

Paul S. Scotti

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(last updated 04/04/20)

EDUCATION

- Ph.D. (Cognitive Psychology)**, The Ohio State University 2017 – Present
- B.A. (Psychology)**, The George Washington University 2013 – 2017
- Distinguished/Honors scholar, magna cum laude

RESEARCH EXPERIENCE

VISION AND COGNITIVE NEUROSCIENCE LAB 2017 – Present

COGNITIVE CONTROL LAB

- PhD student** at The Ohio State University
Advisors: Dr. Julie Golomb & Dr. Andrew Leber
- Investigating visual memory distortions using psychophysics, computational modeling, and fMRI

GW ATTENTION AND COGNITION LAB 2014 – 2017

- Undergraduate researcher** at The George Washington University
Advisor: Dr. Sarah Shomstein
- Investigated object-based attentional selection in real-world objects

GW VISUAL COGNITION LAB 2016 – 2017

- Undergraduate researcher** at The George Washington University
Advisor: Dr. Stephen Mitroff
- Investigated priming in visual search using mobile app “big data”

PUBLICATIONS

- Scotti, P. S.**, Kulkarni, A., Mazor, M., Klapwijk, E., Yarkoni, T., Huth, A. G. (2020). EduCortex: browser-based 3D brain visualization of fMRI meta-analysis maps. *Journal of Open Source Education*, 3(26), 75, <https://doi.org/10.21105/jose.00075>
- Scotti, P. S.**, Janakiefski, L., & Maxcey, A. M. (2020). Recognition-induced forgetting of schematically related pictures. *Psychonomic Bulletin & Review* 27, 357–365 (2020). <https://doi.org/10.3758/s13423-019-01693-8>
- Collegio, A., Nah, J., **Scotti, P. S.**, & Shomstein, S. (2019). Attention scales according to inferred real-world object size. *Nature Human Behavior*, 3(1), 40-47. <https://doi.org/10.1038/s41562-018-0485-2>

Under Review / Ongoing Revisions / Submitted:

- Scotti, P. S.**, Collegio, A., & Shomstein, S. (submitted). The relative contribution of high-level (Semantic) and low-level (Boundary) Information to object-based attentional guidance.

In Prep:

- Scotti, P. S.,** Kulkarni, A., Mazor, M., Klapwijk, E., Yarkoni, T., Huth, A. G. (in preparation). Interactive 3d brain helps you learn how the brain is organized.
- Scotti, P. S.,** Hong, Y., Golomb, J. D., & Leber, A., B. (in preparation). Statistical regularities during object encoding induce swaps in long-term memory.
- Scotti, P. S.,** Hong, Y., Leber, A., B., & Golomb, J. D. (in preparation). Active maintenance of visual working memory items underlies repulsion bias.
- Scotti, P. S.,** Malcolm, G.L., Peterson, M., & Shomstein, S. (in preparation). Reality vs. Simplicity: The effects of real-world objects on attentional selection.

TALK PRESENTATIONS

- Scotti, P. S.,** Hong, Y., Leber, A., B., & Golomb, J. D. (2019, November). Competition between similar visual working memory items underlies repulsion effects. *Object Perception, Attention, and Memory (OPAM)*, Montreal, Quebec.
- Collegio, A., Nah, J., **Scotti, P. S.,** Shomstein, S. (2017, November). Real-world object size affects attentional allocation. *Object Perception, Attention, and Memory (OPAM)*, Vancouver, BC.

POSTER PRESENTATIONS

- Scotti, P. S.,** Kulkarni, A., Mazor, M., Klapwijk, E., Yarkoni, T., Huth, A. G. (2019, Dec). EduCortex: browser-based 3D brain visualization of fMRI meta-analysis maps. **Awarded best poster**, *Center for Cognitive and Behavioral Brain Imaging Annual Research Days*, Columbus, OH.
- Scotti, P. S.,** Janakiefski, L., & Maxcey, A. M. (2019, November). Recognition-Induced Forgetting Does Not Operate Over Superordinate Categories. *Psychonomic Society*, Montreal, Quebec.
- Scotti, P. S.,** Hong, Y., Leber, A., B., & Golomb, J. D. (2019, October). Competition Between Similar Visual Working Memory Items Produces Repulsion Effects. *Society for Neuroscience*, Chicago, IL.
- Scotti, P. S.,** Hong, Y., Golomb, J. D., Leber, A., B. (2019, May). Relational interactions between visual memory representations increase with maintenance duration. *Vision Sciences Society*, St. Pete Beach, FL.
- Babu, A., **Scotti, P. S.,** Golomb, J. D. (2019, May). The dominance of spatial information in location judgments: A persistent congruency bias even amidst conflicting statistical regularities. *Vision Sciences Society*, St. Pete Beach, FL.
- Janakiefski, L., Smerdell, M., **Scotti, P. S.,** Maxcey, A. (2019, March). Does recognition-induced forgetting operate over temporally-grouped objects? *CogFest*, Columbus, OH.
- Scotti, P. S.,** Hong, Y., Golomb, J. D., Leber, A., B. (2018, November). Statistical regularities during object encoding distort long-term memory. **Awarded best poster (\$200)**, *Object Perception, Attention, and Memory (OPAM)*, New Orleans, LA.
- Scotti, P. S.,** Hong, Y., Golomb, J. D., Leber, A., B. (2018, September). Statistical regularities during object encoding distort long-term memory. *Center for Cognitive and Brain Sciences Fall Retreat*, Mt. Sterling, OH.
- Scotti, P. S.,** Hong, Y., Golomb, J. D., Leber, A., B. (2018, May). Statistical regularities during object encoding distort long-term memory. *Vision Sciences Society*, St. Pete Beach, FL.
- Adamo, S., Nah, J., Collegio, A., **Scotti, P. S.,** Shomstein, S. (2018, May). The flux capacitor account: A new theoretical account of multiple target visual search errors. *Vision Sciences Society*, St. Pete Beach, FL.
- Scotti, P. S.,** Collegio, A., & Shomstein, S. (2017, November). Task-irrelevant object category guides attentional allocation. *Object Perception, Attention, and Memory (OPAM)*, Vancouver, BC.
- Scotti, P. S.,** Adamo, S., Mitroff, S., Shomstein, S. (2017, May). Repetition priming preferentially benefits

infrequent targets. *Vision Sciences Society*, St. Pete Beach, FL.

Adamo, S., Nah, J., Collegio, A., **Scotti, P. S.**, Shomstein, S. (2017, May). Does orientation matter? Same or differently oriented targets in a multiple target search. *Vision Sciences Society*, St. Pete Beach, FL.

Collegio, A., Nah, J., **Scotti, P. S.**, Shomstein, S. (2017, May). Real-world object size affects attentional allocation. *Vision Sciences Society*, St. Pete Beach, FL.

Scotti, P. S., Adamo, S., Mitroff, S., Shomstein, S. (2017, April). Repetition priming preferentially benefits infrequent targets. **1st place Psychology poster**, *GW Research Days event*, Washington, D.C.

Scotti, P. S., Malcolm, G.L., Peterson, M., & Shomstein, S. (2016, November). Reality vs. Simplicity: The effects of real-world objects on attentional selection. *Object Perception, Attention, and Memory (OPAM)*, Boston, MA.

Scotti, P. S., Malcolm, G.L., Peterson, M., & Shomstein, S. (2016, May). Reality vs. Simplicity: The effects of real-world objects on attentional selection. *Vision Sciences Society*, St. Pete Beach, FL.

LEADERSHIP ACTIVITIES / PROFESSIONAL DEVELOPMENT / TEACHING

OnNeuro (www.OnNeuro.com), *Founder* 2017 – Present

- Head of a live communication platform across researchers and the public, allowing those who may not have easy access to scientific discussions to participate in the fields of psychology and neuroscience

Center for Cognitive and Behavioral Brain Imaging Student Org, *Technical Director* 2017 – Present

- Leadership role where I organize interdisciplinary workshops and guest speaker presentations related to neuroimaging. Role also includes A/V support in cooperation with OnNeuro

CCBBI Annual Research Day, *Student Organizer* Fall 2020

- Set up talk presentations, invited photographers, worked with A/V team

NeuroHackademy Summer 2020

- Produced EduCortex, an educational brain viewer: <http://paulscotti.com/educortex>

Guest Lecturer Fall 2019

- Introduction to Psychology (PSYCH 1001)

Course Assistant

- Introduction to Social Psychology (PSYCH 3325) Autumn 2018
- Cognitive Psychology Laboratory (PSYCH 4510) 2018 – 2019
- Sensation and Perception (PSYCH 3310) Spring 2019

Center for Cognitive and Brain Sciences Undergraduate Summer Institute (CUSI) Summer 2018/2019

- Gave lectures on lab organization and pre-registration.

Career Development Grant Judge (Council of Graduate Students) Spring 2018

York University Centre for Vision Research Summer School (Toronto, ON) Summer 2016

Cold Spring Harbor Laboratory Summer Course, “DNA Science” (Long Island, NY) Summer 2012

MENTORSHIP

- Anisha Babu (OSU; Golomb lab, undergraduate research assistant; Spring 2018 – present)
- Molly McKinney (OSU; Leber lab, undergraduate research assistant; Spring 2018 – Spring 2019)

MEMBERSHIPS

Psychonomic Society, Society for Neuroscience, Vision Sciences Society, Psi Chi Honor Society, OSU Center for Cognitive and Behavioral Brain Imaging Student Group, OSU Center for Cognitive and Brain Sciences

SCHOLARSHIPS, FELLOWSHIPS, & AWARDS

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|---|-----------|
| • NSF Graduate Research Fellowship (\$102,000) | 2019-2022 |
| • CCBBI Student Neuroimaging Research Award (\$3000) | 2018 |
| • OSU University Fellowship (\$26,316) | 2017 |
| • GW CCAS Distinguished Scholar | 2017 |
| • Luther Rice Undergraduate Research Fellowship (\$5000) | 2016 |
| • Sigelman Undergraduate Research Enhancement Award (\$500) | 2016 |
| • GW Presidential Academic Scholarship Recipient | 2013 |

QUALIFICATIONS AND SKILLS

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| • MATLAB (inc. Psychtoolbox) | • Eye-tracking (EyeLink 1000 Plus) |
| • Python | • JupyterLab |
| • R (inc. ggplot2) | • JASP / IBM SPSS / SAS |
| • JAGS (using C++) | • Overleaf (LaTeX using Markdown) |
| • HTML / CSS / JavaScript | • GitHub |
| • SPM12 / FreeSurfer / FmriPrep | • Most Microsoft & Adobe software |