

WEBSITE

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MARK SCHURGIN

I am a cognitive psychologist with an expertise in vision, object recognition and memory. Throughout my research career I have specialized in applying diverse research methods to understand issues of human-computer interaction, responses biases, communication strategies and recognition. I thrive on working collaboratively with scientists and engineers from diverse backgrounds to solve shared problems pertaining to human behavior and cognition.

EDUCATION

JOHNS HOPKINS UNIVERSITY

Ph.D. 2017, M.A. 2014

Cognitive Psychology

VASSAR COLLEGE

B.A. Psychology, 2010

Vision and Memory Lab

University of California, San Diego

Postdoctoral Research Scientist

June 2017 - Present

Visual Thinking Lab

Johns Hopkins University

Graduate Researcher & Lecturer

August 2012 - May 2017

Visual Cognition Lab

Northwestern University

Lab Manager, Research Assistant

May 2008 - June 2012

SKILLS

- Programming/Scripting Languages: MATLAB; Python; JavaScript; HTML
- Experiment Presentation Software: Experiment Builder; Psychtoolbox; DirectRT; PsychoPy
- Statistics: SPSS; R (rstan); Multivariate Analyses (Linear & Non-Linear Regressions, Bayesian Modeling, Mixed Effects, Time-Series, ANOVA)
- Research Methods: Experimental Design; Computational Modeling; Eye-Tracking; EEG; Surveys; Data Mining; Usability

EXPERIENCE

Utilized EEG to understand how visual long-term memories interact with the short-term maintenance of perceptual information. Implemented experiments online (HTML/JavaScript) via mTurk. Currently developing novel stimuli sets, measures, and computational models to precisely isolate and quantify visual representations in memory.

Designed methods to unite vision scientists studying perception, engineers designing object recognition systems, and neuroscientists studying long-term memory. Managed and trained large teams of researchers (15+) to assist in projects. Created hierarchical Bayesian model to conceptualize memory performance.

Collaborated with international researchers to identify eye-movement patterns during emotional face recognition. Performed all data analyses, created video demonstrations in MATLAB, and designed a Naive Bayes classifier to assist in data interpretation. Oversaw multimillion dollar government grant accounts and managed project scope to make sure deliverables achieved funding aims.

SELECTED PUBLICATIONS

- Schurgin, M. W. & Flombaum, J. I. (2018). Properties of Visual Episodic Memory Following Repeated Encounters with Objects. *Learning & Memory*.
- Schurgin, M. W. & Flombaum, J. I. (2018). Visual Working Memory is More Tolerant Than Visual Long-Term Memory. *Journal of Experimental Psychology: Human Perception and Performance*.
- Schurgin, M. W. & Flombaum, J. I. (2017). Exploiting Core Knowledge for Visual Object Recognition. *Journal of Experimental Psychology: General*, 146(3), 362-375.
- Schurgin, M. W. Nelson, J., Iida, S., Ohira, H., Chiao, J. Y., & Franconeri, S. L. (2014). Eye movements during emotional recognition in faces. *Journal of Vision*, 14(13):14, 1-16.

COMMUNITY ENGAGEMENT

- Creator & Director, Psychological and Brain Sciences High School Engagement Program (2016-2017)
- Director & Speaker, Brain Awareness Week at Baltimore Polytechnic Institute High School (2013-2017)

AWARDS

- New Investigator Award, American Psychological Association 2018 (Division: Experimental Psychology)
- G. Stanley Hall Scholar's Award, Johns Hopkins University 2017
- Walter L. Clark Teaching Award, Johns Hopkins University 2017
- Dean's Teaching Fellowship, Johns Hopkins University 2016-2017
- Walter L. Clark Service Award, Johns Hopkins University 2016
- Robert Waldrop & Dorothy Waldrop Graduate Fellowship, Johns Hopkins University 2013-2015
- Best Talk / Paper Award at the 21st Annual OPAM Meeting 2013