

Paul S. Scotti

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(last updated 04/30/19)

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

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.

Under Review:

- Scotti, P. S.**, Janakiefski, L., Smerdell, M., & Maxcey, A. M. (under review). Recognition-Induced Forgetting Does Not Operate Over Superordinate Categories.
- Scotti, P. S.**, Hong, Y., Golomb, J. D., & Leber, A., B. (under review). Statistical Regularities During Object Encoding Induce Swaps in Long-Term Memory

In Prep:

- Scotti, P. S.**, Hong, Y., Leber, A., B., & Golomb, J. D. (in preparation). Competition Between Similar Visual Working Memory Items Produces Repulsion Effects.

- Scotti, P. S.,** Malcolm, G.L., Peterson, M., & Shomstein, S. (in preparation). Reality vs. Simplicity: The Effects of Real-World Objects on Attentional Selection.
- Scotti, P. S.,** Collegio, A., & Shomstein, S. (in preparation). Task-Irrelevant Object Category Information Guides Attentional Allocation.

POSTER PRESENTATIONS

- Scotti, P. S.,** Hong, Y., Leber, A., B., & Golomb, J. D. (2019, October). Competition Between Similar Visual Working Memory Items Produces Repulsion Effects. Poster to be presented at 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. Poster to be presented at 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. Poster to be presented at 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? Poster presentation at 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)**, presented at Object Perception, Attention, and Memory (OPAM) meeting, 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. Poster presentation at the 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. Poster presentation at 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. Poster presentation at Vision Sciences Society, St. Pete Beach, FL.
- Scotti, P. S.,** Collegio, A., & Shomstein, S. (2017, November). Task-irrelevant Object Category Guides Attentional Allocation. Poster presented at Object Perception, Attention, and Memory (OPAM) meeting, Vancouver, BC.
- Collegio, A., Nah, J., **Scotti, P. S.,** Shomstein, S. (2017, November). Real-World Object Size Affects Attentional Allocation. Talk presented at Object Perception, Attention, and Memory (OPAM) meeting, Vancouver, BC.
- Scotti, P. S.,** Adamo, S., Mitroff, S., Shomstein, S. (2017, May). Repetition Priming Preferentially Benefits Infrequent Targets. Poster presentation at 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. Poster presentation at 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. Poster presentation at 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** presented at the annual 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. Poster presented at Object Perception, Attention, and Memory (OPAM) meeting, 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. Poster presentation at Vision Sciences Society, St. Pete Beach, FL.

LEADERSHIP ACTIVITIES / PROFESSIONAL DEVELOPMENT / TEACHING

OnNeuro (www.OnNeuro.com), <i>Founder</i>	2017 – Present
<ul style="list-style-type: none">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, <i>Technical Director</i>	2017 – Present
<ul style="list-style-type: none">Leadership role in which I help organize interdisciplinary workshops and guest speaker presentations related to neuroimaging. Role also includes A/V support in cooperation with OnNeuro.	
Guest Lecturer	Fall 2019
<ul style="list-style-type: none">Introduction to Psychology (PSYCH 1001)	
Course Assistant	2018 – 2019
<ul style="list-style-type: none">Introduction to Social Psychology (PSYCH 3325)Cognitive Psychology Laboratory (PSYCH 4510)	
Center for Cognitive and Brain Sciences Undergraduate Summer Institute (CUSI)	Summer 2018
<ul style="list-style-type: none">Gave lecture on organization in scientific research.	
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

NSF Graduate Research Fellowship (\$102,000)	2019-2022
CCBBI Student Neuroimaging Research Award (\$3000)	2017
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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| <ul style="list-style-type: none">MATLAB (inc. Psychtoolbox)PythonR (inc. ggplot2) | <ul style="list-style-type: none">Eye-tracking (EyeLink 1000 Plus)JupyterLabJASP / IBM SPSS / SAS |
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- JAGS (using C++)
- HTML / CSS / JavaScript
- SPM12 / FreeSurfer / FmriPrep

- Overleaf
- GitHub
- Most Microsoft & Adobe software