

Andrew Heusser

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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). 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