EMILY X MESCHKE

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EDUCATION

Bachelor of Science in Computational Neuroscience
University of Southern California | 2015 – 2019
Minor in Computer Science

RESEARCH

Image Understanding Lab, Undergraduate Research Assistant
PI: Dr. Irving Biederman | Fall 2015 – Present
I conduct psychophysical testing and neuroimaging research to test theories of human face recognition and evaluate potential causes of developmental prosopagnosia.

Interaction Lab, Undergraduate Researcher
PI: Dr. Maja Matarić **|** Spring 2018 – Present
My research focuses on modeling aspects of human cognition, specifically perception and attention, to facilitate collaboration between humans and robots.

PUBLICATIONS

[1]   Meschke, E.X., & Biederman, I. (2018). How many faces can you recognize?, in progress.
[2]   Meschke, E.X., & Biederman, I. (2018). Discriminating Doppelgängers. Psychological Science, submitted.
[3]   Hacker, C.M., Meschke, E.X., & Biederman, I. (2018). A Face in a (Temporal) Crowd. Vision Research, in press.
[4]   Biederman, I., Shilowich, B.E., Herald, S.B., Margalit, E., Maarek, R., Meschke, E.X., & Hacker, C.M. (2018). The Cognitive Neuroscience of Person Identification. Neuropsychologia, 116, 205-214.

CONFERENCE POSTERS & PRESENTATIONS

[1]   Biederman, I., Meschke, E.X., Hacker, C.M., Maarek, R.M., Margalit, E., & Herald, S.B. (2018). What is the Nature of the Perceptual Deficit in Congenital Prosopagnosia? Talk given at the Annual Meeting of Vision Sciences Society, St. Petersburg Beach, Fl. May.
[2]   Meschke, E.X., Hacker, C.M., & Biederman, I. (2018). How Many Faces Can a Person Recognize? Poster presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, Fl. May.
[3]   Hacker, C.M., Meschke, E.X., & Biederman, I. (2018). Recognition of Stretched Faces. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, Fl. May.
[4]   Zhu, T., Nelken, M., Hacker, C.M., Meschke, E.X., & Biederman, I. (2018). Matching Depth-Rotated Faces at Varying Degrees of Physical Similarity. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, Fl. May.

[5]   Meschke, E.X., Hacker, C.M., Juarez, J.J., Maarek, R.S., & Biederman, I. (2017). Detecting Unspecified Familiar Faces. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, Fl. May.

[6]   Biederman, I., Meschke, E., Maarek, R., & Margalit, E. (2017). What is the Nature of the Perceptual Deficit in Congenital Prosopagnosia? Paper presented at the Annual Meeting of the Society of Experimental Psychologists, Vanderbilt Univ., Nashville, TN. March.

[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.

[8]   Irawan, I., Margalit, E., Meschke, E., Herald, S.B., & Biederman, I. (2016). Vertices are Effective in Perceptual Grouping (and Ungrouping) in Object Recognition. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Petersburg Beach, Fl. May.

SKILLS

Programming	Java, Python, MATLAB, C/C++, Psychtoolbox, HTML/CSS/JS, MySQL, Bash, R
Software	FSL, Adobe Photoshop
Methodologies	fMRI, Psychophysical research, Behavioral research, Experimental design, Online surveys

AWARDS

USC Presidential Scholarship   2015 – 2019
    Half tuition merit-based scholarship.
USC Rose Hills Undergraduate Research Fellowship   2017
    Award supporting full-time research in science or engineering over the summer.
USC Provost Undergraduate Research Fellowship   2016 – 2018
    Six-time recipient of award established to provide support to student researchers.
USC SOAR (Student Opportunities for Academic Research) Grant   2018
    Grant supporting undergraduate research with a faculty mentor.
Arnold W. Bramlett Scholarship   2017 – 2018
    Awarded to high-performing students studying in USC Dornsife.

SOCIETY MEMBERSHIPS

Vision Science Society, Society of Women Engineers, Association for Psychological Science.