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 | Mountain View, CA
- 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
Jan 2013 – May 2013 | 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 | Palo Alto, CA & Ithaca, NY
- 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