February 15ᵗʰ, 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

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

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| **2019 – Present** | University Presidential Fellowship: Merit-Based Award, Boston College |
| **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

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| **Fall 2019 – Present** | *Graduate Student* <br> Social and Cognitive Computational Neuroscience Lab, Boston College <br> Advisor: Dr. Stefano Anzellotti <br> 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** | *Psychology Assistant* <br> Division of Motor and Cognitive Aging, Department of Neurology, Albert Einstein College of Medicine <br> Advisors: Dr. Joe Verghese and Dr. Helena Blumen |

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

## PUBLICATIONS

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

**Schwartz, E.**, O'Nell, 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'Nell, 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'Nell, 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'Nell, 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

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| **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, *Volunteer* |
| **Fall 2019 – Spring 2022** | Boston College Psychology Outreach Committee |

## TEACHING EXPERIENCE

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| **Spring 2023** | Cognitive Neuroscience, *Teaching Assistant*, Boston College |

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| **Fall 2022** | Clinical Psychology, *Teaching Assistant*, Boston College |
| **Spring 2022** | Social Psychology, *Teaching Assistant*, Boston College |
| **Fall 2021** | Developmental Psychology, *Teaching Assistant*, Boston College |
| **Spring 2021** | Social Psychology, *Teaching Assistant*, Boston College |
| **Fall 2020** | Social Psychology, *Teaching Assistant*, Boston College |
| **Spring 2020** | Cognitive and Neural Bases of Person Knowledge, *Teaching Assistant,* Boston College |
| **Fall 2019** | Introduction to Behavioral Statistics and Research, *Teaching Assistant,* Boston College |

## GUEST LECTURES

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| **Fall 2021** | Emotion Identification in Preverbal Infants |

## 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), E-Prime Suite, Psych Toolbox, BIOPAC for physiological measurements, Behavioral

## MEMBERSHIPS

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| **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)