

February 20th, 2023

Emily Lauren Schwartz

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EDUCATION

BOSTON COLLEGE Chestnut Hill, MA
Ph.D. Student in Psychology and Neuroscience
Advisor: Dr. Stefano Anzellotti

Master of Arts, Cognitive Neuroscience May 2022
Advisor: Dr. Stefano Anzellotti
GPA: 4.0/4.0

NEW YORK UNIVERSITY New York, NY
Bachelor of Arts, Psychology May 2017

- Minors in Chemistry, Child and Adolescent Mental Health
- Cumulative GPA: 3.63/4.00 (Dean's List for Academic Year Fall 2015 - Spring 2017)
- Major GPA: 3.97/4.00 (9 courses)

HONORS AND AWARDS

2019 – Present	University Presidential Fellowship: Merit-Based Award, Boston College
2023	National Eye Institute Early Career Scientist Travel Grant
2022	Donald J. White Teaching Excellence Award for Graduate Teaching
2020	Cognitive Neuroscience Society Annual Meeting Graduate Student Award
2020	Nu Rho Psi Neuroscience Honor Society
2016	Psi Chi Psychology Honor Society
2016	J.S. Sinclair Research Scholar
2016	Dean's Undergraduate Research Fund Grant

RESEARCH EXPERIENCE

Fall 2019 – Present *Graduate Student*
Social and Cognitive Computational Neuroscience Lab, Boston College
Advisor: Dr. Stefano Anzellotti
Research Area: Identity and facial expression recognition using deep learning and other computational methods. Neural mechanisms involved in social perception. Perceptual representations as a basis to acquire person knowledge.

Spring 2018 – Summer 2019	<i>Psychology Assistant</i> Division of Motor and Cognitive Aging, Department of Neurology, Albert Einstein College of Medicine Advisors: Dr. Joe Verghese and Dr. Helena Blumen Research Area: Gait, cognitive decline, and dementia. Anatomical and functional brain structures in motoric cognitive risk syndrome.
Spring 2018 – Summer 2019	<i>Research Assistant Volunteer</i> Lab for the Developing Mind, New York University Advisor: Dr. Moira Dillon Research Area: Geometric understanding and spatial sensitivity development in humans, examining how intuitions about planar forms develop during childhood.
Summer 2017 – Spring 2018	<i>Research Associate</i> Jha Lab, University of Miami Advisors: Dr. Amishi Jha and Dr. Ekaterina Denkova Research Area: Investigating enhanced attention and working memory through mindfulness in the military population.
Fall 2016 – Spring 2017	<i>Student Research Intern</i> Multiple Sclerosis Comprehensive Care Center, NYU Langone Medical Center Advisor: Dr. Leigh Charvet Research Area: Neuropsychological research in adults and children with Multiple Sclerosis.
Spring 2016 – Spring 2017	<i>Undergraduate Research Assistant</i> West Interpersonal Perception Lab, New York University Advisors: Dr. Tessa West and Dr. Katherine Thorson Research Area: Intergroup perception and dyadic interactions.
Summer 2015	<i>Summer Intern</i> Child Study Center, NYU Langone Medical Center Advisor: Dr. Yihong Zhao Research Area: Effects of alcohol on adolescent brain development using data from the Human Brain Connectome Project.

PUBLICATIONS

Schwartz, E.*, O’Neill, K.*, Saxe, R., Anzellotti, S. (2023). Challenging the Classical View: Recognition of Identity and Expression as Integrated Processes. *Brain Sciences*, 13(2):296. [* Indicates shared authorship]

Blumen, H., **Schwartz, E.**, Allali, G., Beauchet, O., Brickman, A., Callisaya, M., Takehiko, D.,

Lipton, R., Shimada, H., Srikanth, V., Verghese, J. (2021). Cortical Volume, Thickness, and Surface Area in the Motoric Cognitive Risk Syndrome. *Journal of Alzheimer's Disease*, 81(2).

MANUSCRIPTS IN PREPARATION

Schwartz, E., Alreja, A., Richardson, R. M., Ghuman, A., Anzellotti, S. (2023). Intracranial electroencephalography and deep networks reveal shared substrates for representations of face identity and expressions. *Under Revision*.

PRESENTATIONS

Schwartz, E., Alreja, A., Richardson, R.M., Ghuman, A., Anzellotti, S. (2023, May 19-24). *Comparing iEEG responses and deep networks with Bayesian statistics challenges the view that lateral face-selective regions are specialized for facial expression recognition over identity recognition*. Accepted talk for presentation at Vision Sciences Society Meeting, St. Pete Beach, FL.

Schwartz, E., O'Neill, K., Saxe, R., Anzellotti, S. (2022, August 25-28). *Spontaneous Learning of Face Identity in Expression-Trained Deep Nets*. Poster presented at Conference on Cognitive Computational Neuroscience, San Francisco, CA.

Schwartz, E., O'Neill, K., Alreja, A., Ghuman, A., Anzellotti, S. (2021, May 21-26). *Deep networks trained to recognize facial expressions predict ventral face-selective ECoG responses as well as networks trained to recognize identity*. Poster submitted for presentation at Vision Sciences Society Meeting, St. Pete Beach, FL.

Schwartz, E., O'Neill, K., Anzellotti, S. (2020, August 18). *Investigating the emergence of expression and identity representations in a neural network trained to discriminate identities*. Poster presented at Center for Brains, Minds, and Machines virtual summer program.

Schwartz, E., O'Neill, K., Anzellotti, S. (2020, June 19-24). *Emergence of expression representations in a neural network trained to discriminate identities*. Poster presented at Vision Sciences Society Meeting, St. Pete Beach, FL.

Schwartz, E., O'Neill, K., Anzellotti, S. (2020, March 2-5). *Investigating the emergence of expression representations in a neural network trained to discriminate identities*. Poster presented at Cognitive Neuroscience Society Annual Meeting, Boston, MA.

Blumen, H., **Schwartz, E.**, Allali, G., Beauchet, O., Brickman, A., Callisaya, M., Takehiko, D., Lipton, R., Shimada, H., Srikanth, V., Verghese, J. (2019, July 14-17). *Cortical Thinning in the Motoric Cognitive Risk (MCR) Neuroimaging Consortium*. Poster presented at Alzheimer's Association International Conference, Los Angeles, CA.

Schwartz, E., Schwartz, B., Zhao, Y. (2015, August 12). *The effect of alcohol on adolescent brain structure*. Poster presented at the 4th Annual NYU CSC Poster Conference, New York, NY.

OUTREACH & OTHER ACTIVITIES

Fall 2019 – Present	BC Technological & Methodological Training Committee
Summer 2020 – Present	Boston College Diversity & Inclusion: Support Working Group
Fall 2020 – Spring 2022	Boston College Psychology Colloquium Committee
Spring 2020 – Fall 2021	Asperger/Autism Network, <i>Volunteer</i>
Fall 2019 – Spring 2022	Boston College Psychology Outreach Committee

TEACHING EXPERIENCE

Spring 2023	Cognitive Neuroscience, <i>Teaching Assistant</i> , Boston College
Fall 2022	Clinical Psychology, <i>Teaching Assistant</i> , Boston College
Spring 2022	Social Psychology, <i>Teaching Assistant</i> , Boston College
Fall 2021	Developmental Psychology, <i>Teaching Assistant</i> , Boston College
Spring 2021	Social Psychology, <i>Teaching Assistant</i> , Boston College
Fall 2020	Social Psychology, <i>Teaching Assistant</i> , Boston College
Spring 2020	Cognitive and Neural Bases of Person Knowledge, <i>Teaching Assistant</i> , Boston College
Fall 2019	Introduction to Behavioral Statistics and Research, <i>Teaching Assistant</i> , Boston College

GUEST LECTURES

Fall 2021	Emotion Identification in Preverbal Infants
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SKILLS

Computer: Python, PyTorch, MATLAB, R, Linux (Ubuntu), WebPPL (language in Javascript), SPSS, Microsoft Office Suite, MakeHuman, FACSHuman

Neuroimaging software/analysis: FreeSurfer, SPM12, FSL, iEEG time continuous data analysis

Data collection methods: Functional magnetic resonance imaging (fMRI), Psych Toolbox, E-Prime Suite,, BIOPAC for physiological measurements, Behavioral

MEMBERSHIPS

Fall 2019 – Present	Cognitive Neuroscience Society
Fall 2019 – Present	Vision Sciences Society

RELEVANT COURSEWORK

Graduate: Current Topics in Moral Psychology, Experimental Design and Statistics, Advanced Brain Systems: Motivation & Emotion, Advanced Topics in the Neuroscience of Memory, Introduction to Machine Learning, Cognitive Neuroscience of Memory, Computational Models of Cognition (auditing, to be completed May 2023)

Undergraduate: Intro to Neural Science, Neural Data Analysis with MATLAB, Advanced Psychological Statistics, Intro to Computer Programming, Child and Adolescent Brain Development, Cognitive Neuroscience, Developmental Psychology, Perception, Abnormal Psychology, Social Psychology, Lab in Personality and Social Psychology, Texts & Ideas: Getting a Life, Human Evolution, Physics I/II, Biology I/II, Organic Chemistry I/II, Biochemistry I, Calculus II

Other: Center for Brains, Minds, and Machines Summer Course 2020 (virtual), FreeSurfer Tutorial and Workshop (MGH training course), Linear Algebra, Introduction to Bayesian Statistics (online course)