

# Justin L. Gardner, PhD

Assistant Professor, Department of Psychology, Stanford University

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## Education

1989 - 1993 BS, Computer Science, Yale University  
1996 - 2002 PhD, Bioengineering, University of California, Berkeley and UCSF

## Research and Professional Experience

1996 - 2002 Graduate Student, Lab of Stephen G. Lisberger, University of California, Berkeley and UCSF  
2002 - 2004 Postdoctoral Fellow, Lab of Keiji Tanaka, RIKEN Brain Science Institute  
2004 - 2009 Postdoctoral Fellow, Lab of David J. Heeger, New York University  
2009 - 2013 Unit Leader (Assistant Professor equivalent), RIKEN Brain Science Institute  
2011 - 2014 Adjunct Associate Professor, University of Tokyo, Department of Life Sciences  
2013 - 2015 Team Leader (Assistant/Associate Professor equivalent), RIKEN Brain Science Institute  
2014 - present Assistant Professor, Department of Psychology, Stanford University

## Industry

1993 - 1994 **Member of Technical Staff**, Epson Research and Development ASD Group, San Jose, CA  
Worked on image processing and compression algorithms and implementation  
Two research and development awards from Seiko-Epson  
1994 - 1996 **Programmer**, Smoking Car Productions, San Francisco, CA  
Core programmer on The Last Express, an action-adventure game by Jordan Mechner, published by Broderbund and SoftBank.

## Awards, Fellowships and Honors

1993 Tau Beta Pi national engineering honor society  
1993 BS in Computer Science awarded Cum Laude with Distinction in the major  
1996 - 1999 National Science Foundation Graduate Research Fellowship  
2001 - 2002 Burroughs Wellcome Fund Fellowship in Quantitative Biology  
2002 - 2004 Japan Society for the Promotion of Science (JSPS) Fellow  
2004 - 2007 NRSA from the National Eye Institute

2006 - 2009 Burroughs Wellcome Fund Career Award in the Biomedical Sciences  
2015 - 2016 Hellman Fellow  
2017 - 2020 Research to Prevent Blindness / Lions Clubs International Foundation: Low Vision  
Research Award

## Publications (peer-reviewed unless noted with a \*)

### Journal Articles

**Gardner, J. L.**, Anzai, A., Ohzawa, I., and Freeman, R. D. (1999) Linear and nonlinear contributions to orientation tuning of simple cells in the cat's striate cortex *Visual Neuroscience* 16:1115-1121

**Gardner, J. L.**, and Lisberger, S. G. (2001) Linked target selection for saccadic and smooth pursuit eye movements *The Journal of Neuroscience* 21(6):2075-2084

**Gardner, J. L.**, and Lisberger, S. G. (2002) Serial linkage of target selection for orienting and tracking eye movements *Nature Neuroscience* 5:892-899

Churchland, A. K., **Gardner, J. L.**, Chou, I. H., Priebe, N. J., and Lisberger, S. G. (2003) Directional anisotropies reveal a functional segregation of visual motion processing for perception and action *Neuron* 37:1001-1011

**Gardner, J. L.**, Tokiyama, S., and Lisberger, S. G. (2004) A population decoding framework for motion aftereffects on smooth pursuit eye movements *The Journal of Neuroscience* 24:9035-9048

**Gardner, J. L.**, Sun, P., Waggoner, R. A., Ueno K., Tanaka, K., and Cheng K. (2005) Contrast adaptation and representation in human early visual cortex *Neuron* 47:607-620

Sun, P., Ueno K., Waggoner, R. A., **Gardner, J. L.**, Tanaka, K., and Cheng K. (2007) A temporal frequency-dependent functional architecture in human V1 revealed by high-resolution fMRI *Nature Neuroscience* 10:1404-1406

**Gardner, J. L.**, Merriam, E. P., Movshon, J. A., and Heeger, D.J. (2008) Maps of visual space in human occipital cortex are retinotopic, not spatiotopic *The Journal of Neuroscience* 28:3988-3999

Dinstein, I., **Gardner, J. L.**, Jazayeri, M., and Heeger, D.J. (2008) Executed and observed movements have different distributed representations in human aIPS *The Journal of Neuroscience* 28:11231-11239

**Gardner, J. L.** (2010) Is cortical vasculature functionally organized? *Neuroimage* 49:1953-6

Offen, S., **Gardner, J. L.**, Schluppeck, D., and Heeger, D.J. (2010) Differential roles for frontal eye fields (FEFs) and intraparietal sulcus (IPS) in visual working memory and attention *Journal of Vision* 10:1-14

Liu, T., Hospadaruk, L., Zhu, D. C., and **Gardner, J. L.** (2011) Feature-specific attentional priority signals in human cortex *The Journal of Neuroscience* 31:4484-95

Pestilli, F., Carrasco, M., Heeger, D. J., and **Gardner, J. L.** (2011) Attentional enhancement via selection and pooling of early sensory responses in human visual cortex *Neuron* 72:832-46

Suzuki, S., Harasawa, N., Ueno, K., **Gardner, J. L.**, Ichinohe, N., Haruno, M., Cheng, K., and Nakahara H. (2012) Learning to simulate others' decisions *Neuron* 74:1125-37

Sun, P., **Gardner, J. L.**, Costagli, M., Ueno, K., Waggoner, R. A., Tanaka, K., and Cheng K. (2013) Demonstration of tuning to stimulus orientation in the human visual cortex: A high-resolution fMRI study with a novel continuous and periodic stimulation paradigm **Cerebral Cortex** 23:1618-29

Merriam, E. P., **Gardner, J. L.**, Movshon, J. A., and Heeger, D.J. (2013) Modulation of visual responses by gaze direction in human visual cortex **The Journal of Neuroscience** 33:9879-89

Costagli, M., Ueno, K., Sun, P., **Gardner, J. L.**, Wan, X., Ricciardi, E., Pietrini, P., Tanaka, K., and Cheng, K. (2014) Functional signifiers of changes in visual stimuli: Cortical responses to increments and decrements in motion coherence **Cerebral Cortex** 24:110-8

Hara, Y., Pestilli, F., and **Gardner, J. L.** (2014) Differing effects of attention in single-units and populations are well predicted by heterogeneous tuning and the normalization model of attention **Frontiers in Computational Neuroscience** 8:12

Vintch, B., and **Gardner, J. L.** (2014) Cortical correlates of human motion perception biases **The Journal of Neuroscience** 34:2592-2604

Hara, Y., and **Gardner, J. L.** (2014) Encoding of graded changes in spatial specificity of prior cues in human visual cortex **Journal of Neurophysiology** 112:2834-49

**Gardner, J. L.** (2015) A case for human systems neuroscience **Neuroscience** 296:130-137

\*Birman, D., and **Gardner, J. L.** (2016) Parietal and prefrontal: categorical differences? **Nature Neuroscience** 19:5-7 \*(News and Views, not peer-reviewed)

Abrahamyan, A., Silva, L. L., Dakin, S. C., Carandini, M., and **Gardner, J. L.** (2016) Adaptable history biases in human perceptual decisions **Proceedings of the National Academy of Sciences** 113.25:E3548-57

Liu, T., Cable, D., and **Gardner, J. L.** (2018) Inverted encoding models of human population response conflate noise and neural tuning width **The Journal of Neuroscience** 38(2):398-408

Laquitaine, S., and **Gardner, J. L.** (2018) A switching observer for human perceptual estimation **Neuron** 97(2):462-474

Dobs, K., Schultz, J., Bulthoff, I., and **Gardner, J. L.** (2018) Task-dependent enhancement of facial expression and identity representations in human cortex **Neuroimage** 10:689-702

Birman, D., and **Gardner, J. L.** (2018) A quantitative framework for motion visibility in human cortex **Journal of Neurophysiology** 120(4):1824-1839

**Gardner, J. L.** (2019) Optimality and heuristics in perceptual neuroscience **Nature Neuroscience** 22:514-523

**Gardner, J. L.**, and Liu, T. (2019) Inverted encoding models reconstruct an arbitrary model response, not the stimulus **eNeuro** 6:e0363-18.2019 1-11

Fukuda, H., Ma, N., Suzuki, S., Harasawa, N., Ueno, K., **Gardner, J. L.**, Ichinohe, N., Haruno, M., Cheng, K., and Nakahara, H. (2019) Computing social value conversion in the human brain **The Journal of Neuroscience** 39(26):5153-72

Birman, D., and **Gardner, J. L.** (In press) A flexible readout mechanism of human sensory representations *Nature Communications*

## Patents

Tostevin, N. H., Moran, M. R., **Gardner, J. L.**, Marrero, N. M., and Cook, R. A. (1997) Digital cartoon and animation process *U.S. Patent Office* 6061462

## Teaching

- 2016 - current **Psych 50: Introduction to Cognitive Neuroscience**, Introductory Undergraduate (~200 students), Stanford Psychology Department, *Instructor and course designer*
- 2014 - current **Psych 164: Brain Decoding**, Upper-level Undergraduate (~20 students), Stanford Psychology Department, *Instructor and course designer*
- 2016 - current **NEPR 207: Neurosciences Cognitive Core**, Graduate (~20 students), Stanford Neurosciences PhD Program, *Co-instructor and course designer with Russ Poldrack*
- 2017 - current **Psych/NSUR 287: Brain Machine Interfaces: Science, Technology, and Application**, Graduate (~25 students), Stanford Psychology and Neurosurgery Departments, *Co-instructor with EJ Chichilnisky*
- 2016 **Psych 263: Cognitive Neuroscience: Vision**, Graduate (10 students), Stanford Psychology Department, *Instructor and course designer*
- 2015 **Psych 202: Cognitive Neuroscience Core**, Graduate (28 students), Stanford Psychology Department, *Co-instructor with Sam McClure*

## Research Funding

- 2009 - 2014 Lab budget  
RIKEN Brain Science Institute  
Role: Principle Investigator  
30,000,000 JPY/year (approx 375,000 USD)
- 2012 - 2014 *Priors in visual perception*  
Grant-in-aid for Scientific Research B (Competitive Japanese Government funding)  
Japanese Ministry of Education, Culture, Sports, Science and Technology  
Role: Principle Investigator  
14,000,000 JPY (approx 175,000 USD)
- 2013 Additional budget (Competitive internal funding)  
RIKEN Brain Science Institute  
Role: Principle Investigator  
10,925,000 JPY (approx 135,000 USD)

- 2015 - 2016 Hellman Faculty Scholar Fund  
Hellman Fellows Fund  
Role: Principle Investigator  
38,600 USD
- 2017 - 2020 Low Vision Research Award  
Research to Prevent Blindness  
Role: Principle Investigator  
300,000 USD
- 2019 - 2020 Human-Centered AI Seed Grant  
Human-Centered Artificial Intelligence, Stanford University  
Role: co-Principle Investigator, Tobias Gerstenberg (PI), Hyowon Gweon, Scott W. Linderman  
75,000 USD

## Invited talks

- April 21, 2003 **The Smith-Kettlewell Eye Research Institute** Stimulating the cognitive: Serial linkage of target selection for orienting and tracking eye movements. *Invited seminar.* San Francisco, CA
- Sept 12, 2003 **Osaka University** Stimulating the cognitive: Serial linkage of target selection for orienting and tracking eye movements. *Invited seminar.* Osaka, Japan
- Nov 28, 2003 **National Institute for Physiological Sciences** Contrast adaptation and the BOLD signal in early human visual cortex. *Symposium Talk.* Okazaki, Japan
- Feb 5, 2004 **Hokkaido University** Horizontal shifts of contrast response curves after contrast adaptation in human visual cortex. *Invited seminar.* Sapporo Japan
- Jan 4, 2005 **Columbia University** Stimulating the cognitive: Serial linkage of target selection for orienting and tracking eye movements. *Invited seminar.* New York, NY
- Oct 6, 2005 **The Smith-Kettlewell Eye Research Institute** Contrast adaptation and representation in human early visual cortex. *Invited seminar.* San Francisco, CA
- Mar 9, 2006 **Cosyne 2006 Postconference Workshop** High spatial resolution imaging to determine the dependence on spatial scale of classifier performance. *Post Conference Workshop.* The Canyons, Utah
- Mar 28, 2006 **Yale University Magnetic Resonance Research Center** Contrast adaptation and a functional baseline for BOLD activity in human early visual cortex. *Invited Seminar.* New Haven, CT
- Oct 26, 2008 **Fall Vision Meeting** Inferring population responses in human visual cortex with classification analysis. *Invited talk.* University of Rochester, Rochester, NY
- May 24, 2010 **Neuroscience Research Institute, Gachon University of Medicine and Science** Linking human visual perception to brain activity measured with fMRI. *Invited talk.*

Incheon, Korea

- Sept 27, 2010 **ATR Computational Neuroscience Laboratories** Attentional enhancement of perceptual decision making through selection and pooling of early sensory responses in human visual cortex. *Invited talk*. Keihanna Science City, Kyoto
- Oct 21, 2010 **Brain and Cognitive Sciences, Seoul National University** Attentional enhancement via selection and pooling of human visual cortical responses. *Invited talk*. Seoul, Korea
- Nov 26, 2010 **Graduate School of Frontier Biosciences, Osaka University** The role of selection and pooling of human visual cortical responses in attentional enhancement. *Invited talk*. Osaka, Japan
- Jan 19, 2011 **Vision Society of Japan Meeting** Quantitatively using measured human cortical responses to account for improved contrast discrimination performance with attention. *Invited talk*. Tokyo
- Mar 8, 2011 **Kyoto University** Representation of a prior for slow speeds in human visual cortex. *Symposium talk*. International Workshop on Visual Motion Perception and its Brain Mechanism, Kyoto, Japan
- June 14, 2011 **Nottingham University** Attentional enhancement through selection and pooling of visual cortical signals. *Invited Talk*. Nottingham, UK
- June 15, 2011 **Newcastle University** Attentional enhancement through selection and pooling of visual cortical signals. *Invited Talk*. Newcastle, UK
- June 16, 2011 **Royal Holloway, University of London** Attentional enhancement through selection and pooling of visual cortical signals. *Invited Talk*. Egham, Surrey, UK
- Dec 2, 2011 **文部科学省 (Ministry of Education, Culture, Sports, Science and Technology)**  
「効率的選択」で脳は注意を向け集中を高める. *Press lecture*. Tokyo, Japan
- Feb 1, 2012 **Osaka University** Statistical decision making in understanding human visual perceptual inferences. *Invited Talk*. International Symposium on the Dynamics of Biosystems and Large Scale Information Systems, Osaka, Japan
- June 15, 2012 **Brain and Cognitive Sciences, Seoul National University** Biases in speed perception are encoded in human early visual cortex. *Invited talk*. Expanding Horizon of MRI in Neuroscience: SNU Brain Imaging Center Opening Symposium, Seoul, Korea
- Oct 18, 2012 **Emory University** Spatial priors enhance behavioral performance through efficient selection of visual cortical signals. *Invited talk*. Atlanta, GA
- Oct 19, 2012 **Harvard University** Human imaging of visual priors. *Symposium talk*. Cambridge, MA
- Dec 10, 2012 **University of California, Berkeley** Cortical mechanisms in humans which improve perception with prior information. *Invited talk*. Berkeley, CA
- Dec 11, 2012 **UCSF** Cortical mechanisms in humans which improve perception with prior

- information. *Invited talk*. San Francisco, CA
- Dec 13, 2012 **Stanford University** Cortical mechanisms in humans which improve perception with prior information. *Invited talk*. Stanford, CA
- Jan 15, 2013 **Salk Institute** Human cortical mechanisms which improve perception with prior information. *Invited talk*. San Diego, CA
- Mar 13, 2013 **Stanford University** Efficient selection of visual information. *Colloquium talk*. Stanford, CA
- May, 2013 **University of Tokyo** Human cortical mechanisms which improve perception with prior information. *Invited talk*. Tokyo, Japan
- July, 2013 **Taiwan Mind and Brain Imaging Center, National Cheng-Chi University** Cortical mechanisms in humans which improve perception with prior information. *Invited symposium and workshop talks*. Taipei, Taiwan
- Nov 29, 2013 **応用脳科学コンソーシアム, CAN: Consortium for Applied Neuroscience** 視覚注意について. *Invited seminar*. Tokyo, Japan
- Jan 17, 2014 **応用脳科学コンソーシアム, CAN: Consortium for Applied Neuroscience** 事前情報と視覚. *CAN Academy, Invited lecture*. Tokyo, Japan
- Mar 9, 2014 **Systems Neurobiology Spring School** Neural mechanisms for perceptual enhancement with spatial attention. *Invited lecture*. Kyoto, Japan
- Jun 25, 2014 **Summer Institute in Cognitive Neuroscience** Efficient selection of sensory signals for attention. *Invited lecture*. Santa Barbara, CA
- Mar 3, 2015 **International Symposium on Neural Mechanisms of Vision and Cognition** From contrast adaptation to efficient selection. *Invited talk*. CiNet, Osaka, Japan
- May 15, 2015 **Vision Science Society 15th Annual Meeting** Linking brain activity to visual attentional behavior considering multiple spatial-scales of measurement. *Symposium talk*. St. Pete Beach, FL
- April 28, 2016 **Center of Excellence for Learning in Education, Science and Technology, Boston University** Efficient selection of visual information in human visual cortex. *Invited talk*. Boston, MA
- June 30, 2017 **Qufu Vision Science Conference** Contrast adaptation in human visual cortex. *Symposium talk*. Qufu, China
- July 4, 2017 **Tsinghua University** Priors and heuristics in human visual perception. *Invited talk*. Beijing, China
- July 19, 2017 **RIKEN Brain Science Institute** Priors and heuristics in human visual perception. *Symposium talk*. Wako, Japan

- July 20, 2017 **Japan Neuroscience Society Meeting** Testing linking hypotheses for human visual perception. *Symposium talk*. Chiba, Japan
- Aug 28, 2017 **European Conference on Visual Perception** Asymmetric adaptability of choice history biases in human perceptual decisions. *Unraveling sequential dependencies in perceptual choice, Symposium talk*. Berlin, Germany
- Sept 7, 2017 **Donders Institute for Brain, Cognition and Behaviour** Priors and heuristics in human visual perception. *Invited talk*. Nijmegen, Netherlands
- Nov 23, 2017 **National Yang Ming University** Inverted encoding models of human population response conflate noise and neural tuning width. *Invited talk*. Taipei, Taiwan
- May 4, 2018 **BrainHack Global** Reverse-hacking the brain: Inferring neural coding properties from population measurements. *Invited speaker*. Indiana University, Bloomington, IN
- July 17, 2018 **CNS\*2018 Workshop on Methods of Information Theory in Computational Neuroscience** Optimality and heuristics for human perceptual inference. *Invited talk*. Allen Institute, Seattle, WA
- Aug 17, 2018 **2018 IEEE EMBS International Summer School** Inferring neural coding properties using inverted-encoding models of population response. *Invited speaker*. Beijing, China
- Aug 18, 2018 **1st Tsinghua Social Neuroscience Symposium** Sensory inference through heuristic solution. *Invited speaker*. Beijing, China
- Aug 19, 2018 **Beijing Normal University** Optimality and heuristics for human perceptual inference. *Invited talk*. Beijing, China
- Aug 20, 2018 **Institute of Biophysics of Chinese Academy of Sciences** Optimality and heuristics for human perceptual inference. *Invited talk*. Beijing, China
- April 19, 2019 **From Neural Activity to Behavior: Computation Modeling of the Nervous System Meeting** Linking models for human systems neuroscience. *Symposium talk*. NIMH, Bethesda, MD
- May 17, 2019 **Vision Science Society Annual Meeting** Inverted encoding models reconstruct the model response, not the stimulus. *Symposium talk*. St. Pete Beach, FL
- July 4, 2019 **Summer Institute in Cognitive Neuroscience** How to use (and how not to use) inverted encoding models. *Lab session with Tommy Sprague*. Santa Barbara, CA

## Committees

- 1999 - 2000 President of the Bioengineering Graduate Student Association, University of California, Berkeley and UCSF
- 1999 - 2000 Bioengineering Graduate Group Executive Committee, University of California, Berkeley and UCSF
- 2010 - 2011 Retreat Committee, RIKEN Brain Science Institute



2010	Computational Faculty Search Committee, RIKEN Brain Science Institute
2011 - 2013	Academic Council, RIKEN Brain Science Institute
2011	Faculty Search Committee, RIKEN Brain Science Institute
2012 - 2014	Summer Program Organizing Committee, RIKEN Brain Science Institute
2012 - 2014	Brain Science Training Program Selection Committee, RIKEN Brain Science Institute
2014 - 2016	Undergraduate Program Committee, Stanford Psychology Department
2015 -	Colloquium Committee, Stanford Psychology Department
2015, 2018	SNI Scholars, Stanford Neurosciences Institute
2017 -	Stanford Neurosciences Graduate Admissions, Stanford Neurosciences PhD Program
2018	Big Ideas Committee, Stanford Neurosciences Institute

## Conference Session Organizing

Mar 4, 2008	What can functional imaging tell us about population coding in sensory systems?: Bridging computation, single neurons and imaging, Organizers: <b>Gardner, J. L.</b> , Huk, A. and Schluppeck, D. <b>Cosyne Workshops</b> , Snowbird, Utah
Mar 3, 2009	Common computational principals of attention and decision making: can they account for unexpected observations in parietal cortex?, Organizers: Churchland, A. K., Ditterich, J. and <b>Gardner, J. L.</b> <b>Cosyne Workshops</b> , Snowbird, Utah
Mar 5, 2013	Priors in perception, decision-making and physiology, Organizers: <b>Gardner, J. L.</b> and Nienborg, H. <b>Cosyne Workshops</b> , Snowbird, Utah
May 15, 2015	Linking behavior to different measures of cortical activity, Organizers: <b>Gardner, J. L.</b> , Serences, J. and Pestilli, F. <b>Vision Science Society Workshops</b> , St. Pete beach, FL

## Other teaching

2000	Computational Neuroscience: Vision, Cold Spring Harbor Laboratory, <i>Teaching Assistant</i>
2007	Functional Magnetic Resonance Imaging Lab, New York University, <i>Guest Lecturer</i>
2009 - 2014	Decision Journal Club, RIKEN Brain Science Institute, <i>Co-organizer with Hiro Nakahara</i>
2011 - 2013	Undergraduate Introductory Neuroscience Course, University of Tokyo, <i>Guest Lecturer</i>
2011 - 2013	Brain Science Training Program, RIKEN Brain Science Institute, <i>Guest Lecturer</i>
2016 - 2019	Minds and Machines (Symbolic Systems 1), Stanford University, <i>Guest Lecturer</i>
2017	Advanced fMRI modeling and analysis (Psych 248), Stanford University, <i>Guest Lecturer</i>
2019	Human Neuroimaging Methods (Psych 204A), Stanford University, <i>Guest Lecturer</i>
2019	Statistical Methods for Behavioral and Social Sciences (Psych 252), Stanford University, <i>Guest Lecturer</i>
2019	Experimental Immersion in Neuroscience (NSUR 249), Stanford University, <i>Guest Lecturer</i>

## Teaching Grants

2016	Education Scholarship Innovation Grant Stanford Medicine Teaching and Mentoring Academy Role: Faculty sponsor for Guillaume Riesen
2016, 2017	Curriculum Development Grant Stanford Vice Provost for Undergraduate Education

Role: Instructor

## **Mentorship**

### ***Post-docs***

2009 *Franco Pestilli*, PhD, Psychology, New York University  
2012 - 2016 *Ilias Rentzeperis*, PhD, Neuroscience, Swiss Federal Institute of Technology (ETH)  
2012 - 2016 *Steeve Laquitaine*, PhD, Neurosciences, University of Bordeaux  
2012 - 2016 *Arman Abrahamyan*, PhD, Experimental Psychology, University of Western Sydney  
2019 - *Pegah Kassraian Fard*, PhD, Computational Neuroscience, ETH Zurich

### ***Graduate students***

2014 - present *Dan Birman*, Stanford Psychology Department  
2015 - present *Minyoung Lee*, Stanford Psychology Department  
2016 - present *Akshay Jagadeesh*, Stanford Psychology Department  
2015 - 2018 *Cameron McKenzie*, Stanford Psychology Department  
2016 - present *Guillaume Riesen*, Stanford Neurosciences PhD Program  
2018 - present *Jun Hwan (Joshua) Ryu*, Stanford Psychology Department

### ***Undergraduate students***

2015 - 2018 *Dylan Cable (Sterling Award 2018)*, Stanford Applied Math

### ***Postgraduate students***

2009 - 2012 *Yuko Hara*, BS, Yale University  
2013 - 2014 *Li-Feng Yeh*, M.S. Neuroscience, National Yang Ming University

### ***Summer interns***

2010 *G. Rodrigo Sigala*, Max Planck Institute for Biological Cybernetics (Lab of Gregor Rainer / Nikos Logothetis)  
2011 *Johan D Carlin*, Medical Research Council, University of Cambridge (Lab of Niko Kriegeskorte)  
2012 *Mackenzie Dolginow*, Harvard University (undergrad)  
2012 *Georgios Keliris*, Max Planck Institute for Biological Cybernetics (Lab of Nikos Logothetis)

### ***Internships***

2010 - 2014 *Brett Vintch*, New York University (Lab of Eero Simoncelli / Tony Movshon)  
2012 *Andrew Meso*, PhD, Visual Neuroscience, Royal Holloway University of London  
2013 - 2014 *Katharina Dobs*, Max Planck Institute for Biological Cybernetics (Lab of Bulthoff)

### ***Undergraduate advisor***

2016 Nathaniel Morris, Stanford Psychology Department  
2016 Kate Uhlman, Stanford Psychology Department  
2017 Holden Gibbons, Stanford Psychology Department  
2018 Vibha Puri, Stanford Psychology Department  
2018 Genevieve Singer, Stanford Psychology Department  
2018 Antigone Zoe Xenopoulos, Stanford Symbolic Systems Concentration Advisor  
2019 Sanja Savic, Stanford Psychology Department  
2019 Travis Joseph Ramirez, Stanford Symbolic Systems Concentration Advisor

## Dissertation committees

2015 Anthony Stigliani, Stanford Psychology Department  
2015 Stephanie Gagnon, Stanford Psychology Department  
2015 Becca Krock, Stanford Neurosciences  
2015 Moqian Tian, Stanford Psychology Department  
2016 Karen LaRocque, Stanford Psychology Department  
2016 Michael Waskom, Stanford Psychology Department  
2016 Rosemary Le, Stanford Psychology Department  
2017 Ruben van Bergen, Donders Institute for Brain, Cognition and Behavior, Radboud University  
2017 Yiran Duan, Stanford Psychology Department  
2018 Lior Bugatus, Stanford Psychology Department  
2018 Ben Naecker, Stanford Neurosciences

## Qualifying exam committees

2017 Arielle Keller, Stanford Neurosciences  
2018 Shaw Hsu, Stanford Biophysics  
2018 Corey Angelea Fernandez, Stanford Neurosciences  
2018 Eshed Margalit, Stanford Neurosciences  
2019 Minseung Choi, Stanford Neurosciences

## Masters

2018 Aarush Selvan, Stanford Symbolic Systems

## Service to Professional Organizations

*Ad hoc Manuscript Review:* Cerebral Cortex, Vision Research, Proceedings of the National Academy of Sciences, Neuron, Neuroimage, Nature Neuroscience, Nature, Journal of Vision, The Journal of Neuroscience, Journal of Neurophysiology

*Ad hoc Grant Review:* Netherlands Organisation for Scientific Research, Agence Nationale de la Recherche, Wellcome Trust, Human Frontiers Research Grants

## Specialized Training

- 1997                    **NSF Summer Institute in Japan Fellow**, Lab of Manabu Tanifuji, RIKEN Brain  
Science Institute, Wako, Japan
- 1998 + 2000        **Student and Teaching Assistant**, Computational Neuroscience: Vision, Cold Spring  
Harbor Laboratory, Cold Spring Harbor, NY

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