

# Zachary Mineroff

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## EDUCATION

### **Carnegie Mellon University, School of Computer Science**

Pittsburgh, PA

*Masters of Educational Technology and Applied Learning Science*

August 2018 (expected)

- Highlighted Courses: Learning Analytics and Educational Data Science, Crowd Computing, E-Learning Design

### **University of Michigan, Weinberg Institute for Cognitive Science**

Ann Arbor, MI

*B.S. in Cognitive Science with a focus on Computation and Cognition*

April 2015

- GPA: 3.874 / 4.000
- Highlighted Courses: Data Structures and Algorithms, Intro to Artificial Intelligence, Numerical Methods, Intro to Computational Linguistics, Psychology of Language, Mathematical Psychology
- Awards/Honors: James B. Angell Scholar, University Honors – 8 consecutive semesters

## RESEARCH EXPERIENCE

### **Massachusetts Institute of Technology, Department of Brain and Cognitive Sciences**

Cambridge, MA

*Lab Manager*

June 2015 - July 2017

- Developed web applications capable of integrating with Amazon Mechanical Turk to collect survey data from hundreds of participants at a low cost
- Implemented user-friendly programs that allow researchers to present precisely-timed stimuli during neuroimaging experiments while simultaneously recording subject responses
- Created and maintained the laboratory website to provide public access to our materials and key findings, leading to more collaborations with researchers who first heard about the lab through its online presence
- Built and maintained a secure database of over 600 subjects to keep participant data organized and allow users to quickly access relevant information
- Analyzed data from neuroimaging experiments to produce results that were incorporated into academic papers regarding the cognitive basis of human language
- Oversaw general laboratory procedures including scheduling subjects for experiments, facilitating collaborations with researchers from other organizations, and performing data backups

### **RWTH Aachen University, Institute of Process Engineering**

Aachen, Germany

*International Research Assistant*

May - July 2012

- Performed flow tests on molten aluminum alloys to help optimize processes in the casting industry
- Programmed experiments using RheoPlus Software to determine properties of viscous liquids
- Designed a machine part that allowed researchers to run certain experiments for longer periods of time
- Assembled a research report and poster presentation on my findings for the UROP International showcase

### **University of Michigan, Nuclear Engineering and Radiological Sciences**

Ann Arbor, MI

*Undergraduate Research Assistant*

September 2011 - May 2012

- Aided in the design of an electron gun for use in projects involving radiation detection
- Attended weekly seminars to gain laboratory research skills, such as data analysis and technical writing
- Presented results at end of year symposium with a poster and prototype model

## PROFESSIONAL EXPERIENCE

### **American Bureau of Shipping**

Houston, TX

*Ship Structures Intern*

May - August 2013

- Analyzed corrosion levels of 5 cargo ships with a team of 3 engineers to provide safety recommendations
- Reviewed fire plans for 3 large ships to ensure compliance with safety regulations
- Presented project samples and accomplishments to a panel of coworkers and HR representatives

## COMPUTER SKILLS

- Programming/Scripting: MATLAB, HTML, CSS, JavaScript, PHP, Python, C++
- Technologies/Environment: Windows, Mac, Linux, MySQL, FileMaker, Git