Andrew Heusser

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

EDUCATION

NEW YORK UNIVERSITY
PhD in Cognitive Neuroscience
Grad. July 2016 | New York, NY
My research utilized neuroimaging and computational models to understand human learning and memory

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
Coursera Deep Learning Specialization
Machine Learning
Javascript: Understanding the Weird Parts
Learn and Understand AngularJS
Learn and Understand NodeJS
Angular 2 with Typescript

PROGRAMMING

Proficient:
Python • JavaScript • Matlab
Shell • LaTeX • HTML • CSS
Familiar:
Arduino • Processing • SQL

SOFTWARE

Lead developer:
HyperTools • Quail • SuperEEG
Contributor:
Pliers • JsPsych

EXPERIENCE

DARTMOUTH COLLEGE | Postdoctoral Fellow
July 2016 – present | Hanover, NH
- Integrating computational models, machine learning, and data (neural and behavioral) to optimize human learning efficiency.
- Leading development of open-source software for data analysis and data visualization.

OPENBCI | Research Scientist / Software Engineer
Aug 2015 – June 2016 | Brooklyn, NY
- 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.
- Advised on the development of hardware/software for neuroscientific research applications.

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.

SELECTED PUBLICATIONS

Heusser AC, Ziman K, Owen LW, Manning J (Accepted). HyperTools: A Python toolbox for gaining geometric insights from high-dimensional data. **Journal of Machine Learning Research**

Heusser AC, Fitzpatrick PC, Field CE, Ziman K, Manning J (In press). Quail: A Python toolbox for analyzing and plotting free recall data **Journal of Open Source Software**

Heusser AC, Ezzyat Y, Shiff L, Davachi L (In press). Perceptual boundaries cause mnemonic trade-offs between local boundary processing and across-trial associative binding **JEP:LMC**

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**

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