

Emily K. Prentiss

Concepts Actions & Objects Lab
Department of Brain & Cognitive Sciences
University of Rochester

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Education

University of Rochester

Rochester, NY

B.S. in Brain & Cognitive Sciences

May 2016

- Distinction and Honors in Research
- Honors Thesis: “The Role of the Parvocellular Pathway in Fast Visuomotor Updating”
 - Committee: Bradford Z. Mahon, Ph.D. (Primary Mentor); Duje Tadin, Ph.D., Jude Mitchell, Ph.D.
- Minor in Clinical Psychology

Research Experience

Concepts, Actions, and Objects Lab, University of Rochester

Rochester, NY

Laboratory Manager & Research Assistant

June 2016-Present

Principle Investigator: Bradford Z. Mahon, Ph.D.

- Primary appointment: Cognitive Neuropsychology Lab
- Experimental design, data collection, and analysis for behavioral/psychophysical and fMRI tasks
- Neuropsychological and visual testing of stroke and neurosurgery patients
- Recruiting patient participants and scheduling appointments
- Training and supervising undergraduate research assistants
- Maintenance of research protocols
- Management of daily lab activities

Concepts, Actions, and Objects Lab, University of Rochester

Rochester, NY

Undergraduate Researcher

Summer 2015-Spring 2016

Primary Advisor: Bradford Z. Mahon, Ph.D. (PI)

- Experimental design, data collection, and analysis for behavioral experiments probing visual processing in healthy individuals and individuals with strokes affecting vision
- Recruiting research participants and scheduling appointments
- Administrative tasks
- Completion of an undergraduate honors thesis

University of Rochester Perception & Action Lab

Rochester, NY

Undergraduate Research Assistant

Fall 2013 – Fall 2014

Primary Advisor: David C. Knill, Ph.D. (PI, *deceased*)

- Data collection for behavioral experiments probing visually-guided motor actions and visual working memory
- Recruiting research participants and scheduling appointments
- Training new research assistants
- Administrative tasks

Primary Advisors: John S. Butler, Ph.D. & John J. Foxe, Ph.D. (PI)

- Acquisition and analysis of electroencephalography (EEG) data for experiments probing multisensory integration in adults and children (healthy individuals and individuals with autism, ADHD, and sensory processing deficits)
- Training new interns

Poster Presentations

Prentiss, E. K.; Chen, Q; Schneider, C.; Mahon, B.Z. (2016). The Role of the Parvocellular Pathway in Fast Visuomotor Updating. Poster. Presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY.

Prentiss, E. K.; Chen, Q; Schneider, C.; Mahon, B.Z. (2016). The Role of the Parvocellular Pathway in Fast Visuomotor Updating. Poster. Presented at the University of Rochester Undergraduate Research Expo, Rochester, NY.

Schneider, C. L.; **Prentiss, E. K.;** Williams, Z.; Busza, A., Sahin, B., Mahon, B. Z. (2016). Do Areas of Retinal Ganglion Cell Degeneration Coincide with Areas of Decreased Representation in Visual Cortex Following Stroke? Poster. Presented at the Optical Society of America Fall Vision Meeting, Rochester, NY.

Guest Lecture

Prentiss, E. K., A Behavioral Approach to Blindsight Research. Guest Lecture in BCS 204: Laboratory in Cognitive Neuroscience. Instructors: Bradford Z. Mahon, Ph.D. and Renee Miller, Ph.D. University of Rochester, September 8, 2015.

Awards & Honors

Walt & Bobbi Makous Prize, Center for Visual Science, University of Rochester

- Awarded May 2016
- Given to the graduating senior who has made the most outstanding contribution to vision research at the University of Rochester

Presentation Travel Award, University of Rochester Office of Undergraduate Research

- Awarded April 2016 to attend and present at the Cognitive Neuroscience Society's Annual Meeting (April 2016, New York, NY)

Bausch & Lomb Honorary Science Award & Scholarship, University of Rochester

- Awarded August 2012-May 2016

Dean's List, University of Rochester

- Achieved 2013-2016

New York State Excellence Scholarship

- Awarded June 2012

Skills, Certifications, and Professional Membership

Research Methods: Neuropsychological assessment, psychophysics (basic), eye-tracking, infrared body tracking, electroencephalography (EEG)

Software:

Basic Proficiency: Brain Electrical Source Analysis (BESA); Presentation; ViewPoint (eye tracking); FileMaker; EEGLab toolbox for Matlab; DMDX, OptiTrack Motive

Working Proficiency: MATLAB; Psychtoolbox; BioSemi Actiview (EEG acquisition), EyeLink (eye-tracking)

Expert Proficiency: Microsoft Office, Mac and Windows operating systems

Hardware:

Basic Proficiency: NordicNeuroLab VisualSystem goggles, OptiTrack Flex

Working Proficiency: EyeLink II & EyeLink 1000 cameras; Optotrak Suite; BioSemi Active Electrodes (EEG recording)

Certifications: CITI certified: Greater than Minimal Risk (biomedical) human subject research; MRI Safety Certified

Professional Membership: Cognitive Neuroscience Society

Foreign Language: French (advanced proficiency)