

# HAYDEN MARIE SCHILL

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## Education

Rhodes College | Memphis, TN  
Bachelor of Science, *cum laude*; May 2016  
Major: *Neuroscience*  
Minor: *Art History*

*International Education: European Studies*  
*Bonner Scholar* | 2012 - 2016

University of California, San Diego | La Jolla, CA  
Doctoral Candidate, Department of Psychology  
Expected graduation: May 2023

## Employment and Research

University of California, San Diego | La Jolla, California  
Graduate Student, Department of Psychology: *Vision and Working Memory Lab* (August 2018 - 2023)  
ADVISOR: Dr. Timothy Brady, Professor of Psychology, University of California, San Diego

Harvard Medical School and Brigham & Women's Hospital | Boston, MA  
Full-time Research Assistant/Lab Manager: *Visual Attention Lab* (June 2016 – July 2018)  
ADVISOR: Dr. Jeremy M. Wolfe, Professor of Radiology and Ophthalmology, Harvard Medical School

Rhodes College | Memphis, TN  
Student Researcher: *Visual Cognition Lab* (January 2015 – May 2016)  
ADVISOR: Dr. Jason M. Haberman, Department of Psychology & Neuroscience, Rhodes College

## Publications

Wolfe, J. Alaoui Soce, A., & Schill, H. (2017) How did I miss that? Using mixed hybrid visual search as a 'model system' for incidental finding errors in medicine. *Cognitive Research: Principles and Implications*, 2:35.

Schill, H., Wick., F., Cain, M., Wolfe, J.M. "Hybrid foraging meets navigation: searching in simulated urban cityscapes." In Prep.

Schill, H.M., Cain, M.S., Josephs, E.L. *et al.* Axis of rotation as a basic feature in visual search. *Atten Percept Psychophys* **82**, 31–43 (2020). <https://doi.org/10.3758/s13414-019-01834-0>

Timothy F. Brady, Viola S. Störmer, Anna Shafer-Skelton, Jamal R. Williams, Angus F. Chapman, Hayden M. Schill, Scaling up visual attention and visual working memory to the real world, *Psychology of Learning and Motivation*, Academic Press, 2019, ISSN 0079-7421, <https://doi.org/10.1016/bs.plm.2019.03.001>.

Schill, H.M., Wolfe, J.M., and Brady, T.F. (2019). Expert radiologists have improved memory performance for images with focal abnormalities. *PsyArXiv. Preprint*. <https://doi.org/10.31234/osf.io/b4zv3>

## Presented Talks

- Hayden Schill, Anne-Marie Culpan, Karla Evans, Jeremy Wolfe. "Detecting the "gist" of breast cancer in mammograms." Medical Image Perception Society. Houston, TX, July 2017.
- Schill, H., Wolfe, J. & Brady, T. F (2019). Memory capacity for normal vs. abnormal mammograms. Talk to be presented at the Annual Meeting of the Medical Image Perception Society, Salt Lake City, UT.

- Hayden Schill, Anne-Marie Culpan, Jeremy Wolfe, Karla Evans. “Detecting the “gist” of breast cancer in mammograms three years before the cancer appears.” Vision Sciences Society. St. Petersburg, FL, May 2017. Abstract published in *Journal of Vision* 2017;17(10):927. doi: 10.1167/17.10.927
- Hayden Schill, Farahnaz Wick, Matthew Cain, Jeremy Wolfe. “Hybrid foraging meets navigation: Can augmented reality improve performance in real world search tasks?” Presented at Vision Sciences Society. St. Petersburg, FL, May 2018. Abstract published in *Journal of Vision* 2018;18(10):6. doi: 10.1167/18.10.6.

### Presented Posters

- Hayden Schill, Jason Haberman. “Attending to multiple ensembles across visual domains imposes no cost relative to multiple ensembles within a single visual domain.” Vision Sciences Society. St. Petersburg, FL, May 2016. Abstract published in *Journal of Vision* 2016;16(23):1039. doi: 10.1167/16.12.1039
- Hayden Schill, Iris Wiegand, Caroline Seidel, Jeremy Wolfe. “Hybrid Foraging in Healthy Aging.” Society for Neuroscience. San Diego, CA, November 2018.
- Schill, H., Wolfe, J. & Brady, T. F (2019). Memory capacity meets expertise: increased capacity for abnormal images in expert radiologists. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Schill, H., Wolfe, J. & Brady, T. F (2019). The crowd-within effect in expert radiologists: independent ratings of the same case lead to better performance in mammography diagnosis. To be presented at the Radiological Society of North America, Chicago, IL.

### Programming and Lab Management Experience

- Trained in MATLAB, R, HTML/CSS/Javascript/JQuery; data collection, management, & analysis
- The outreach and coordination of unique participant populations (i.e. older adults and radiologists)
- Collaboration with professionals in both academia and medicine

### Teaching & Mentorship Experience

Introduction to Psychology. Teaching Assistant (2019, 2020).

Research Sciences Institute. MIT, Boston, MA. Mentor to two high-achieving high school students in vision science.

Project Success. Harvard Medical School, Boston, MA. Mentored students from minority groups in vision science.

Celeste. Boston University, Boston, MA. Mentored visiting college student on temporal perceptions of search tasks.

### Professional Affiliations

- Vision Sciences Society | **Member** (2015 – present)
- Medical Image Perception Society | **Member** (2016-present)
- Association for Psychological Science | **Student Affiliate** (2016-present)
- Radiological Society for North America | **Member** (2016-present)
- Boston Athenaeum – Historical Society and Library | **Member** (2016 – present)

### Awards and Scholarships

- *National Science Foundation, Graduate Research Fellowship Award Recipient.* (2019-2023).
- *Medical Image Perception Society Student Travel Grant.* (2019). Covered all expenses for conference travel.
- *Anderson Travel & Research Grant* (2020). Psychology department funding to present at a conference.
- *Rhodes Healthcare & Wellness Award* (2014): For excellence & leadership in promoting engagement in the field
- *Irene S. Wischer Education Scholarship* (2012-2016): For exceptional students with financial need; \$11,000/yr
- *Bonner Program Recipient* (2012-2016): Four-year prestigious leadership and service scholarship; over \$40,000
- *Rhodes/Evergreen Fellowship* (2015-2016): For community engagement around issues of social & racial injustice
- *Rhodes Travel Fund* (Summer 2016): Funding to present at the Vision Sciences Society annual meeting in Florida
- *Rhodes Summer Neuroscience Fellowship* (Summer 2015): To conduct research in cognitive neuroscience full-time