

## 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: **3.99**

### Research

**Stanford University** | 2016 - Present  
NeuroAI Lab (*PI: Prof. Daniel Yamins*)  
Vision & Perception Neuroscience Lab (*PI: Prof. Kalanit Grill-Spector*)

**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*. *Journal of Vision*, 16(11).

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, & Psychophysics*, 78(8), 2298-2306.
4. **Margalit, E.**, Biederman, I., Tjan, B.S., Shah, M.P. (2017). What is Actually Affected by the Scrambling of Objects When Localizing the Lateral Occipital Complex. *Journal of Cognitive Neuroscience*. 20(9), 1595-1604. doi:10.1162/jocn\_a\_01144

## **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.
7. Biederman, I., **Margalit, E.**, Maarek, R.S., Meschke, E.X., Shilowich, B.S., Hacker, C. M., Juarez, J.J., Seamans, T. J., & Herald, S.B. (2017). What is the Nature of the Perceptual Deficit in Congenital Prosopagnosia? Poster presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, FL. May.

## **Skills**

### **Programming**

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

### **Software**

TensorFlow, FSL, Freesurfer

### **Methodologies**

Deep learning, 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 Speaker Representative**, Stanford Neurosciences PhD Program

**TA**, Stanford Intensive Neurosciences (SIN) Boot Camp

**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