

## WEBSITE

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## MOBILE

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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

## 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; Eye-Tracking; EEG; Surveys; Data Mining; Usability

## EXPERIENCE

Vision and Memory Lab

University of California, San Diego

Postdoctoral Research Scientist

June 2017 - Present

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

Visual Thinking Lab

Johns Hopkins University

Graduate Researcher & Lecturer

August 2012 - May 2017

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.

Visual Cognition Lab

Northwestern University

Lab Manager, Research Assistant

May 2008 - June 2012

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. (2017). Exploiting Core Knowledge for Visual Object Recognition. *Journal of Experimental Psychology: General*, 146(3), 362-275.
- Schurgin, M. W. & Flombaum, J. I. (2015). Visual long-term memory has weaker fidelity than working memory. *Visual Cognition*, 23(7), 859-862.
- 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.
- Schurgin, M. W. & Flombaum, J. I. (2014). How undistorted spatial memories can produce distorted responses. *Attention, Perception & Psychophysics*, 76(5), 1371-1380.

## 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

- 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 paper award at the 21<sup>st</sup> annual meeting on Object Perception, Attention, and Memory (OPAM), Toronto, CA 2013