

# Paul S. Scotti

1210 Chambers Rd., Apt. 326b, Columbus OH, 43212  
Email: scottibrain@gmail.com | Cell: (718) 309-1516  
www.PaulScotti.com, www.OnNeuro.com  
(last updated 11/20/19)

## EDUCATION

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- 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

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### 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

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- Scotti, P. S.**, Janakiefski, L., & Maxcey, A. M. (in press). Recognition-induced forgetting of schematically related pictures. *Psychonomic Bulletin & Review*.
- 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 / Ongoing Revisions / Submitted:*

**Scotti, P. S.**, Hong, Y., Golomb, J. D., & Leber, A., B. (under review). Statistical Regularities During Object Encoding Induce Swaps in Long-Term Memory.

**Scotti, P. S.**, Kulkarni, A., Mazor, M., Klapwijk, E., Yarkoni, T., Huth, A. G. (submitted). EduCortex: browser-based 3D brain visualization of fMRI meta-analysis maps.

*In Prep:*

- 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.
- Scotti, P. S.,** Collegio, A., & Shomstein, S. (in preparation). Task-irrelevant object category information guides attentional allocation.

## TALK PRESENTATIONS

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- 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

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- 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**

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OnNeuro (www.OnNeuro.com), <i>Founder</i>	2017 – Present
<ul style="list-style-type: none"><li>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.</li></ul>	
Center for Cognitive and Behavioral Brain Imaging Student Org, <i>Technical Director</i>	2017 – Present
<ul style="list-style-type: none"><li>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.</li></ul>	
NeuroHackademy	Summer 2020
<ul style="list-style-type: none"><li>Produced EduCortex, an educational brain viewer: <a href="http://paulscotti.com/educortex">http://paulscotti.com/educortex</a></li></ul>	
Guest Lecturer	Fall 2019
<ul style="list-style-type: none"><li>Introduction to Psychology (PSYCH 1001)</li></ul>	
Course Assistant	
<ul style="list-style-type: none"><li>Introduction to Social Psychology (PSYCH 3325)</li><li>Cognitive Psychology Laboratory (PSYCH 4510)</li><li>Sensation and Perception (PSYCH 3310)</li></ul>	
Center for Cognitive and Brain Sciences Undergraduate Summer Institute (CUSI)	Summer 2018/2019
<ul style="list-style-type: none"><li>Gave lectures on lab organization and pre-registration.</li></ul>	
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**

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

## **MEMBERSHIPS**

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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)	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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- MATLAB (inc. Psychtoolbox)
- Python
- R (inc. ggplot2)
- JAGS (using C++)
- HTML / CSS / JavaScript
- SPM12 / FreeSurfer / FmriPrep

- Eye-tracking (EyeLink 1000 Plus)
- JupyterLab
- JASP / IBM SPSS / SAS
- Overleaf (LaTeX using Markdown)
- GitHub
- Most Microsoft & Adobe software