

David J. Freedman, Ph.D.

Professor, Department of Neurobiology and
Chair, Graduate Program in Computational Neuroscience
The University of Chicago

Contact Information

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Department of Neurobiology
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Education

1997-2002 Ph.D. in Systems Neuroscience, Massachusetts Institute of Technology (MIT)
1993-1997 B.A. in Brain and Cognitive Sciences, University of Rochester

Current Positions

2016- Professor, Department of Neurobiology, The University of Chicago
2015- Chair, Graduate Program in Computational Neuroscience, The University of Chicago

Past Positions

2014-2016 Associate Professor (tenured), Department of Neurobiology, The University of Chicago
2008-2014 Assistant Professor, Department of Neurobiology, The University of Chicago
2003-2008 Postdoctoral Research Fellow, Laboratory of John Assad at Harvard Medical School
2002-2003 Postdoctoral Associate, Laboratory of Earl K. Miller at MIT
1997-2002 Graduate Student, Laboratory of Earl K. Miller at MIT
1996-1997 Research Assistant, Laboratories of Walter Makous and David R. Williams at U Rochester

Honors, Awards and Fellowships

2018 University of Chicago Faculty Award for Excellence in Graduate Teaching and Mentoring
2018 Vannevar Bush Faculty Fellowship from USA Department of Defense
2017 Elected Member, Memory Disorders Research Society
2016 National Academy of Sciences Troland Award
2013 Elected Member, International Neuropsychological Symposium
2013 University of Chicago Distinguished Junior Investigator Award in Biomedical Sciences
2012 McKnight Scholar Award
2010 Sloan Research Fellowship
2010 National Science Foundation CAREER Award
2008 Brain Research Foundation Fay/Frank Award
2006 King Trust and Charles H. Hood Foundation Postdoctoral Fellowship
2006 Edward R. and Anne G. Lefler Center Postdoctoral Fellowship (declined)
2005 Eli Lilly Society for Neuroscience Chapters Postdoctoral Travel Fellowship Award
2003 NIH Kirschstein National Research Service Award Individual Postdoctoral Fellowship
2002 Outstanding Ph.D. Thesis Award, Department of Brain and Cognitive Sciences, MIT
1999 Lucille P. Markey Charitable Trust Fellowship Award
1997 Cum Laude, University of Rochester

Currently Funded Grants

Federal

2014-2018 NIH R01, EY019041 (NEI), PI
2016-2019 NSF-NCS, 1631571, Role: Co-PI with Xiao-Jing Wang (NYU)
2017-2022 NIH R01, MH115555 (NIMH), Co-PI with Nicolas Brunel (Duke) and Yali Amit (UChicago)
2018-2023 Department of Defense Vannevar Bush Faculty Fellowship

Completed Grants

Federal

2009-2014 NIH R01, EY019041 (NEI), Role: PI
2010-2012 NIH R03, NS067322 (NINDS), Role: PI
2010-2015 NSF CAREER Award 0955640, Role: PI
2010-2015 NIH R01, CRCNS MH092927 (NIMH), Role: Co-PI with Xiao-Jing Wang (NYU)

Private

2010-2011 Brain Research Foundation Fay/Frank Seed Grant
2008-2009 Brain Research Foundation Fay/Frank Seed Grant
2012-2013 Brain Research Foundation Fay/Frank Seed Grant
2010-2014 Sloan Research Fellowship, Role: PI
2015-2016 Big Ideas Generator Vision Award
2012-2017 McKnight Scholar Award

Editorships and Editorial Boards

2010-2017 Associate Editor, *Frontiers in Perception Science*

Current Teaching (University of Chicago)

2011- BIOS 24208, Survey of Systems Neuroscience, graduate (several lectures)
2010- BIOS 25126, Animal Models of Human Disease, undergraduate (one lecture/year)
2009- BIOS 24205, Systems Neuroscience, undergraduate
Primary instructor and course organizer
2009-2014 U of Chicago, Psychiatry Residency Program (one lecture/year)

Past Teaching

2013 Neurobiology in Paris, primary lecturer
2010 U of Chicago, Medical Neurobiology (Medical School), several lectures
2009-2011 U of Chicago, CPNS 33100 Computational Neuroscience 2 (graduate), several lectures
1998-2000 MIT: Teaching Assistant: Introduction to Psychology (prof. Steven Pinker), Brain and Behavior Laboratory (prof. Earl Miller), Introduction to Neuroanatomy (prof. Mandar Jog).
1995-1997 University of Rochester: Teaching Assistant: Sensation and Perception (prof. David Williams), Mammalian Anatomy and Physiology (prof. Alan Dietsche).

Ad Hoc Reviewer

Animal Cognition, Cerebral Cortex, Cognitive Affective and Behavioral Neuroscience, COSYNE, Current Biology, eLife, European Journal of Neuroscience, Experimental Brain Research, Faculty of 1000, Frontiers in Systems Neuroscience, Hippocampus, Journal of Cognitive Neuroscience, Journal of Experimental Psychology, Journal of Neurophysiology, Journal of Neuroscience, Journal of Neuroscience Methods, Learning and Memory, PLoS, PLoS Computational Biology, PNAS, Nature, Nature Neuroscience, Neural Computation, Neuron, Science, Psychological Science, Vision Research

Study Sections and Grant Review Service

NIH SPC study section (ad hoc, 2015), NIH K99 study section (ad hoc, 2014, 2015), National Science Foundation (ad hoc), Biotechnology and Biological Sciences Research Council (ad hoc), European Research Council (ad hoc), Flanders Research Council (ad hoc), University of Leuven Research Council (ad hoc), Wellcome Trust (ad hoc), Canada Foundation for Innovation review committee.

Academic Committees and Service

2016- Gordon Conference in The Neurobiology of Cognition, Vice-Chair (2018), Chair (2020)
2016- University of Chicago, BSD Strategic Advisory Committee
2016- University of Chicago, Center for Cognitive and Social Neuroscience, Executive Committee
2015- Chair, Graduate Program in Computational Neuroscience
2015 Chair, Grossman Institute & Dept. of Neurobiology Faculty Search Committee
2014- University of Chicago, Grossman Institute Steering Committee
2014 University of Chicago, Animal Resources Center Veterinarian Search Committee
2013- University of Chicago, Neuroscience Graduate Admissions Committee, Chair

2012-2013 University of Chicago, Dept. of Psychology, cognition search committee
2011-2013 Computational and Systems Neuroscience Conference (COSYNE), Program Committee
2011- U of Chicago, Undergraduate Neuroscience (NEURO) Club, Faculty Advisor
2011-2013 Chicago Chapter, Society for Neuroscience, Councilor
2011-2013 U of Chicago, Undergraduate Neuroscience Major Committee
2010 Gordon Conference in The Neurobiology of Cognition, Social Activities Chair
2009-2011 U of Chicago, Neurobiology Faculty Search Committee
2009- U of Chicago, Neuroscience Website Committee, Chair
2009- U of Chicago, Animal Resources Advisory Committee
2009-2013 U of Chicago, Executive Committee, Committee on Neurobiology
2009- U of Chicago, Executive Committee, Committee on Computational Neuroscience
2008-2009 U of Chicago, Neurobiology and Computational Neuroscience Admissions Committee
2008- U of Chicago, Neurobiology Faculty Chalk Seminar Series, organizer
2008-2011 U of Chicago, Neurobiology, Student Preliminary and Awards Committee
2006-2007 Harvard, Graduate student rotation supervisor, mentorship of first year graduate students
2000-2003 MIT, UROP supervisor, mentorship of MIT undergraduate research assistants
1998-1999 MIT, Chair and coordinator, Brain Lunch seminar series

Professional Memberships

Society for Neuroscience
American Association for the Advancement of Science
Chicago Chapter of the Society for Neuroscience
American Physiological Society
Vision Sciences Society

Peer-Reviewed Research Publications

Masse N.Y., Hodnefield J.M., and **Freedman D.J.** Mnemonic Encoding and Cortical Organization in Parietal and Prefrontal Cortices. *Journal of Neuroscience*, 37: 6098-6112, 2017.

Ibos G. and **Freedman D.J.** Sequential sensory and decision processing in posterior parietal cortex. *eLife*, 6: e23743.

Chaisangmongkon W., Swaminathan S.K., **Freedman D.J.**, and Wang X.J. Computing by robust transience: How the fronto-parietal network performs sequential category-based decisions. *Neuron*, 93: 1504-1517, 2017.

Ibos G. and **Freedman D.J.** Interaction between Spatial and Feature Attention in Posterior Parietal Cortex. *Neuron*, 91: 931-943, 2016.

Sarma A., Masse N.Y., Wang X.J., and **Freedman D.J.** Task Specific versus Generalized Mnemonic Representations in Parietal and Prefrontal Cortices. *Nature Neuroscience*, 19: 143-149, 2016.

Lim S., McKee J.L., Woloszyn L., Amit Y., **Freedman D.J.**, Sheinberg D.L., and Brunel N. Inferring learning rules from distribution of firing rates in cortical neurons. *Nature Neuroscience*, 18: 1804-1810, 2015.

Engel T.A., Chaisangmongkon W., **Freedman D.J.**, and Wang X.J. Choice-correlated activity fluctuations underlie learning of neuronal category representation. *Nature Communications*, 6: 6454, 2015.

McKee J.L., Riesenhuber M., Miller E.K., and **Freedman D.J.** Task Dependence of Visual and Category Representations in Prefrontal and Inferior Temporal Cortices. *Journal of Neuroscience*, 34: 16065-16075, 2014.

Murray J.D., Bernacchia A., **Freedman D.J.**, Romo R., Wallis J.D., Cai X., Padoa-Schioppa C., Pasternak T., Seo, H., Lee D., and Wang X.J. A Hierarchy of Intrinsic Timescales Across Primate Cortex. *Nature Neuroscience*, 17: 1661-1663, 2014.

Ibos G. and **Freedman D.J.** Dynamic integration of task-relevant visual features in posterior parietal cortex. *Neuron*, 83: 1468-1480, 2014.

Swaminathan S.K.*, Masse N.Y.*, and **Freedman D.J.** A comparison of lateral and medial intraparietal areas during a visual categorization task. *Journal of Neuroscience*, 33: 13157-13170, 2013.

Rishel C.A., Huang G., and **Freedman D.J.** Independent category and spatial encoding in parietal cortex. *Neuron*, 77: 969-979, 2013.

Fitzgerald J.K., **Freedman D.J.**, Fanini A., Bennur S., Gold J.I., and Assad J.A. Biased associative representations in parietal cortex. *Neuron*, 77: 180-191, 2013.

Asaad W.F., Santhanam N., McClellan S.M., and **Freedman D.J.** High-performance execution of psychophysical tasks with complex visual stimuli in MATLAB. *Journal of Neurophysiology*, 109: 249-260, 2013.

Swaminathan S.K. and **Freedman D.J.** Preferential encoding of visual categories in parietal cortex compared to prefrontal cortex. *Nature Neuroscience*, 15: 315-320, 2012.

Fitzgerald J.K., **Freedman D.J.**, and Assad J.A. Generalized Associative Representations in Parietal Cortex. *Nature Neuroscience*, 14: 1075-1079, 2011.

Freedman D.J. and Assad J.A. Distinct Encoding of Spatial and Non-Spatial Factors in Parietal Cortex. *Journal of Neuroscience*, 29: 5671-5680, 2009.

Meyers E.M., **Freedman D.J.**, Krieman G., Miller E.K., Poggio T. Dynamic population coding of category information in inferior temporal and prefrontal cortex. *Journal of Neurophysiology*, 100: 1407-1419, 2008.

Freedman D.J. and Assad J.A. Experience-Dependent Representation of Visual Categories in Parietal Cortex. *Nature*, 443: 85-88, 2006.

Freedman D.J., Riesenhuber M., Poggio T., and Miller E.K. Experience-Dependent Sharpening of Visual Shape Selectivity in Inferior Temporal Cortex. *Cerebral Cortex*, 16: 1631-1644, 2006.

Freedman D.J., Riesenhuber M., Poggio T., and Miller E.K. A Comparison of Primate Prefrontal and Inferior Temporal Cortices During Visual Categorization. *Journal of Neuroscience*, 23: 5235-5246, 2003.

Nieder A., **Freedman D.J.**, and Miller E.K. Representation of the Quantity of Visual Items in the Primate Prefrontal Cortex. *Science*, 297: 1708-1711, 2002.

Freedman D.J., Riesenhuber M., Poggio T., and Miller E.K. Visual Categorization and the Primate Prefrontal Cortex: Neurophysiology and Behavior. *Journal of Neurophysiology*, 88: 914-928, 2002.

Freedman D.J., Riesenhuber M., Poggio T., Miller E.K. Categorical Representation of Visual Stimuli in the Primate Prefrontal Cortex. *Science*, 291: 312-316, 2001.

Reviews and Book Chapters

Freedman D.J. and Ibos G. An integrative framework for sensory, motor, and cognitive functions of posterior parietal cortex. *Neuron*, in press.

Freedman D.J. and Pesaran B. Where are perceptual decisions made in the brain? Trends in Neurosciences, 39: 642-644, 2016.

Assad J.A. and **Freedman D.J.** Neuronal Mechanisms of Visual Categorization: An Abstract View on Decision Making. *Annual Review of Neuroscience*, 39:129-147, 2016.

Fitzgerald J.K., Swaminathan S.K., and **Freedman D.J.** Visual categorization and the Parietal Cortex. *Frontiers in Integrative Neuroscience*, 6: 18, 2012.

Freedman D.J. and Assad J.A. A Proposed Common Neural Mechanisms for Categorization and Perceptual Decisions. *Nature Neuroscience*, 14:143-146, 2011.

Freedman D.J. Visual Categorization: Physiological Mechanisms. In: *The Sage Encyclopedia of Perception*. Goldstein B.E. (ed.). Sage Publications, 2010.

Freedman D.J. Neuronal Mechanisms of Visual Categorization and Category Learning. In: *The Neuroscience of Rule-Guided Behavior*. Wallis J.D. and Bunge S. (eds.). Oxford University Press, pp 391-418, 2007.

Miller E.K., Nieder A., **Freedman D.J.**, and Wallis J.D. Neural Correlates of Categories and Concepts. *Current Opinion in Neurobiology*, 13:2:198-203, 2003.

Miller E.K., **Freedman D.J.**, and Wallis J.D. The Prefrontal Cortex: Categories, Concepts, and Cognition. *Philosophical Transactions of the Royal Society London: Biological Sciences*, 357: 1123-1136, 2002.

Technical reports, commentary, and conference proceedings

Freedman D.J. Familiarity Breeds Plasticity: Distinct Effects of Experience on Putative Excitatory and Inhibitory Neurons in Inferior Temporal Cortex. *Neuron*, 74: 8-11, 2012.

Freedman D.J. and Miller E.K. Neural Mechanisms of Visual Categorization: Insights from Neurophysiology. *Neuroscience and Biobehavioral Reviews*, 32: 311-329, 2008.

Freedman D.J. Posterior Parietal Cortex: Space...and Beyond. *Neuron*, 42: 881-883, 2004.

Knoblich U., **Freedman D.J.**, and Riesenhuber M. Categorization in IT and PFC: Model and Experiments. *AI Memo*, 2002-007, Artificial Intelligence Lab, Massachusetts Institute of Technology, 2002.

Invited Talks and Symposia

2018

University of California Irvine. Neuroscience Seminar. Irvine, CA. February.

Johns Hopkins University. Mind/Brain Institute Bodian Seminar. Baltimore, MD. April.

Montana State University. Department of Cell Biology and Neuroscience seminar. Bozeman, MT. Sept.

2017

Winter Conference in Neural Plasticity Symposium on Working Memory. St. George, Grenada. February.

University of Wisconsin Madison, Department of Neuroscience Seminar. Madison, WI. March.

Yale University School of Medicine, Department of Neuroscience Seminar Series. New Haven, CT. June.

Memory Disorders Research Society Meeting, Chicago, IL. September.

2016

University of Texas at Austin. Center for Perceptual Systems seminar. Austin, TX. March.

Vision Sciences Society, Symposium on Parietal Cortex, Chair and Speaker. St. Petersburg, FL. May.

University of Chicago, Department of Psychology Seminar Series. Chicago, IL. May.

Gordon Research Conference, Neurobiology of Cognition. Sunday River, ME. July.

2015

UC San Diego, Psychology Department CNS Seminar Series speaker. San Diego, CA. January.

Salk Institute for Biological Studies Seminar. San Diego, CA. February.

Vision Sciences Society, Symposium on Visual Learning, invited speaker. St. Petersburg, FL. May.

Pint of Science Festival, Invited Speaker. Chicago, IL. May.

McKnight Conference on Neuroscience, invited speaker. Aspen, CO. June.

Society for Neuroscience Annual Meeting Minisymposium, Chair and Speaker. Chicago, IL. October.

Harvard University, Department of Psychology seminar. Cambridge, MA. October.
The University of Chicago, Booth School of Business Seminar. Chicago, IL. October.
New York University, Sloan Schwartz seminar. New York, NY. December.

2014

Chicago Skeptics Society, Chicago, IL. March.
University of Chicago, Alpha Delta Phi Literary Society. May.
DePaul University, Neuroscience Day Symposium invited speaker. May.
NSF/NIH Collaborative Research in Computational Neuroscience meeting. Tempe, AZ. October.

2013

Caltech, Computation and Neural Systems Seminar, Pasadena, CA. January.
Catholic University of Leuven, Lab for Neuro and Psychophysiology, Leuven, Belgium. February.
Université Paris Descartes, Institut Neurosciences Cognition Seminar, Paris, France. March
Michigan State University, Dept of Psychology, Cognitive Forum. Lansing, MI. April
University of Iowa, Behavioral and Cognitive Neuroscience Seminar, Iowa City, IA. May
University of Pennsylvania, Vision Colloquium Seminar. Philadelphia, PA. May
University of Chicago, Undergraduate NEURO Seminar. Chicago, IL. June

2012

Brain Research Foundation/Chicago Neuroscience Day, Chicago, IL. January.
Stanford University, Neuro-innovation & Translational Neuroscience Institute Seminar, Palo Alto, CA. Feb.
Computational and Systems Neuroscience (COSYNE) Meeting Workshop Chair, Salt Lake City, UT. Feb.
Perceptual Expertise Network Meeting, Invited Seminar, Chicago, IL. April.
Université Paris Descartes, Symposium on Decision Making, Invited speaker. Paris, France. June.
Columbia University, Department of Neuroscience Seminar, New York, NY. June.
Evolution and Function of Consciousness Symposium, University du Quebec a Montreal, Canada. July.
Carnegie Mellon, Center for the Neural Basis of Cognition, Pittsburgh, PA. December.

2011

Boston University, CELEST Science of Learning Seminar. Boston, MA. February.
University of Oregon, Department of Psychology Seminar. Eugene, OR. February.
Society for Neuroscience Chicago Chapter, Systems Neuroscience Symposium. Chicago, IL. March.
Champalimaud Foundation Neuroscience Program, Invited Lectures. Lisbon, Portugal. May.
International Neuropsychological Symposium, Mondsee, Austria. June.
Summer Institute of Cognitive Neuroscience, U California Santa Barbara, June. (declined)
University of Illinois at Chicago, Department of Psychology Seminar. Chicago, IL. August.
Collaborative Research in Computational Neuroscience, Princeton University, October.
Society for Neuroscience, Chair of Category Representations Nanosymposium. Washington, DC, Nov.

2010

Champalimaud Foundation Neuroscience Program, Invited Lectures. Lisbon, Portugal. April.
University of California Berkeley, Department of Psychology Seminar, Berkeley, CA. May.
AREADNE Conference, Santorini Island, Greece. June.
Gordon Research Conference, Neurobiology of Cognition, Waterville Valley, NH. August.
U of Western Ontario, Dept. of Physiology and Pharmacology Seminar, London, Ontario. September.
McGill University, Montreal Neurological Institute, Killam Lecture, Montreal, Quebec. October.
Georgetown University. Department of Neuroscience Seminar. Washington, DC. November.

2009

Computational and Systems Neuroscience Meeting Workshop, Salt Lake City, UT. March.
Johns Hopkins University, Zanvyl Krieger Mind/Brain Institute Bodian Seminar, March.
University of Minnesota, Department of Neuroscience Seminar, Minneapolis, MN. September.
Society for Neuroscience, Minisymposium on Non-Spatial Functions of Parietal Cortex, October.

2008

National Institute of Mental Health, Bethesda, MD. February.

The University of Chicago, Biopsychology Seminar Series, Chicago, IL. April.
Society for Neuroscience, Chair of Decision and Response Selection Session. Washington, DC, Nov.
Catholic University of Leuven, Symposium on Parietal Cortex, Leuven, Belgium. December.

2007

Washington University, Department of Anatomy and Neurobiology, St. Louis, MO. January.
University of Chicago, Department of Neurobiology, Chicago, IL. February.
Yale School of Medicine, Department of Neurobiology. New Haven, CT. February.
OIST Workshop on Cognitive Neurobiology, Okinawa, Japan. March.
Vanderbilt University, Institute of Imaging Science, Nashville, TN. April.
Brigham and Women's Hospital, Visual Attention Lab, Cambridge, MA. November.

2006

Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Boston, MA, April.
Experimental Psychology Society, Symposium on Categorical Perception. Plymouth, UK. July.
University of Glasgow, Department of Psychology. Glasgow, Scotland, UK. October.

2005

MIT, NIH-Conte Center for Detection and Recognition of Objects in Visual Cortex, September.
Harvard Medical School, Department of Neurobiology, Boston, MA, December.

2004

Harvard University, Department of Psychology, Cambridge, MA. February.
Johns Hopkins, Zanvyl Krieger Mind/Brain Institute, Baltimore, MD. March.
Johns Hopkins, Department of Psychological and Brain Sciences, Baltimore, MD. May.
MIT, NIH-Conte Center for Detection and Recognition of Objects in Visual Cortex, September.

2003

Cognitive Neuroscience of Category Learning Symposium. New York, NY. September.

2002

Harvard Medical School, Department of Neurobiology, Boston, MA. May.
National Institute of Mental Health, Bethesda, MD. May.

2001

MIT, Center for Biological and Computational Learning, Object Recognition Workshop. January.
Brown University Brain Science Program, March.
MIT, The Picower Center for Learning and Memory Retreat, Kennebunkport, ME. June.
RIKEN Brain Sciences Institute, Tokyo, Japan, October.

2000

MIT, The Picower Center for Learning and Memory Retreat, Ogunquit, ME. June.

Supervision of Students and Postdoctoral Researchers

Ph.D. Theses Supervised

2008-2012	Sruthi Swaminathan, U of Chicago Ph.D. student in neurobiology Currently: Research Specialist, Unilever Corporation
2008-2012	Christopher Rishel, U of Chicago, M.D./Ph.D. student in computational neuroscience Currently: Medical student at U of Chicago Pritzker School of Medicine
2009-2014	Jillian McKee, U of Chicago, M.D./Ph.D. student in computational neuroscience
2010-2015	Arup Sarma, U of Chicago, M.D./Ph.D. student in computational neuroscience Currently: Medical student at U of Chicago Pritzker School of Medicine
2012-	Jared Clemens, Ph.D. student in computational neuroscience
2014-	Krithika Mohan, Ph.D. student in neurobiology
2015-	William Johnston, Ph.D. student in computational neuroscience

Postdoctoral Researchers Supervised

2009- Guilhem Ibos, U of Chicago, postdoctoral scholar
2011- Nicolas Masse, U of Chicago postdoctoral scholar
2016- Yang Zhou, U of Chicago postdoctoral scholar

Other students supervised

2001-2003 Michelle Machon, MIT undergraduate
2008 Richard Williams, U of Chicago rotation graduate student in computational neuroscience
2008 Steve McClellan, Reed College, summer student
2008 Ryan Walters, U of Chicago, rotation graduate student in neurobiology
2008 Etienne Manderscheid, U of Chicago, rotation student in computational neuroscience
2009 Yelena Grinberg, U of Chicago, rotation student in neurobiology
2009-2010 Patrick Stinson, U of Chicago, undergraduate research assistant
2009-2010 Gang Huang, U of Chicago, undergraduate research assistant
2010 Adam Stevenson, U of Chicago undergraduate research assistant
2011-2013 Jonathan Hodnefield, U of Chicago undergraduate research assistant
2011 Arjun Venkataswamy, U of Chicago summer research technician
2012-2013 Alex Gonzalez, U of Chicago Ph.D. graduate student in neurobiology
2012- Maimon Rose, U of Chicago undergraduate research assistant
2013 Dana Simmons, U of Chicago rotation student in Neurobiology
2013 Aneesha Suresh, U of Chicago rotation student in Computational Neuroscience
2014 Nathan Buerkle, U of Chicago rotation student in Neurobiology
2014- Renata Poulton-Kamakura, U of Chicago undergraduate research assistant
2015- Oliver Zhu, U of Chicago undergraduate research assistant
2015 Julian Day-Cooney, U of Chicago rotation student in Neurobiology
2016 Maayan Levy, U of Chicago rotation student in Computational Neuroscience
2016 Barbara Peysakhovich, U of Chicago Ph.D. student in Computational Neuroscience

Service on Ph.D. Thesis Committees

Adam Dickey, The University of Chicago, Graduate Program in Computational Neuroscience, 2009-11
Yang Sun, The University of Chicago, Graduate Program in Integrative Neuroscience, 2010-11
Luke Woloszyn, Brown University, Graduate Program in Neuroscience, 2011-2012
Tim Brawn, The University of Chicago, Graduate Program in Psychology, 2012-2014
Alex Rajan, The University of Chicago, Graduate Program in Computational Neuroscience, 2012-
Jah Chaisangmongkon, Yale University Medical School, Program in Neuroscience, 2012-2015
Justin Lieber, The University of Chicago, Graduate Program in Computational Neuroscience 2013-
Doreen Rhee, The University of Chicago, Graduate Program in Neurobiology, 2013-
Joseph Lombardo, The University of Chicago, Graduate Program in Computational Neuroscience, 2015-
Thomas Luo, The University of Chicago, Graduate Program in Neurobiology, 2014-
Sofija Canavan, The University of Chicago, Graduate Program in Computational Neuroscience, 2016-
Julian Day-Cooney, The University of Chicago, Graduate Program in Computational Neuroscience, 2017-