

## POSITIONS

<b>University of California, Berkeley</b> Assistant Professor Herbert Wertheim School of Optometry & Vision Science Helen Wills Neuroscience Institute	<b>2018 – present</b>
<b>Dartmouth College</b> Assistant Research Professor, Psychological and Brain Sciences Adjunct Assistant Professor, Computer Science	<b>2015 – 2018</b> 2015 – 2018 2016 – 2018
<b>Stanford University</b> Postdoctoral Research Scholar, Psychology	<b>2013 – 2015</b>

## EDUCATION

<b>University of California, Berkeley</b> <i>Ph.D., Neuroscience</i> Dissertation: Perception of Depth in Real and Pictured Environments (Advisor: Martin Banks)	<b>2007 – 2012</b>
<b>University of Chicago</b> <i>B.A., Psychology and English Language &amp; Literature (Phi Beta Kappa)</i>	<b>2003 – 2007</b>

## FELLOWSHIPS

National Science Foundation, <i>Graduate Research Fellowship</i>	2011
Department of Defense, <i>National Defense Science &amp; Engineering Graduate Fellowship</i>	2009
Howard Hughes Medical Institute, <i>Undergraduate Research Fellowship</i>	2006

## RESEARCH FUNDING

Hellman Fellows Fund (UC Berkeley), <i>A Bayesian model of visual impairment</i> (PI)	2022
Meta Reality Labs, <i>Perceptual distortions produced by spectacle magnification</i> (PI)	2022
National Science Foundation, <i>CAREER: Smartglasses for all</i> (PI)	2021
Facebook Reality Labs, <i>Adaptation to minification caused by spectacles</i> (PI)	2020
National Institute of Health, <i>Neural codes underlying visual segmentation</i> (co-I, PI Huang)	2020
CITRIS Core Seed Funding, <i>Enhancing obstacle visibility using a head-mounted vision aid</i> (co-PI)	2020
Google, <i>Characterizing the perceptual eyebox</i> (PI)	2019
Human Frontier Science Program, <i>Visual circuit adaptations in zebrafish &amp; cichlids</i> (co-I)	2018
Facebook Reality Labs, <i>Unrestricted gift</i>	2018
Neukom Institute (Dartmouth College), <i>Biologically-plausible model of associative learning</i> (co-PI)	2017
Intel, <i>Light Field Display ISRA Program, Unrestricted gift</i>	2017
Oculus, <i>Unrestricted Gift</i>	2017
Samsung, <i>Global Research Outreach, Monovision and focus-tunable near-eye displays</i> (co-I, PI Wetzstein)	2016
Microsoft, <i>Augmenting reality for the visually impaired, Unrestricted gift</i>	2015

## AWARDS

National Eye Institute, <i>Early Career Scientist Travel Grant</i>	2019
NVIDIA, <i>Academic GPU Award</i>	2016
Stanford University, <i>Henzl-Gabor Young Women in Science Travel Award</i>	2013
ARVO, <i>Vision Sciences Society Student Travel Award</i>	2012
UC Berkeley, <i>Outstanding Graduate Student Teaching Award</i>	2009

## ARTICLES

- E. Alexander, L.T. Cai, S. Fuchs, T.C. Hladnik, Y. Zhang, V. Subramanian, N.C. Guilbeault, C. Vijayakumar, M. Arunachalam, S.A. Juntti, T.R. Thiele, A.B. Arrenberg, and E.A. Cooper. Optic Flow in the Natural Habitats of Zebrafish Supports Spatial Biases in Visual Self-Motion Estimation. *Current Biology*, 32, 1-14, 2022
- T.S. Manning, B. Naecker, I.R. McLean, J. Pillow, B. Rokers and E.A. Cooper. A General Framework for Inferring Bayesian Ideal Observer Models from Psychophysical Data. *eNeuro*, in press
- S. Reeves, E.A. Cooper, R. Rodriguez and J. Otero-Millan. Head Orientation Influences Saccade Directions During Free Viewing. *eNeuro*, in press
- M. Wang, J. Ding and D.M. Levi and E.A. Cooper. The Effect of Spatial Structure on Binocular Contrast Perception. *Journal of Vision*, 22(12):7, 2022
- J.D. Nguyen, S. Tan, S. Azenkot, M.A. Chu and E.A. Cooper. Longitudinal Trends in Case Histories and Rehabilitative Device Assessments at Low Vision Exams. *Optometry & Vision Science*, in press
- M. Wang and E.A. Cooper. Perceptual Guidelines for Optimizing Field of View in Stereoscopic Augmented Reality Displays. *ACM Transactions on Applied Perception*, in press
- A.L. Boroshok, A.T. Park, P. Fotiadis, G.H. Velasquez, U.A. Tooley, K.R. Simon, J.C.P. Forde, L. Delgado Reyes, M.D. Tisdall, D.S. Bassett, E.A. Cooper and A.P. Mackey. Individual Differences in Frontoparietal Plasticity in Humans. *npj Science of Learning*, 7:14, 2022
- I.R. McLean, T.S. Manning and E.A. Cooper. Perceptual Adaptation to Continuous Versus Intermittent Exposure to Spatial Distortions. *Investigative Ophthalmology and Visual Science*, 63(5):29, 2022
- M. Kinateder and E.A. Cooper. Assessing Effects of Reduced Vision on Spatial Orientation Ability Using Virtual Reality. [Conference Paper] *Conference Proceedings of Spatial Cognition, BJMC*, 9(3), 243-259, 2021
- M. Wang and E.A. Cooper. A Re-Examination of Dichoptic Tone Mapping. *ACM Transactions on Graphics*, 40(2):13, 2021
- S.A. Cholewiak, Z. Başgöze, O. Cakmakci, D.M. Hoffman and E.A. Cooper. A Perceptual Eyebow for Near-Eye Displays. *Optics Express*, 28(25), 38008-38028, 2020
- T.E. Yerxa, E. Kee, M.R. DeWeese and E.A. Cooper. Efficient Sensory Coding of Multidimensional Stimuli. *PLOS Computational Biology*, 16(9):e1008146, 2020
- Z. Başgöze, D.N. White, J. Burge and E.A. Cooper. Natural Image Statistics at Depth Edges Modulate Perceptual Stability *Journal of Vision*, 20(8):10, 2020
- Z. Başgöze, J. Gualtieri, M.T. Sachs and E.A. Cooper. Navigational Aid Use by Individuals with Visual Impairments. [Conference Paper] *Journal on Technology & Persons with Disabilities*, 8, 22-39, 2020
- T. Tadros, N.C. Cullen, M.R. Greene and E.A. Cooper. Assessing Neural Network Scene Classification from Degraded Images. *ACM Transactions on Applied Perception*, 16(4):21, 2019
- J. Huang, M. Kinateder, M.J. Dunn, W. Jarosz, X. Yang and E.A. Cooper. An Augmented Reality Sign-reading Assistant for Users with Reduced Vision. *PLOS One*, 14(1):e0210630, 2019
- Z. Başgöze, A.P. Mackey and E.A. Cooper. Plasticity and Adaptation in Adult Binocular Vision. [Review Article] *Current Biology*, 28(24), R1406-R1413, 2018
- M. Kinateder, J. Gualtieri, M.J. Dunn, W. Jarosz, X. Yang and E.A. Cooper. Using an Augmented Reality Device as a Distance-Based Vision Aid – Promise and Limitations. *Optometry & Vision Science*, 95(9), 727-737, 2018

- B. Rokers, J.M. Fulvio, J. Pillow, and E.A. Cooper. Systematic Misperceptions of 3D Motion Explained by Bayesian Inference. *Journal of Vision*, 18(3):23, 2018
- E.A. Cooper and M.S. Banks. Perceived Facial Distortions in Selfies are Explained by Viewing Habits. [Commentary] *JAMA Facial Plastic Surgery*, 20(5), 431, 2018
- R. Konrad, N. Padmanaban, K. Molner, E.A. Cooper, and G. Wetzstein. Accommodation-invariant Computational Near-eye Displays. *ACM Transactions on Graphics (SIGGRAPH Conference Proceedings)*, 36(4):88, 2017
- N. Padmanaban, R. Konrad, T. Stramer, E.A. Cooper, and G. Wetzstein. Optimizing Virtual Reality for All Users Through Gaze Contingent and Adaptive Focus Displays. *Proceedings of the National Academy of Sciences*, 114(9), 2183-2188, 2017
- E.A. Cooper, M. van Ginkel, and B. Rokers. Sensitivity and Bias in the Discrimination of 2D and 3D Motion Direction. *Journal of Vision*, 16(10):5, 2016
- W.W. Sprague, E.A. Cooper, S. Reissier, B. Yellapragada, and M.S. Banks. The Natural Statistics of Blur. *Journal of Vision*, 16(10):23, 2016
- E.A. Cooper and A.P. Mackey. Sensory and Cognitive Plasticity: Implications for Academic Interventions. [Review Article] *Current Opinion in Behavioral Sciences*, 10, 21-27, 2016
- E.A. Cooper. A Normalized Contrast-encoding Model Exhibits Bright/dark Asymmetries Similar to Early Visual Neurons. *Physiological Reports*, 4(7):e12746, 2016
- R. Konrad, E.A. Cooper, and G. Wetzstein. Novel Optical Configurations for Virtual Reality: Evaluating User Preference and Performance with Focus-tunable and Monovision Near-eye Displays. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2016
- E.A. Cooper and A. Radonjic. Gender Representation in the Vision Sciences: a Longitudinal Study. *Journal of Vision*, 16(1):17, 2016
- E.A. Cooper and H. Farid. Does the Sun Revolve Around the Earth? A Comparison between the General Public and On-line Survey Respondents in Basic Scientific Knowledge. *Public Understanding of Science*, 25(2), 146-153, 2016
- W.W. Sprague\*, E.A. Cooper\*, I. Tomic and M.S. Banks. Stereopsis is Adaptive for the Natural Environment. *Science Advances*, 1(4):e1400254, 2015 \*Author order determined by coin toss
- E.A. Cooper and A.M. Norcia. Predicting Cortical Dark/Bright Asymmetries from Natural Image Statistics and Early Visual Transforms. *PLOS Computational Biology*, 11(5):e1004268, 2015
- D.E. Jacobs, O. Gallo, E.A. Cooper, K. Pulli, and M. Levoy. Simulating the Visual Experience of Very Bright and Very Dark Scenes. *ACM Transactions on Graphics*, 34(3):25, 2015
- E.A. Cooper and A.M. Norcia. Perceived Depth in Natural Images Reflects Encoding of Low-level Luminance Statistics. *Journal of Neuroscience*, 34(35), 11761-8, 2014
- M.S. Banks, E.A. Cooper, and E.A. Piazza. Camera Focal Length and the Perception of Pictures. *Ecological Psychology*, 26(1-2), 30-46, 2014
- E.A. Cooper, H. Jiang, V. Vildavski, J.E. Farrell, and A.M. Norcia. Assessment of OLED Displays for Vision Research. *Journal of Vision*, 13(12):16, 2013
- P. Vangorp, C. Richardt, E.A. Cooper, G. Chaurasia, M.S. Banks, and G. Drettakis. Perception of Perspective Distortions in Image-Based Rendering. *ACM Transactions on Graphics (SIGGRAPH Conference Proceedings)*, 32(4):58, 2013
- E.A. Cooper, E.A. Piazza, and M.S. Banks. The Perceptual Basis of Common Photographic Practice. *Journal of Vision*, 12(5):8, 2012

- R.T. Held, E.A. Cooper, and M.S. Banks. Blur and Disparity are Complementary Cues to Depth. *Current Biology*, 22(5), 426-31, 2012
- E.A. Cooper, J. Burge, and M.S. Banks. The Vertical Horopter is not Adaptable, but It may be Adaptive. *Journal of Vision*, 11(3):20, 2011
- E.A. Cooper, U. Hasson, and S.L. Small. Interpretation-Mediated Changes in Neural Activity During Language Comprehension. *NeuroImage*, 55(3), 1314-23, 2011
- R.T. Held, E.A. Cooper, J. O'Brien, and M.S. Banks. Using Blur to Affect Perceived Distance and Size. *ACM Transactions on Graphics*, 29(2):19, 2010

#### ABSTRACTS

- M. Wang, J. Ding, D. Levi and E.A. Cooper. The Multifaceted Appearance of Dichoptic Gratings and Noise Stimuli. *Journal of Vision*, in press
- T.S. Manning, J.W. Pillow, B. Rokers and E.A. Cooper. Humans Make Non-ideal Inferences about World Motion. *Journal of Vision*, in press
- I.R. McLean, I.M. Erkelens and E.A. Cooper. Binocular Perceptual Distortions Produced by Retinal Image Magnification. *Journal of Vision*, in press
- T.C. Hladnik, E. Alexander, L.T. Cai, Sabrina Fuchs, V. Krishna S., T. Thiele, E.A. Cooper and A. Arrenberg. A Spherical Arena for Visual Surround Stimulation and Calcium Imaging in Zebrafish. *Imaging Structure and Function of the Zebrafish Brain Conference*, 2022
- I.R. McLean, T.S. Manning and E.A. Cooper. Perceptual Adaptation to Continuous Versus Intermittent Spatial Distortions. *Society for Neuroscience*, 2021
- T.S. Manning, E. Alexander, G.C. DeAngelis, X. Huang and E.A. Cooper. Role of MT Disparity Tuning Biases in Figure-Ground Segregation. *Society for Neuroscience*, 2021
- S.M. Reeves, E.A. Cooper, R. Rodriguez and J. Otero-Millan. Head Tilt Influences Saccade Directions During Free Viewing. *Society for Neuroscience*, 2021
- T.S. Manning, I.R. McLean, B. Naecker, J. Pillow, B. Rokers and E.A. Cooper. Estimating Perceptual Priors with Finite Experiments. *Journal of Vision*, 21:2215, 2021
- M. Wang, J. Ding, D.M. Levi and E.A. Cooper. Binocular Contrast Perception of Gratings, Noise, and Natural Images. *Journal of Vision*, 21:2181, 2021
- E. Alexander, V. Krishna S., T.C. Hladnik, N.C. Guilbeault, L.T. Cai, T.R. Thiele, A.B. Arrenberg and Emily A. Cooper. Self-motion Cues in the Natural Habitats of Zebrafish Support Lower Visual Field Bias. *Journal of Vision*, 2021
- M. Wang and E.A. Cooper. A Re-examination of Dichoptic Tone Mapping Methods. *Journal of Vision*, 20:887, 2020
- L.T. Cai, V. Krishna, T. Hladnik, N. Guilbeault, S. Juntti, T. Thiele, A. Arrenberg and E.A. Cooper. Visual Statistics of Aquatic Environments in the Natural Habitats of Zebrafish. *Journal of Vision*, 20:433, 2020
- T. Thiele, S. Juntti, K. Wang, L. Cai, T. Hladnik, R. Meier, F. Dehmelt, J. Hinz, V. Subramanian, N. Guilbeault, E.A. Cooper and A. Arrenberg. Investigation of Visual Circuit Adaptations to Natural Environmental Motion in Zebrafish and Cichlids. *Zebrafish Neural Circuits and Behavior*, 2019
- Z. Başgöze, D. White, J. Burge and E.A. Cooper. Effects of Context on the Visual Stability of Depth Edges in Natural Scenes. *Journal of Vision*, 19:223a, 2019

- X. Huang, C. Wang, B. Arseneau, T.E. Yerxa and E.A. Cooper. Natural scene statistics of depth and motion pertinent to figure-ground segregation. *Society for Neuroscience*, 2019
- A. Boroshok, G. Velasquez, A. Park, K. Simon, J. Forde, E.A. Cooper and A.P. Mackey. Individual Differences in Human Frontoparietal Plasticity. *Flux Congress*, 2019
- M. Kinateder and E.A. Cooper. Using Visual Snapshots to Estimate Egocentric Orientation in Natural Environments. *Journal of Vision*, 18:513, 2018
- M. Kinateder, T. Pfaff, and E.A. Cooper. The Visual Features of Smoke. *Journal of Vision*, 17(10):415, 2017
- S. Finocchetti, E.A. Cooper, and M. Gori. Visual Experience and Spatial Reference Frames for Sound Localization. *International Multisensory Research Forum*, 2017
- N. Padmanaban, R. Konrad, E.A. Cooper, and G. Wetzstein. Optimizing Virtual Reality for All Users Through Adaptive Focus Displays. *SIGGRAPH*, 2017
- R. Konrad, N. Padmanaban, E.A. Cooper, and G. Wetzstein. Computational Focus-Tunable Near-Eye Displays. *SIGGRAPH Emerging Technologies*, 3, 2016
- M.S. Banks, W.W. Sprague, E.A. Cooper, and S. Reissier. How Natural Distributions of Blur Affect 3D Percepts. *Journal of Vision*, 16(12):195, 2016
- E.A. Cooper and A.M. Norcia. What are the Natural Scene Statistics of Cortical Input? *Journal of Vision*, 15(12):1287, 2015
- W.W. Sprague, E.A. Cooper and M.S Banks. Statistics of Retinal Image Blur During Natural Viewing. *Journal of Vision*, 15(12):766, 2015
- E.A. Cooper and A.M. Norcia. Perceived Depth in Natural Images Reflects Encoding of Low-Level Luminance Statistics. *Journal of Vision*, 14(10):1112, 2014
- W.W. Sprague, E.A. Cooper, J.-B. Durand, and M.S. Banks. Disparity Preferences in V1 Reflect the Statistics of Disparity in Natural Viewing. *Journal of Vision*, 14(10):1111, 2014
- A.M. Norcia, J.M. Ales, E.A. Cooper, and T. Weigand. Measuring Perceptual Differences between Compressed and Uncompressed Video Sequences using the Swept-Parameter Visual Evoked Potential. *Journal of Vision*, 14(10):649, 2014
- J. Yang, M. Andric, S. Duncan, A. Holt, U. Hasson, E.A. Cooper, and S.L. Small. Top-Down Modulation of Brain Networks During Discourse Comprehension. *Society for the Neurobiology of Language*, San Diego, CA, 2013
- E.A. Cooper, W.W. Sprague, I. Tomic, and M.S. Banks. Is Stereopsis Optimized for the Natural Environment? *Journal of Vision*, 13(9):612, 2013
- J. Yang, U. Hasson, E.A. Cooper, and S.L. Small. Influence of Selective Attention on Story Comprehension. *Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA, 2013
- E.A. Cooper and M.S. Banks. Perception of Depth in Pictures when Viewing from the Wrong Distance. *Journal of Vision*, 12(9):896, 2012
- E.A. Cooper, E.A. Piazza, and M.S. Banks. Depth Compression and Expansion in Photographs. *Journal of Vision*, 11(11):65, 2011
- E.A. Cooper, J. Burge, and M.S. Banks. Do People of Different Heights Have Different Horopters? *Journal of Vision*, 10(7):372, 2010
- R.T. Held, E.A. Cooper, and M.S. Banks. Blur and Disparity Provide Complementary Distance Information for Human

Vision. *Journal of Vision*, 10(7):57, 2010

R.T. Held, E.A. Cooper, J. O'Brien, and M.S. Banks. Making Big Things Look Small: Blur Combined With Other Depth Cues Affects Perceived Size and Distance. *Journal of Vision*, 9(8):959, 2009

E.A. Cooper, U. Hasson, and S.L. Small. Dimensions of Discourse: Brain Activation During the Processing of Temporal, Spatial, and Actional Information in Narrative. *Cognitive Neuroscience Society Annual Meeting*, New York, NY, 2007

#### INVITED TALKS

Improving Augmented Reality Through Perceptual Science, <i>Northwestern University</i>	2022
Taking a Binocular View of Augmented Reality System Design, <i>Stanford University</i>	2022
Perceptual Guidelines for Optimizing Field of View in Stereoscopic Augmented Reality, <i>Optica Virtual Panel</i>	2022
The Potential to Improve Vision with Augmented Reality, <i>SPIE AR VR MR Conference</i>	2022
Perceptual Science for Augmented Reality, <i>Cardiff University</i>	2021
3D Vision in Natural Environments, <i>UC Berkeley Neuroscience Bootcamp</i>	2021
A Perceptual Eyebox for Augmented Reality, <i>Stanford University</i>	2021
Perceptual Science for Augmented Reality, <i>Brown University</i>	2021
The Potential for Improving Impaired Vision with Augmented Reality, <i>UCB Learning in Retirement</i>	2020
Perceptual Science for Augmented Reality, <i>UC Berkeley Institute of Cognitive and Brain Sciences</i>	2020
Perceptual Science for Augmented Reality, <i>Northwestern University</i>	2020
Perceptual Science for Augmented Reality, <i>Smith Kettlewell</i>	2020
A Perceptual Eyebox for Augmented Reality, <i>SNAP</i>	2020
Natural and Virtual 3D Vision, <i>UNR Big Data Summer School</i>	2020
Understanding Visual Demands for Aquatic Animals used in Neuroscience Research, <i>Sussex Visions</i>	2020
A Perceptual Eyebox for Augmented Reality, <i>Google</i>	2019
A Perceptual Eyebox for Augmented Reality, <i>UC Berkeley Vive Center</i>	2019
3D Vision in Natural Environments, <i>UC Berkeley Neuroscience Bootcamp</i>	2019
3D Vision, <i>Cold Spring Harbor Laboratory: Vision Course</i>	2019
Considering Individual Differences in Vision for AR/VR, <i>Magic Leap</i>	2019
3D Vision in Natural Environments, <i>UC Berkeley Institute of Cognitive and Brain Sciences</i>	2019
3D Vision in Natural Environments, <i>SUNY Optometry</i>	2019
3D Vision in Natural Environments, <i>Bay Area Vision Research Day</i>	2018
Insights Across Animal Models, Computational Models, & Humans, <i>Computational Cognitive Neuroscience</i>	2018
Using AR/VR to Better Understand Individual Differences in Vision, <i>Oculus</i>	2018
The Potential for Improving Impaired Vision with Augmented Reality, <i>OSA Frontiers in Optics</i>	2017
What 3D Scene Statistics Tell Us About 3D Vision, <i>Harvard Medical School</i>	2017
Designing and Assessing VR/AR Displays to Increase User Inclusivity, <i>VSS Symposia</i>	2017
What More can Natural Images Tell Us About ON and OFF Pathways? <i>Cosyne Workshop</i>	2017
Designing and Assessing VR/AR Displays to Increase User Inclusivity, <i>Google</i>	2017
Designing and Assessing VR/AR Displays to Increase User Inclusivity, <i>Stanford SCIEN</i>	2017
What 3D Scene Statistics Tell Us About 3D Vision, <i>University of Pennsylvania</i>	2016
What 3D Scene Statistics Tell Us About 3D Vision, <i>Rochester Institute of Technology</i>	2016
What 3D Scene Statistics Tell Us About 3D Vision, <i>UW Madison</i>	2016
What 3D Scene Statistics Tell Us About 3D Vision, <i>UT Austin NETI Workshop</i>	2016
The Computational Demands of Biological Stereovision, <i>Massachusetts Institute of Technology</i>	2015
The Visual Representation of Brights and Darks, <i>Italian Institute of Technology</i>	2015
The Computational Demands of Biological Stereovision, <i>Middlebury College</i>	2015
Creating Illusions of Depth, <i>Google</i>	2014
Is Stereopsis Optimized for Our Natural Environment? <i>Bay Area Vision Research Day</i>	2013
Is 3D Vision Optimized for Our Natural Environment? <i>Dartmouth College</i>	2013
Is Stereopsis Optimized for Our Natural Environment? <i>Bay Area Society for Information Display</i>	2012
The Perceptual Basis of Common Photographic Techniques, <i>Stanford University</i>	2012

#### TEACHING

UC Berkeley, Neurosci 290A Neuroscience Research Design & Analysis (guest lecturer)	Fall 2022
UC Berkeley, VS 260D Seeing in Time, Space, and Color	Spring 2022
UC Berkeley, VS 219 Binocular Vision and Space Perception	Spring 2022
UC Berkeley, Neurosci 290A Neuroscience Research Design & Analysis (guest lecturer)	Fall 2021
UC Berkeley, VS 260D Seeing in Time, Space, and Color	Spring 2021
UC Berkeley, VS 217 Oculomotor Function & Neurology	Spring 2021
UC Berkeley, Neurosci 290A Neuroscience Research Design & Analysis (guest lecturer)	Fall 2020
UC Berkeley, VS 260D Seeing in Time, Space, and Color	Spring 2020
UC Berkeley, VS 217 Oculomotor Function & Neurology	Spring 2020
UC Berkeley, Neurosci 290A Neuroscience Research Design & Analysis (guest lecturer)	Fall 2019
UC Berkeley, VS 260D Seeing in Time, Space, and Color (guest lecturer)	Spring 2019
Dartmouth College, Functional Neuroanatomy	Spring 2018
Dartmouth College, Technology, Psychology & Neuroscience	Spring 2017
Dartmouth College, Functional Neuroanatomy	Spring 2016
UC Berkeley, MCB 61 Brain, Mind & Behavior (graduate student instructor)	Spring 2010
UC Berkeley, MCB 163 Mammalian Neuroanatomy (graduate student instructor)	Fall 2008

#### FORMER ADVISEES

Jonathan Huang, Undergraduate Senior Thesis Student (Computer Science)	2015 – 2017
Tim Tadros, Undergraduate Senior Thesis Student (Computer Science)	2015 – 2017
Irene Feng, Undergraduate Senior Thesis Student (Computer Science)	2016 – 2017
Max Kinateder, Postdoctoral Researcher	2016 – 2018
Thomas Yerxa, Undergraduate Senior Thesis Student (Physics)	2018 – 2019
Zeynep Başgöze, Postdoctoral Researcher	2017 – 2020
Tianhao Cai, Postdoctoral Researcher	2018 – 2020
Jacqueline Nguyen, OD Honors Thesis Student	2019 – 2021
Emma Alexander, Postdoctoral Researcher	2020 – 2022

#### OTHER ACTIVITIES

##### *UC Berkeley*

Optometry Mentorship Pilot Program, Faculty Mentor	2021 –
NIH/UNR ENDURE Program, Faculty Facilitator	2021 –
Vision Science Program, Faculty Advisor for Post-Doctoral Affairs	2021 –
Center for Innovation in Vision and Optics Outreach Program, Coordinator	2020 –
Fiat Lux Scholarship Program, Faculty Interviewer/Mentor	2020 –
Cognitive Science Major, Affiliated Faculty	2019 –
Vision Science Student Outreach, Faculty Liaison	2019 –
Institute of Cognitive and Brain Sciences, Faculty Member	2018 –
Center for Innovation in Vision and Optics, Co-Director	2018 –

##### *UC Berkeley – Committees*

School of Optometry, Faculty Hiring Planning Committee Member	2022 –
School of Optometry, O.D. Admissions Committee Member	2021 –
School of Optometry, PCO Faculty Search Committee Member	2021 – 2021
Helen Wills Neuroscience Institute, Graduate Admissions Committee Member	2020 – 2021
Vision Science Graduate Program, Admissions Committee Member	2019 – 2022
Helen Wills Neuroscience Institute, Graduate Admissions Committee Member	2010 – 2011
Helen Wills Neuroscience Institute, Speaker Series Committee Member	2008 – 2010

##### *External*

Cold Spring Harbor Lab, Computational Neuroscience: Vision, Course Organizer/Instructor	2022 –
Eurographics, State-of-the-art Reports Program Committee Member	2022 – 2023

National Science Foundation, Panel and Ad Hoc Grant Proposal Reviewer	2021 – 2022
Society for Information Display Applied Vision Subcommittee Member	2020 – 2021
Females of Vision et al., Advisory Board Member	2018 –
Mind & Brain Night, After School Activity Night Coordinator	2008 – 2012
Community Resources for Science, Middle School Classroom Volunteer	2008 – 2012