **EJ Edwards**. 2011. Recent and contemporaneous radiations of the world's succulent plant lineages. *Proceedings of the National Academy of Sciences USA* 108: 8379-8384.

Christin PA, T Sage, **EJ Edwards**, RM Ogburn, R Khoshravish, RF Sage. 2011. Complex evolutionary transitions and the significance of C3-C4 intermediate forms of photosynthesis in Molluginaceae. *Evolution* 65: 643-660.

Ogburn RM and **EJ Edwards**. 2010. The ecological water use strategies of succulent plants. Invited review, ***Advances in Botanical Research*** 55: 179-255.

Edwards EJ[‡], CP Osborne[‡], CAE Stromberg[‡], SA Smith and the C4 Grasses Consortium. 2010. The origins of C4 grasslands: integrating evolutionary and ecosystem science. ***Science*** 328: 587-591. [‡]*indicates equal authorship*

Edwards EJ and SA Smith. 2010. Phylogenetic analyses reveal the shady history of C4 grasses. ***Proceedings of the National Academy of Sciences USA*** 107: 2532-2537.

Haberle RC, A Dang, T Lee, C Penafior, H Cortes-Burns, A Oestreich, L Raubeson, N Cellinese, **EJ Edwards**, ST Kim, WMM Eddie, and RK Jansen. 2009. Taxonomic and biogeographic implications of a phylogenetic analysis of the Campanulaceae based on three chloroplast genes. ***Taxon*** 58: 715-734.

Cellinese N, SA Smith, **EJ Edwards**, ST Kim, RC Haberle, and MJ Donoghue. 2009. Historical biogeography of the endemic Campanulaceae of Crete. ***Journal of Biogeography*** 36: 1253-1269.

Ogburn RM and **EJ Edwards**. 2009. Anatomical variation in the closest relatives of cacti: trait lability and evolutionary innovation. ***American Journal of Botany*** 96: 1-20. (cover article)

Butterworth CA and **EJ Edwards**. 2008. Investigating *Pereskia* and the earliest divergences in Cactaceae. Invited paper, ***Haseltonia*** 14: 46-53.

Nyffeler R, U Eggli, RM Ogburn, and **EJ Edwards**. 2008. Variations on a theme: repeated evolution of succulent life forms in the Portulacineae. Invited paper, ***Haseltonia*** 14: 26-36.

Edwards EJ and CJ Still. 2008. Climate, phylogeny, and the ecological distribution of C4 grasses. ***Ecology Letters*** 11: 266-276.

Edwards EJ, CJ Still and MJ Donoghue. 2007. The relevance of phylogeny to studies of global change. ***Trends in Ecology and Evolution*** 22: 243-249.

Edwards EJ. 2006. The correlated evolution of stem and leaf hydraulic traits in *Pereskia* (Cactaceae). ***New Phytologist*** 172: 479-489.

Edwards EJ and MJ Donoghue. 2006. *Pereskia* and the origin of the cactus life form. ***American Naturalist*** 167: 777-793.

Edwards EJ and M Diaz. 2006. Ecological physiology of *Pereskia guamacho*, a cactus with leaves. ***Plant Cell and Environment*** 29: 247-256 (cover article).

Edwards EJ, R Nyffeler, and MJ Donoghue. 2005. Basal cactus phylogeny: implications of *Pereskia* paraphyly for the transition to the cactus life form. ***American Journal of Botany*** 92: 1177-1188.

Riedel SM, HE Epstein, DA Walker, DL Richardson, MP Calef, **EJ Edwards**, and A Moody. 2005. Spatial and temporal heterogeneity of vegetation properties among four tundra plant communities at Ivotuk, Alaska, USA. *Arctic, Antarctic, and Alpine Research* 37: 25-33.

Brodribb TJ, NM Holbrook, **EJ Edwards**, and MV Gutierrez. 2003. Relations between stomatal closure, leaf turgor and xylem vulnerability in eight tropical dry forest trees. *Plant Cell and Environment* 26: 443-450.

Walker DA, HE Epstein, JG Jia, A Balsar, CD Copass, **EJ Edwards**, WA Gould, J Hollingsworth, J Knudson, HA Maier, A Moody, and MK Reynolds. 2003. Phytomass, LAI and NDVI in northern Alaska: relationships to summer warmth, soil pH, plant functional types, and extrapolation to the circumpolar Arctic. *Journal of Geophysical Research* 108 (D2): 8169 doi:10.1029/2001JD000986.

Bell CD, **EJ Edwards**, ST Kim, and MJ Donoghue. 2001. Dipsacales phylogeny based on chloroplast DNA sequences. *Harvard Papers in Botany* 6: 481-499.

*Brown University undergraduate

d. Non-refereed journal articles

Edwards EJ. 2014. The inevitability of C4 photosynthesis. *eLife* 3: e03702.

Feild T and **EJ Edwards**. 2012. Celebrating giant steps toward a synthetic history of angiosperm evolution. Special issue of *International Journal of Plant Sciences* 173: 559-560.

e. Book reviews

Edwards, EJ. 2009. The Great Cacti: Ethnobotany and Biogeography, by David Yetman. *Quarterly Review of Biology* 84: 108-109.

f. Selected contributed abstracts

2012 "Phylogenetic patterns of highly unusual leaf palisade structure in *Viburnum* (Adoxaceae)". Evolution meetings, Ottawa ON.

2011 "Of marginal interest: changes in leaf shape during evolutionary shifts between temperate and tropical habitats in *Viburnum* (Adoxaceae). Evolution meetings, Norman OK

2009 "C4 the straw man? Evolution of cold tolerance better explains global distribution of C3/C4 grasslands" Botanical Society of American conference, Snowbird UT

2005 "How the cactus lost its leaves: studies of character evolution can reveal the origins of biological diversity" Diversitas Open Science Conference, Oaxaca, Mexico

2004 "Basal phylogenetic relationships in Cactaceae, and implications for early cactus evolution" Botanical Society of America, Snowbird UT

2004 "Water relations of *Pereskia guamacho*, a cactus with leaves" Botanical Society of America conference, Snowbird UT

2003 "What can *Pereskia* really tell us about early cactus evolution?" Botanical Society of America conference, Mobile AL

2000 "Climate, Vegetation, Soil, and Spectral Reflectance Patterns Across Zonal Vegetation Boundaries in Arctic Alaska" AGU Meetings, San Francisco, CA

g. Invited lectures

Plenary Lectures

2013 'Repeated origins of (not so?) complex traits: understanding evolutionary accessibility to C₄ and CAM photosynthetic syndromes', 16th International Photosynthesis Congress, St. Louis MO, USA

Symposiums

2014 'Comparative phylogenetic methods and approaches in plant science', 2014 Botany meetings, Boise, ID

2014 'Systems biology and ecology of CAM plants', 34th New Phytologist Symposium, Lake Tahoe, CA

2014 'Seeing the forest for the trees: the contributions of synthesis to evolutionary science', 2014 Evolution meetings, Raleigh, NC

2014 'Plant Radiations', Institute of Systematic Botany, Zurich, Switzerland

2013 'The evolution of plant effects on carbon and nutrient cycling', INTECOL 2013, London, UK

2013 'International symposium on C₄ and CAM plant biology', Urbana-Champaign, Illinois

2012 'International symposium on core Caryophyllales: perspectives in phylogeny and systematics', Moscow State University, Russia

2012 'Evolution of physiological traits', Society for Experimental Biology, Salzburg, Austria

2011 'Crassulacean Acid Metabolism: evolutionary origins, ecological plasticity, and bioenergy potential', International Botanical Congress, Melbourne, Australia

2010 2010 Symposium on C₄ plant biology, Shanghai Institutes for Biological Sciences, Shanghai, China

2009 'Evolution: the past, present and future of biodiversity', 2nd Diversitas Open Science Conference, Capetown, South Africa

2009 'Genetics and genomics of environmental change', American Genetics Association Annual Symposium, Providence, RI

2009 'Phylogeny and Ecology' Early Career Scientist Symposium, University of Michigan, Ann Arbor, MI

2008 'Systematics and evolution of Cactaceae', IOS-SLCCS-Brazilian Botanical Congress, Natal, Brazil

2008 'Phylogeny informs biology: seeing the forest from the trees', Harvard Plant Biology Initiative Annual Symposium, Cambridge, MA

2007 'Impact of plant phylogenies on tropical ecology and evolutionary studies', Association of Tropical Biology and Conservation conference, Morelia, Mexico

2007 'Integration of spatial and ecological data in evolutionary studies', Botanical Society of America conference, Chicago, IL

2005 'Biology of dryland plants', Botanical Society of America conference, Austin, TX

Departmental Seminars

2014 Dept Plant Biology, University of Georgia, Athens GA

2014 Dept Botany, Claremont Graduate University, Rancho Santa Ana, CA

2013 Dept Biology, Kyushu University, Fukuoka, Japan

2013 Dept Ecology and Evolution, National Taiwan University, Taipei, Taiwan
 2013 Dept Ecology and Evolutionary Biology, University of Michigan, Ann Arbor MI
 2013 Center for Study of Physics and Biology, The Rockefeller University, New York, NY
 2013 Dept Plant Biology, University of Vermont, Burlington VT
 2013 Dept Biology, University of Florida, Gainesville FL
 2012 Dept Botany, Field Museum, Chicago IL
 2012 Dept Biology, University of Miami, Miami FL
 2012 Harvard University Herbaria Seminar Series, Cambridge, MA
 2012 Dept Plant Biology, Cornell University, Ithaca, NY
 2012 Dept Ecology and Evolutionary Biology, UCLA, Los Angeles, CA
 2012 Dept Ecology and Evolutionary Biology, Yale University, New Haven, CT
 2011 Dept Biology, University of Rhode Island, Kingston, RI
 2011 Dept Ecology and Evolutionary Biology, University of Tennessee, Knoxville TN
 2010 Dept Biology, Duke University, Durham, NC (elected speaker by graduate students)
 2010 Dept Biology, Duke University, Durham, NC (elected speaker by graduate students)
 2009 Marine Biological Laboratories, Woods Hole, MA
 2009 Dept Ecology and Evolutionary Biology, Western Washington University, Pullman, WA
 2009 Dept Ecology and Evolutionary Biology, SUNY at Stony Brook, NY
 2009 Dept Biology, St. Marys University, Halifax, Nova Scotia
 2008 Dept Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT
 2008 Dept Botany, University of Capetown, South Africa
 2006 Dept Ecology and Evolutionary Biology, Brown University, Providence RI
 2006 Dept Ecology and Evolutionary Biology, Brown University, Providence RI
 2006 Dept Botany, University of Hawaii, Honolulu HI
 2005 Noel Kempff Mercado Museum of Natural History, Santa Cruz, Bolivia, (in Spanish)
 2005 National Herbarium of Bolivia, La Paz, Bolivia (in Spanish)
 2004 Jardin Botanico Nacional, Santo Domingo, Dominican Republic (in Spanish)
 2002 Universidad Exerimental Francisco de Miranda, Coro, Venezuela (in Spanish)

i. Work in review:

Gao L, **EJ Edwards**, Y Zhang, Y Huang. Major evolutionary trends in hydrogen isotopic fractionation of vascular plant leaf waxes. In revision, ***PLOS One***.

Spriggs EL, WL Clement, PW Sweeney, S Madrinan, **EJ Edwards**, MJ Donoghue. Viburnum diversification: temperate radiations and dying embers of a tropical past. In review, ***New Phytologist***.

Ogburn RM and EJ Edwards. Life history lability underlies rapid climatic niche evolution in the angiosperm clade Montiaceae. In review, ***American Naturalist***.

*Brown University undergraduate

6. Research Grants

a. Current grants

- 2013-2016 Collaborative Research: Testing a New Hypothesis for Global Patterns in Leaf Form using *Viburnum* (Adoxaceae). NSF: IOS: Organism-Environment Interactions. IOS-1257262. Lead PI (with one co-PI). \$443,728 (of \$696,089 total).
- 2013-2018 CAREER: Defining the evolutionary trajectory of CAM photosynthesis in the Portulacineae (Caryophyllales). NSF: DEB: Phylogenetic Systematics. DEB-1252901. \$800,000.
- 2012-2016 Collaborative Research: Digitization TCN: Mobilizing New England vascular plant specimen data to track environmental changes. NSF: DBI: Advancing Digitization of Biological Collections. Co-PI (of 9 total). \$152,391 (of ~\$2.4 M total)
- 2010- 2015 IGERT: Reverse Ecology: Computational Integration of Genomes, Organisms, and Environments. NSF DGE-0966060. Co-PI (of 5 total) \$2,900,000.
- 2010-2014 Phylogeny and the evolution of succulence in the Portulacineae (Caryophyllales). NSF DEB: Phylogenetic Systematics. DEB-1026611. \$534,949.

b. Pending grants

c. Completed grants

- 2009-2010 The dawn of a new era: deciphering the past climatic and ecological changes using integrated DNA and lipid biomarker fingerprints. Brown University SEED Fund. Co-PI; Lead PI Yongsong Huang, \$100,000.
- 2012 Uncovering biases in gene recruitment during the evolution of C₄ and CAM photosynthesis in flowering plants. Brown University Salomon Faculty Research Award, \$15,073.
- 2009-2012 Collaborative Research: The Evolution of Leaf Form in *Viburnum* (Adoxaceae). NSF IOS: Organism-Environment Interactions. IOS-0843231. Lead PI (with two co-PI). \$606,347 (of \$937,721 total)
- 2011-2013 Marie Curie Outgoing International Fellowship: Evolvability and drivers of photosynthetic transitions in flowering plants. Co-PI; Acting as outgoing host for lead PI Dr. Pascal-Antoine Christin. €261,334.20.
- 2010-2014 Phylogeny and the evolution of succulence in the Portulacineae (Caryophyllales). NSF DEB: Phylogenetic Systematics. DEB-1026611. \$534,949.

7. Service

To the University

- 2013-current Steering Committee, Brown Institute for Study of Environment and Society
2013 Graduate Admissions Committee, EEB Dept.

2013 panel member: 'How To Negotiate a Job Offer', Brown Univ.
 2013 panel member: 'The Two-Body Search', Brown Univ.
 2012 Plant Evolution Faculty Search Committee, EEB Dept.
 2012-2013 Drafting committee, Brown Institute for Study of Environment and Society
 2012-2014 First Year Advisor (13 students)
 2012 strategic planning meetings, development of Plant Biology Initiative
 2010 panel member, Sarah Doyle Women's Center
 2010 Graduate Admissions Committee, EEB Dept.
 2009-current Graduate Curriculum Committee, EEB Dept.
 2009-2011 Writing Advisory Board, Brown Univ.
 2009 First-Readings Seminar Leader

To the Profession

Elected Offices

Council member, Society of Systematic Biologists, 2011-2013

Invited Workshop/Working Group Participant

2011-2012 Origins of C4 grasslands: a new synthesis of phylogeny, ecology, and paleobiology, NESCent Working Group
 2011-2012 Tempo and mode of plant functional evolution, NESCent Working Group
 2010 Phylogenetic Ecology, NCEAS Workshop
 2010 NSF- Dimensions of Biodiversity Charette, NESCent Workshop
 2008 Ecophylogenetics, NCEAS Working Group
 2002 Integration of Long Distance Transport Processes in Plants, Harvard Forest

Workshops/working groups/conferences organized

2013 C4-CAM 2013: A conference dedicated to the origin, function, and exploitation of C4 and CAM plants (with 7 other co-organizers). U. Illinois at Urbana-Champaign, Aug 6-9 2013.
 2010-2011 NESCent Working Group: Grass Phylogeny Working Group II: Inferring the complex history of C4 photosynthesis in grasses. Lead PI (with two co-PI).
 2009 NESCent Catalysis Meeting: Toward a New Synthesis of the Evolutionary History and Ecology of C4 Grasses. 3 day meeting bringing together PI's from U.S., Canada, South Africa, U.K., and Switzerland. Lead PI (with two co-PI).

Ad-hoc Reviewer

National Science Foundation (IOS, DEB); *American Journal of Botany*; *Biology Letters*; *Bradleya*; *Cell*; *Ecology Letters*; *eLife*; *Evolution*; *Functional Ecology*; *Geology*; *Haseltonia*; *International Journal of Plant Sciences*; *Journal of Biogeography*; *Journal of Experimental Botany*; *Molecular Ecology Resources*; *Molecular Phylogenetics and Evolution*; *Nature-Communications*; *Nature-Geosciences*; *New Phytologist*; *Plant Cell and Environment*; *Plant Systematics and Evolution*; *Proceedings of the National Academy of Sciences*; *Proceedings of the Royal Society of London B*; *Science*; *Tree Physiology*

Panel Service

National Science Foundation, October 2010, April 2012, May 2014

Other

2013-2016 Associate Editor, *Systematic Biology*
2012-2016 Associate Editor, *International Journal of Plant Sciences*
2011-2012 Scientific Advisory Committee, International Organization for Succulent Plant Study
2010-2011 Scientific Advisory Board, Grass Portal Development Team (www.grassportal.org)

8. Academic honors, fellowships, honorary societies, awards

2011 Richard and Edna Salomon Assistant Professor of Ecology and Evolutionary Biology
2008 NSF ADVANCE Career Development Award, Brown University, \$17,506.
2006 John Spangler Nicholas Prize, Yale University, \$500.
2005 Ph.D. Awarded with Distinction, Yale University
2005 Maynard Moseley Award, Botanical Society of America
2005 Vernon I. Cheadle Student Travel Grant, Botanical Society of America, \$500.
2004 MORPH Graduate Student Travel Grant, \$300.
2003 EEB Department Chair Award, Yale University, \$1500.
2002 YIBS Center for Field Ecology Graduate Research Award, Yale University, \$2925.
2002 Deland Award for Student Research, Harvard University, \$4250.
2000-2005 National Science Foundation Graduate Research Fellowship

9. Teaching

2007-2008

Biology 1950: Independent Study (supervising Cassidy Metcalf, class of 2008)

2008-2009

Biology 0430: Diversity and Adaptation of Land Plants (sole instructor, enrollment 24)
Biology 1500: Plant Ecology (sole instructor, enrollment 14)

2009-2010

Biology 0430: The Evolution of Plant Diversity (sole instructor, enrollment 26)
GISP 0017: Introductory Mycology: Applications and Ecology of Fungi (faculty sponsor, enrollment 8).
Biology 1950 (fall 09): Independent Study (Samuel Schmerler, class of 2011)
Biology 1950 (spring 10): Independent Study (Samuel Schmerler, class of 2011)

2010-2011

Biology 0430 was not taught as I had one semester of maternal teaching relief.
Biology 1950 (fall 10): Independent Study (Samuel Schmerler, class of 2011, Elizabeth Spriggs, class of 2011)
LDAR 22ST: X-mutations of an infrastructural city. Guest lecturer/advisor in RISD Landscape Architecture course
Biology 1950 (spring 11): Independent Study (Samuel Schmerler, class of 2011, Elizabeth Spriggs, class of 2011)
Biology 1500: Plant Physiological Ecology (sole instructor, enrollment 16)

2011-2012

Biology 0430: The Evolution of Plant Diversity (sole instructor, enrollment 25)
Biology 2980: Graduate Seminar in Tropical Ecology (many instructors, enrollment 9)

Biology 1950 (fall 11): Independent Study (Alejandro Brambila, class of 2012; Asya Rahlin, class of 2012)

Biology 1950 (spring 2012): Independent Study (Alejandro Brambila, class of 2012)

2012-2013

Biology 0430: The Evolution of Plant Diversity (sole instructor, enrollment 17)

Biology 1500: Plant Physiological Ecology (sole instructor, enrollment 15)

GISP: Introductory Mycology (faculty sponsor, enrollment 3)

2013-2014

Biology 1500: Plant Physiological Ecology (sole instructor, enrollment 19)

Biology 2470: Graduate Seminar in Biome Evolution (sole instructor, enrollment 8)

Advising

Advised post-doctoral researchers: Monica Arakaki, 2009-2012; Pascal-Antoine Christin, 2010-2012; Radika Bhaskar, 2011-2014; David Chatelet 2010-present; Jurrian deVos, 2013-present; Abigail Moore, 2013-present.

Advised graduate students: R. Matthew Ogburn, 2007- 2012; Laura Garrison, 2010-present; Lillian Hancock, 2012-present; Morgan Moeglein, 2014-present.

Graduate student committee member: Caroline Harper (Brown EEB, 2009-2013); Li Gao (Brown Geology, 2010-2012); Beth Forrestal (Yale University, 2009-present); Emily Hollenbeck (Brown EEB, 2012-present); Kealoha Kinney (Brown EEB, 2013-present); Elizabeth Spriggs (Yale University 2013-present).

Thesis Reader: Adisorn Chang, 2008; Kaya Schmandt 2008; Emily Josephs 2008; Christopher Sinatra 2010, Andre Burnier 2011, Emma Dixon 2013, Rosalyn Price-Waldman 2014.

Undergraduate Honor's Thesis Advisor: Samuel Schmerler 2011; Elizabeth Spriggs 2011; Anastasia Rahlin 2012; Alejandro Brambila 2012; Arisa Lohemier (current); Eric Kelosa-Kenyon (current); Regan Lichtenberg (current).

Summer UTRA Advising: Samuel Schmerler 2009; Anne Williard 2009; Anastasia Rahlin 2010; Arisa Lohemier 2011; Jennifer Cardona 2013; Eric Kelosa-Kenyon 2014.

Updated August 2014.