Eshed Margalit

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Education

Stanford University | 2016 - Present
Neurosciences Ph.D. Program

University of Southern California | 2012 - 2016
B.S. with Honors in **Computational Neuroscience**
Minor in **Computer Science**
Cumulative Major and Minor GPA: **4.0**

Research

USC Image Understanding Lab | 2014 – 2016
Focus on computational modeling, psychophysical testing, and neuroimaging research on human visual perception, developmental prosopagnosia, and object recognition
PI: Dr. Irving Biederman

USC Emotion and Cognition Lab | 2013 – 2014
Focus on the interaction between aging and the locus-coeruleus norepinephrine system, models of attention, and neural correlates of biases in attention
PI: Dr. Mara Mather

Publications

Published

1. Clewett, D., Lee, T.H., Greening, S., Ponzio, A., **Margalit, E.**, & Mather, M. (2016). Neuromelanin marks the spot: Identifying a locus coeruleus biomarker of cognitive reserve in healthy aging. *Neurobiology of Aging, 37, 117-126*.

2. **Margalit, E.**, Shah, M.P., Tjan, B.S., Biederman, I., Keller, B., & Brenner, R. The lateral occipital complex shows no net response to object familiarity. *Journal of Vision.* In press.

3. **Margalit, E.**, Herald, S.B., Yue, X., von der Malsburg, C., & Biederman, I. An applet for the Gabor Scaling of the Differences Between Complex Stimuli. *Attention, Perception, and Psychophysics*. (In press).

In Revision or Submitted

Work in Preparation

1. **Margalit, E.**, & Biederman, I. Impaired discrimination of complex metrically-varying stimuli in developmental prosopagnosia.

2. **Margalit, E.**, Irawan, I., Herald, S.B., & Biederman, I. Addition of L-vertices to line drawings selectively impairs object naming speed.

3. Clewett, D., Nielsen, S., **Margalit, E.**, Huang, R., & Mather, M. Norepinephrine amplifies motivated memory biases during consolidation.

4. **Margalit, E.**, Tjan, B.S., & Biederman, I. LOC sensitivity to shape and relations between parts of 3D volumes.

Conference Presentations and Posters

1. Biederman, I., Herald, S. B., Xu, X., Amir, O., Shilowich B. E., & **Margalit, E.** (2015). Phonagnosia, a Voice Homologue to Prosopagnosia. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, FL. May.

2. Clewett, D., Lee, T.H., Greening, S. G., Ponzio, A., **Margalit, E.**, & Mather M. (2015). Neuromelanin Marks the Spot: A Locus Coeruleus Substrate of Cognitive Reserve in Healthy Aging. USC Neuroscience Graduate Student Symposium, Los Angeles, CA. Jan.

3. Biederman, I., **Margalit, E.**, Tjan B.S., & Shah, M.P. (2016). What is actually affected by the scrambling of objects when localizing LOC? To be presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, FL. May.

4. **Margalit, E.**, Yue, X., & Biederman, I. (2016). Impaired Face and Non-face Discrimination in Developmental Prosopagnosics (DPs). To be presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, FL. May.

5. Irawan, I., **Margalit, E**., Herald, S.B., & Biederman, I. (2016). Vertices are Effective in Perceptual Grouping (and Ungrouping). To be presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, FL. May.

6. Biederman, I., **Margalit, E.**, Tjan, B. S., & Shah, M. P. (2016). What is actually affected by the scrambling of objects when localizing LOC? Paper presented at the Annual Meeting of the Society of Experimental Psychologists. Columbia University, New York. April.

Skills

Programming

Python, MATLAB, Bash, R, C/C++, Java, Psychtoolbox, HTML/CSS/JS (see geon.usc.edu/GJW for a recent example)

Software

FSL, Freesurfer, Qualtrics, Praat, Blender, Adobe Photoshop, GNU Gimp, Microsoft Office

Methodologies

fMRI (inc. EPI, neuromelanin-weighted imaging, diffusion-weighted imaging, cardiac-gating), Gabor-Jet Model and Applet, Eye-tracking, Behavioral/Psychophysical research, Salivary Alpha Amylase Collection, Online surveys

Awards and Grants

NSF Graduate Research Fellowship Program Fellow | 2016 – 2021
NSF fellowship recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines

USC Neuroscience Outstanding Student of the Year | 2016
Awarded to USC's best neuroscience student with senior standing

Brian Philip Rakusin Neuroscience Award | 2015
Awarded to USC's best neuroscience student with sophomore or junior standing

USC Discovery Scholar | 2016
Awarded to students who excel in the classroom while demonstrating the ability to create exceptional new scholarship

USC Provost's Undergraduate Research Fellowship | 2013-2016
Five-time recipient of award established to provide support to student researchers

USC SOAR (Student Opportunities for Academic Research) Grant | 2015
Grant supporting undergraduate research with a faculty mentor

USC Dean's Scholarship | 2012-Present
Merit-based tuition scholarship

George H. Mayr Scholarship Foundation | 2015
Awarded to outstanding students from California in the college of letters, arts, and sciences

USC University Trustees Award | 2016
Awarded for highest GPA among undergraduate males at the University

Phi Beta Kappa Honor Society | 2015

Service

Student Representative, USC Undergraduate Neuroscience Executive Committee | 2015 -2016
Team Captain, USC Cross Country Club | 2014-2015
Mentor to undergraduate lab members: Jordan Juarez, Isabel Irawan, Emily Meschke, and Rafael Maarek