

Mark Schurgin

Google Health, Palo Alto Campus

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Education & Professional Experience

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| 2019-present | Senior User Experience Researcher Google Health | <i>Google</i> |
| 2017-2019 | Postdoctoral Research Scientist Advisor: Dr. Timothy Brady | <i>University of California, San Diego</i> |
| 2017 | Ph.D. Psychological & Brain Sciences Advisor: Dr. Jonathan Flombaum | <i>Johns Hopkins University</i> |
| 2014 | M.A. Psychological & Brain Sciences Advisor: Dr. Jonathan Flombaum | <i>Johns Hopkins University</i> |
| 2010-2012 | Lab Manager Visual Cognition Lab (Dr. Steven Franconeri) Social Affective & Cultural Neuroscience Lab (Dr. Joan Chiao) | <i>Northwestern University</i> |
| 2010 | B.A. Psychology | <i>Vassar College</i> |

Research Interests

General: Memory, Perception, Learning, Cognition

Specific: Long-term memory; working memory; object recognition; global ensemble information; spatial relations and distortions; perception and action; visual strategies and human performance

Awards & Fellowships

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| 2020 | Cross-PA UX Research Award, Google Award to honor conducting innovative research impacting multiple product areas across Google. |
| 2018 | New Investigator Award, American Psychological Association Award to honor outstanding new investigators / early-career psychologists (Division: Experimental Psychology). |
| 2018 | Trainee Professional Development Award Society for Neuroscience award to neuroscientists demonstrating scientific merit and excellence in research to promote the advancement of career training. |
| 2017 | G. Stanley Hall Scholar's Award Johns Hopkins University award recognizing a graduate student who has demonstrated exceptional scholarly progress in dissertation research. |

- 2017 Walter L. Clark Teaching Award
Johns Hopkins University award recognizing a graduate student who has demonstrated an aptitude for instruction in the classroom, leveraging their knowledge and communication skills to enhance the undergraduate education experience.
- 2016-2017 Dean's Teaching Fellowship
Johns Hopkins University fellowship given to an outstanding graduate student to teach an advanced undergraduate course of their design.
- 2016 Walter L. Clark Service Award
Johns Hopkins University award recognizing a graduate student who has demonstrated an excellent record of community service.
- 2016 Graduate Representative Organization (GRO) Travel Award
Johns Hopkins University GRO award to assist in conference travel expenses.
- 2013-2015 Robert S. Waldrop & Dorothy L. Waldrop Graduate Fellowship
Johns Hopkins University fellowship given to exceptional graduate students to ease the financial burden of graduate work to allow students to focus on their research.
- 2013 Best Talk / Paper Award
At the 21st annual meeting on Object Perception, Attention, and Memory (OPAM) the award given to best talk / paper.

Publications

- Schurgin, M. W.**, Wixted, J. T., & Brady, T. F. (2020). Psychophysical Scaling Reveals a Unified Theory of Visual Memory Strength. *Nature: Human Behavior*.
- Miner, A. E., **Schurgin, M. W.**, & Brady, T. F. (2020). Is working memory inherently more 'precise' than long-term memory? Extremely high fidelity visual long-term memories for frequently encountered objects. *Journal of Experimental Psychology: Human Perception and Performance*.
- Schurgin, M. W.** & Brady, T. F. (2019). When "capacity" changes with set size: Ensemble representations support the detection of across-category changes in visual working memory. *Journal of Vision*, 19(5), 1-13.
- Schurgin, M. W.**, & Flombaum, J. I. (2018). Properties of Visual Episodic Memory Following Repeated Encounters with Objects. *Learning & Memory*, 25(7), 309-316.
- Schurgin, M. W.** (2018). Visual Memory, the Long and the Short of it: A Review of Visual Working Memory and Long-Term Memory. *Attention, Perception, & Psychophysics*, 80(5), 1035-1056.
- Schurgin, M. W.**, & Flombaum, J. I. (2018). Visual Working Memory is More Tolerant Than Visual Long-Term Memory. *Journal of Experimental Psychology: Human Perception and Performance*, 44(8), 1216-1227.
- Schurgin, M. W.**, & Flombaum, J. I. (2017). Exploiting Core Knowledge for Visual Object Recognition. *Journal of Experimental Psychology: General*, 146(3), 362-375.*
- *selected as the best JEP:General paper of the year by the editorial board
- Petre, B., Tetreault, P., Mathur, V. A., **Schurgin, M. W.**, Chiao, J. Y., Huang, L., & Apkarian, A. V. (2017). A central mechanism enhances pain perception of noxious thermal stimulus changes. *Scientific Reports*, 7(1), 3894.

- Schurgin, M. W.**, & Flombaum, J. I. (2015). Visual long-term memory has weaker fidelity than working memory. *Visual Cognition*, 23(7), 859-862.
- Schurgin, M. W.**, Nelson, J., Iida, S., Ohira, H., Chiao, J. Y., & Franconeri, S. L. (2014). Eye movements during emotional recognition in faces. *Journal of Vision*, 14(13):14, 1-16.
- Schurgin, M. W.**, & Flombaum, J. I. (2014). How undistorted spatial memories can produce distorted responses. *Attention, Perception, & Psychophysics*, 76(5), 1371-1380.
- Schurgin, M. W.**, Reagh, Z. M., Yassa, M. A., & Flombaum, J. I. (2013). Spatiotemporal Continuity Alters Long-Term Memory Representation of Objects. *Visual Cognition*, 21(6), 715-718.

Preprints / Under Review

- Babic, Z., **Schurgin, M. W.**, & Brady, T. F. (2019). Is short-term storage correlated with fluid intelligence? Strategy use explains the apparent relationship between 'number of remembered items' and fluid intelligence. *PsyArXiv*, 83ch4.
- Schurgin, M. W.**, Cunningham, C.A., Egeth, H.E., & Brady, T. F. (2019). Visual Long-term Memory Can Replace Active Maintenance in Visual Working Memory. *bioRxiv*, 381848.

Manuscripts in Preparation

- Schurgin, M. W.**, Lam, K., & Brady, T. F. (in prep). Isolating Visual Details in Episodic Memory.
- Schurgin, M. W.**, Williams, J., & Brady, T. F. (in prep). What's lost is not forgotten: shifting criteria explains commonly cited mechanisms of forgetting.
- Schurgin, M. W.**, Cunningham, C.A., & Flombaum, J. I. (in prep). Visual Search Abilities Dynamically Manage Performance Under Noisy Conditions.
- Mathur, V. A., **Schurgin, M. W.**, Saeed, S. W., Reber, P. J., Apkarian, A. V., Paice, J. A., Richeson, J., & Chiao, J. Y. (in prep). Race modulates neural sensitivity to own and other's pain.

Presentations

- Schurgin, M.W.** & Kim, H. (2020). Lessons from Google Health: Research infrastructure in sensitive settings. Talk presented at the 3rd annual meeting of the *UX Insight*, Breda, Netherlands.
- Chong, Y. H., **Schurgin, M.W.**, & Brady, T. F. (2020). The role of object files in visual working memory: Facilitating integration over longer timescales for moving objects. Poster presented at the 20th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Brady, T. F., Miner, A. E., Wixted, J. T., & **Schurgin, M. W.** (2019). Shared Constraints on the Precision of Visual Working vs. Visual Long-Term Memory. Talk to be presented at the 60th annual meeting of the *Psychonomic Society*, Montréal, Québec, Canada.
- Schurgin, M.W.**, Wixted, J. T., & Brady, T. F. (2019). Unambiguous evidence in favor of a signal detection model of visual working memory. Poster presented at the 19th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.

- Lam, K., **Schurgin, M.W.**, & Brady, T.F. (2019). The contributions of visual details vs semantic information to visual long-term memory. Talk presented at the 19th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Brady, T. F., **Schurgin, M.W.**, & Wixted, J. T. (2019). The importance of distinguishing between subjective and objective guessing in visual working memory. Poster presented at the 19th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Schurgin, M.W.** & Brady, T. F. (2018). Isolating Visual Details in Memory via Texforms. Poster presented at the 59th annual meeting of the *Psychonomic Society*, New Orleans, LA.
- Brady, T. F., **Schurgin, M.W.**, & Wixted, J. T. (2018). Psychological Scaling Reveals a Single Parameter Framework For Visual Working Memory. Talk presented at the 59th annual meeting of the *Psychonomic Society*, New Orleans, LA.
- Wixted, J. T., **Schurgin, M.W.**, & Brady, T. F. (2018). “Guessing” in Working Memory and Long-Term Memory. Talk presented at the 59th annual meeting of the *Psychonomic Society*, New Orleans, LA.
- Schurgin, M.W.**, Wixted, J. T., & Brady, T. F. (2018). Psychological Scaling Reveals a Single Parameter Framework For Visual Working Memory. Poster presented at the 26th annual meeting on *Object Perception, Attention and Memory (OPAM)*, New Orleans, LA.
- Schurgin, M. W.**, Cunningham, C. A., Egeth, H. E., & Brady, T. F. (2018). Episodic memory can substitute for active storage in visual working memory. Talk presented at the Nanosymposium on Working and Long-term Memory of the 48th annual meeting of the *Society for Neuroscience*, San Diego, CA.
- Schurgin, M.W.**, Wixted, J. T., & Brady, T. F. (2018). Psychological Scaling Reveals a Single Parameter Framework For Visual Working Memory. Poster presented at the 48th annual meeting of the *Society for Neuroscience*, San Diego, CA.
- Brady, T. F., **Schurgin, M. W.**, & Wixted, J. T. (2018). No distinction between capacity and resolution: A single memory strength parameter explains the shape of visual working memory response distributions. Poster presented at the 18th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Miner, A. E., **Schurgin, M. W.**, & Brady, T. F. (2018). Repetitions allows for long-term memories that are as precise as the best working memories. Poster presented at the 18th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Schurgin, M. W.**, Cunningham, C. A., Egeth, H. E., & Brady, T. F. (2018). Episodic Memory Replaces Active Maintenance in Working Memory When Available. Talk presented at the 18th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Brady, T. F., **Schurgin, M. W.**, & Wixted, J. T. (2018). Perceptual factors explain a huge number of results from visual working memory and visual long-term memory. Talk presented at the Symposium on Visual Perception and Memory of the 18th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Babic, Z., **Schurgin, M. W.**, & Brady, T. F. (2018). Relationships between Visual Working Memory and Fluid Intelligence. Poster presented at the 25th annual *Psychology Student Research Fair at California State University San Marcos (CSUSM)*, San Marcos, CA.

- Schurgin, M. W.**, Cunningham, C. A., Egeth, H. E., & Brady, T. F. (2017). The Effect of Episodic Memory on Active Storage in Visual Working Memory. Talk presented at the 25th annual meeting on *Object Perception, Attention and Memory (OPAM)*, Vancouver, BC.
- Flombaum, J. I., & **Schurgin, M. W.** (2016). Exploiting Core Knowledge for Visual Object Recognition. Talk presented at the 57th annual meeting of the *Psychonomic Society*, Boston, MA.
- Schurgin, M. W.**, & Flombaum, J. I. (2016). First Impressions in Visual Long-Term Memory. Poster presented at the 24th annual meeting on *Object Perception, Attention, and Memory (OPAM)*, Boston, MA.
- Schurgin, M. W.**, & Flombaum, J. I. (2016). Visual Working Memory Has Greater Tolerance Than Visual Long-Term Memory. Poster presented at the 16th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Schurgin, M. W.**, & Flombaum, J. I. (2015). Visual Long-Term Memory Has Weaker Fidelity Than Working Memory. Talk presented at the 23rd annual meeting on *Object Perception, Attention, and Memory (OPAM)*, Chicago, IL.
- Schurgin, M. W.**, & Flombaum, J. I. (2015). Invariant Object Recognition Enhanced by Object Persistence. Poster presented at the 15th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Schurgin, M. W.**, Reagh, Z. M., Yassa, M. A., & Flombaum, J. I. (2014). Building Tolerant Long-Term Memories Through (Object) Persistence. Poster presented at the 14th annual meeting of the *Vision Sciences Society*, St. Pete Beach, FL.
- Schurgin, M. W.**, Reagh, Z. M., Yassa, M. A., & Flombaum, J. I. (2013). Spatiotemporal Continuity Alters Long-Term Memory Representation of Objects. Talk presented at the 21st annual meeting on *Object Perception, Attention, and Memory (OPAM)*, Toronto, Canada.*
- *won award for best talk of the conference
- Schurgin, M. W.**, & Flombaum, J. I. (2013). Interactions between perception, fixation, and attention determine the endpoint of an action. Poster presented at the 13th annual meeting of the *Vision Sciences Society*, Naples, FL.
- Schurgin, M. W.**, Levinthal, B. R., List, A., Sherman, A., Suzuki, S., Grabowecky, M., & Franconeri, S. L. (May 2011). Infinite X: Illusions of perpetual increases in magnitude. Demonstration presented at the 11th Annual Meeting of the *Vision Sciences Society*, Naples, FL.

Invited Talks

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| December 2018 | Massachusetts Institute of Technology | Brain & Cognitive Sciences Committee |
| November 2018 | University of San Diego | Psychology Seminar |
| September 2018 | Harvard University | Vision Group Seminar |
| February 2018 | University of California, San Diego | Cognitive Brown Bag |
| January 2018 | University of California, Santa Cruz | Psychology Seminar |

Teaching Experience

Instructor

Fall 2018

Cognitive Foundations

University of California, San Diego

Instructor (Avg Instructor Rating: 98.1 / 100): This course was open to all undergraduate students. The course provided an introduction to cognitive psychology with a focus on foundational topics, such as understanding the relationship between the mind and the brain, thinking about cognition in computational terms, and the various kinds of methods used to study cognition.

Fall 2016

The Illusion of Perception

Johns Hopkins University

Instructor and Course Creator (Avg Course Rating = 5 / 5): This course was open to all undergraduate and graduate students. In the course, students gained a comprehensive understanding of the ways we perceive (or fail to perceive) things in the real world by studying examples in perception, memory and awareness. Students read both empirical and theoretical writing on these topics and participated in class discussions exploring their potential ramifications: if the world isn't what we perceive, what are the implications for our society, or for ourselves?

Fall 2014

Research Methods in Experimental Psychology

Johns Hopkins University

Instructor (Avg Instructor Rating = 4.6 / 5): This course was open to upperclassmen Psychology and Cognitive Science undergraduate students. The course gave an overview of research methods used in psychology, experimental designs, interpreting results in psychology, and research ethics. Each student completed an individual research project on a topic of his/her choosing as part of the course training. The class was taught interactively through lectures and labs.

Guest Instructor

Spring 2019

Juniors Honors Research Seminar (Undergrad Course)

University of California, San Diego

Spring 2018

General Psychology: Biological Foundations
(Undergrad Course: Avg Guest Instructor Rating = 4.6 / 5)

University of California, San Diego

Spring 2018

Visual Cognition (Undergrad Course)

University of California, San Diego

Teaching Assistant

Fall 2015

Advanced Statistical Methods (Graduate Course)

Johns Hopkins University

Spring 2014

Intro to Cognitive Psychology (Undergrad Course)

Johns Hopkins University

Fall 2013

Mind, Brain & Experience (Undergrad Course)

Johns Hopkins University

Spring 2013

Human Sexual Orientation (Undergrad Course)

Johns Hopkins University

Certifications

2017

Johns Hopkins University Teaching Institute

Attended teaching institute program to develop and enhance university-level classroom teaching skills. The curriculum included examining the benefits of active learning, ongoing assessment, responsiveness to diversity, and examining a variety of teaching practices and principles (backward design, formative / summative assessments, etc).

2016

NIH ERP Boot Camp

Received methodological training scholarship to attend an NIH-funded 10-day workshop at UC-Davis on how to best design, implement, and analyze ERP experiments using the latest methods and technology.

Community Engagement

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| 2020-present | <p>Mentor, Coffee Hours with Mark</p> <p>I offer weekly 1-hour sessions to provide career advice to those in UX or who are considering getting into user experience research. I provide mentorship on areas such as research methods, transitioning from academia, working in tech, resume review, interviewing, and communication strategies. Sign-ups are available at: https://calendly.com/maschurgin/60min. If you are an underrepresented minority (URM) and are unable to find an open time, please email me directly to set up a session.</p> |
| 2017-2019 | <p>Mentor, Summer Training Academy for Research Success (STARS) Program</p> <p>Mentored multiple STARS (non-UCSD) students in the Vision and Memory lab over the course of the summer. The STARS program is a summer research academy at UCSD providing students with experience with behavioral methods, computational tools and other necessities for pursuing Ph.D.-level research. Through community-college-based outreach, the program includes underrepresented groups both locally and nationally.</p> |
| 2016-2017 | <p>Creator & Director, Psychological & Brain Sciences High School Engagement Program</p> <p>I founded and was director of the Psychological & Brain Sciences High School Engagement Program at Johns Hopkins University. In the program Baltimore City public high school students come on-campus to visit the department of Psychological & Brain Sciences. The visit takes course over an entire day, including lectures from faculty, classroom observations, graduate student talks/panels, and lab tours.</p> |
| 2013-2017 | <p>Director & Speaker, Brain Awareness Week at Baltimore Polytechnic Institute</p> <p>I was director for the Brain Awareness Week event at Baltimore Polytechnic Institute, a public high school with a focus on Science, Technology, Engineering and Math (STEM) serving a large minority population. The purpose of this week is to give students lectures on general themes in neuroscience and possible career paths in science.</p> |
| 2015-2016 | <p>Mentor, Women in Science & Engineering (WISE) Student Outreach Program</p> <p>Mentored two Baltimore high school students from the Garrison Forest School in the Visual Thinking Lab over the course of the school year. Guided the students in experiment development, conducting literature reviews, and academic writing.</p> |
| 2016 | <p>Invited Speaker, Sandy Spring Friends School</p> <p>Lectured to elementary, middle and high school students about visual illusions and psychology at the annual school science fair (serving the greater DC area).</p> |
| 2015 | <p>Invited Speaker, Patterson High School Baltimore City</p> <p>Lectured to high school students about psychology and neuroscience in a Baltimore City public high school. Mentored students and discussed what is required to pursue a degree in a STEM field.</p> |
| 2012 | <p>Organizer, Chicago Brain Week Talk Series</p> <p>Assisted in the organization of a series of community talks given by prominent Psychologists and Neuroscientists in the Chicago area.</p> |
| 2011-2012 | <p>Mentor, Student Inquiry and Research Program</p> <p>Mentored two high school students from the Illinois Mathematics and Science Academy (IMSA) in the Social Affective and Cultural Neuroscience lab over the course of a year. Guided each student on independent projects including experiment design, data collection, analysis, and developing a poster presentation for an academic conference.</p> |

Academic Service

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| 2014-2017 | Organizer, Psychological & Brain Sciences Event Coordination |
| 2012-2016 | Representative, Psychological & Brain Sciences Graduate Steering Committee |
| 2013-2015 | Organizer & Leader, Psychological & Brain Sciences Graduate Recruitment |
| 2015 | Reviewer, Association for Psychological Science Student Research Award |
| 2012 | Organizer, Cultural Psychology Preconference at the Society for Personality & Social Psychology (SPSP) |
| 2010 | Organizer, Social & Affective Neuroscience Society (SANS) Conference |

Ad-hoc review for Journals:

Attention, Perception, & Psychophysics

Cognition

Consciousness and Cognition

Experimental Brain Research

Frontiers in Psychology

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Learning, Memory, and Cognition

Journal of Experimental Psychology: Human Perception and Performance

Journal of General Psychology

Memory & Cognition

Neuroscience and Biobehavioral Reviews

PLOS One

Psychological Reports

Psychological Review

Psychonomic Bulletin & Review

Scientific Reports

Quarterly Journal of Experimental Psychology

Visual Cognition

Vision Research

Advising

Graduate Researchers

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| Jamal Williams (University of California, San Diego)* | 2018-2019 |
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**awarded NSF graduate research fellowship*

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| Isabella Destefano (University of California, San Diego) | 2018-2019 |
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| Hayden Schill (University of California, San Diego) | 2018-2019 |
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| Anna Shafer-Skelton (University of California, San Diego) | 2017-2019 |
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Undergraduate Researchers

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| Lulu Ricketts (University of California, San Diego) | 2018-2019 |
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| Yonghoon Chung (University of California, San Diego)** | 2018-2019 |
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**Ph.D. candidate at Dartmouth College*

**awarded 2019 Norman Henry Anderson Excellence in Research award by UCSD*

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| Brittany Hawkins-Carter (University of California, San Diego)** <i>*Ph.D. candidate at Howard University</i> <i>*awarded 2019 Norman Henry Anderson Excellence in Research award by UCSD</i> | 2018-2019 |
| Sherry Wang (University of California, San Diego)* <i>*Ph.D. candidate at Boston University</i> | 2018-2019 |
| Zeljana Babic (University of California, San Diego)** <i>*awarded 2018 Norman Henry Anderson Excellence in Research award by UCSD</i> <i>*awarded 2018 Undergraduate Research Fellowship by UCSD</i> | 2017-2019 |
| Robert Walter (University of California, San Diego)* <i>*Ph.D. candidate at Yale University</i> | 2017-2019 |
| Annalise Miner (University of California, San Diego) | 2017-2019 |
| Kelvin Lam (University of California, San Diego)** <i>*awarded 2018 URS Chancellor's Research Scholarship by UCSD</i> <i>*Ph.D. candidate at University of California, Santa Barbara</i> | 2017-2019 |
| Jamal Williams (University of California, San Diego)*** <i>*Ph.D. candidate at University of California, San Diego</i> <i>*awarded 2018 Norman Henry Anderson Distinguished Undergraduate Scholar award by UCSD</i> <i>*awarded 2017 Ronald E. McNair Scholarship by Federal TRIO Program</i> | 2017-2018 |
| Luis Alvarez (Mesa Community College) | 2018 |
| Audrey Ellis (Wellesley College) | 2018 |
| Trenton Brooks (San Diego City College) | 2017 |
| Celene Gonzalez (California State University, San Bernardino) | 2017 |
| Faith Shank (Loyola University) | 2016-2017 |
| Alana DiSabatino (Johns Hopkins University)* <i>*awarded 2017 Stanley Hall Prize by JHU for outstanding research excellence</i> | 2015-2017 |
| Annapurna Vadaparty (Johns Hopkins University) | 2015-2017 |
| Cera Hassinan (Johns Hopkins University) | 2015-2017 |
| Sinan Akosman (Johns Hopkins University) | 2015-2017 |
| Saman Baban (Johns Hopkins University) | 2015-2016 |
| Victor Kang (Johns Hopkins University) | 2015 |
| Patricia Kingkeo (Johns Hopkins University) | 2013-2015 |
| Erica Lee (Johns Hopkins University) | 2013-2014 |
| Hannah Cowley (Johns Hopkins University) | 2014 |
| Gustavo Beruman (Universidad de Guadalajara) | 2013 |
| Kaan Zaimoglu (Johns Hopkins University) | 2012-2013 |
| <u>High School Researchers</u> | |
| Channing Capacchione (GFS / Hopkins) | 2015-2016 |
| Ruth Tekeste (GFS / Hopkins) | 2015-2016 |
| Jennifer Ren (IMSA / Northwestern) | 2011-2012 |
| Victoria Etherton (IMSA / Northwestern) | 2011-2012 |
| Eva Meyer (IMSA / Northwestern) | 2011-2012 |
| Ruby Morales (ETHS / Northwestern) | 2011 |

Professional Memberships

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| 2018-2020 | Society for Neuroscience (SfN) |
| 2018-2020 | American Psychological Association (APA) |
| 2017-2020 | Association for Psychological Science (APS) |
| 2015-2020 | Psychonomic Society |
| 2014-2020 | Spatial Network |
| 2011-2020 | Vision Sciences Society (VSS) |
| 2010-2012 | Spatial Intelligence Learning Center (SILC) |
| 2011-2012 | Cognitive Neuroscience Society (CNS) |