

Andrew Heusser

<http://andrewheusser.github.io>
andrew.heusser@gmail.com | 609.760.1037

EDUCATION

NEW YORK UNIVERSITY

PHD IN PSYCHOLOGY (COGNITIVE
NEUROSCIENCE)

Grad. July 2016 | New York, NY

NORTHEASTERN UNIVERSITY

BS IN PSYCHOLOGY

Grad. May 2008 | Boston, MA

LINKS

Github:// [andrewheusser](#)

LinkedIn:// [andrew-heusser](#)

Twitter:// [@andyheusser](#)

Facebook:// [andrew.heusser](#)

COURSEWORK

GRADUATE

Computational Modeling of Cognition

Math Tools for Neuroscientists

Learning & Memory

Perception

Cognitive Neuroscience

Neuroanatomy

ONLINE

Machine Learning (Coursera)

Javascript: Understanding the Weird

Parts (Udemy)

Learn and Understand AngularJS

(Udemy)

Learn and Understand NodeJS (Udemy)

Angular 2 with Typescript for Beginners

(Udemy)

PROGRAMMING

Proficient:

Python • JavaScript • Matlab

Shell • \LaTeX • HTML • CSS

Familiar:

Arduino • Processing • MySQL

SOFTWARE

Lead developer:

HyperTools • Quail • OpenEXP

Contributor:

Pliers • JsPsych

EXPERIENCE

DARTMOUTH COLLEGE | POSTDOCTORAL FELLOW

July 2016 – present | Hanover, NH

- Utilizing computational models and machine learning to optimize learning on-line and in the classroom.
- Creating open-source software for data analysis and data visualization.

OPENBCI | RESEARCH SCIENTIST / SOFTWARE ENGINEER

Aug 2015 – June 2016 | Brooklyn, NY

- Advised on the development of hardware/software for neuroscientific research applications.
- Lead the development of an open-source software platform for stimulus presentation and data collection in a web browser designed for behavioral and EEG research.

UCDAVIS | JUNIOR SPECIALIST

Aug 2008 – Aug 2011 | Davis, CA

- Designed and conducted EEG study examining neural correlates of memory for temporal context.
- Used fMRI to investigate the brain areas involved in the maintenance of abstract rules.
- Administration and maintenance of a local linux-based network .

FREELANCE | WEB / OPEN-SOURCE SOFTWARE DEVELOPER

2007 – present | Newburyport, MA

- I design websites for people and small businesses.
- I create open-source software for data analysis and data visualization.
- I program full-stack JavaScript web applications for fun.

PUBLICATIONS

Heusser AC, Ziman K, Owen LW, Manning J (2017). HyperTools: A Python toolbox for visualizing and manipulating high-dimensional data. **arXiv**

Heusser AC, Poeppel D, Ezzyat Y, Davachi L (2016). Episodic sequence memory is supported by a theta/gamma phase code. **Nature Neuroscience**

Heusser AC, Awipi T, Davachi L (2013). Repetition-related modulation of the perirhinal cortex predicts conceptual priming. **Neuropsychologia**

Murty VP, Stanek JK, Heusser AC (2013). Representations of distinct salience signals in the nucleus accumbens. **Journal of Neuroscience**

McLaughlin JP, Heusser AC, Reilley KJ, Giulianotti M, Houghten RA (2009) The direct In vivo use of mixture-based libraries in the drug discovery process. **Peptide Science**

AWARDS

2013 Bennet B. Murdock Student Research Award

2013 NSF Graduate Research Fellowship Honorable Mention

2012 NSF Graduate Research Fellowship Honorable Mention

2008 Joseph Armington Memorial Award in Physiological Psychology Research

2007 Northeastern Provost Undergraduate Research Award