

# Zach Mineroff

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## EDUCATION

**Carnegie Mellon University, School of Computer Science** Pittsburgh, PA  
*Masters of Educational Technology and Applied Learning Science (METALS)* August 2018

- Highlighted Courses: Learning Analytics & Educational Data Science, E-Learning Design, Crowd Computing, Applied Machine Learning, Design of Educational Games, Personalized Online Learning

**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

- Highlighted Courses: Data Structures & Algorithms, Intro to Artificial Intelligence, Mathematical Psychology

## PROFESSIONAL EXPERIENCE

**Carnegie Mellon University, Eberly Center for Teaching Excellence & Educational Innovation** Pittsburgh, PA  
*Assistant Director of Learning Engineering* January 2025 - Present

- Supervising a team of five learning engineers to design and implement effective learning experiences
- Using data-driven insights to inform continuous improvement of learning solutions
- Evaluating and recommending educational technologies that support teaching and learning needs
- Advising leadership based on current research, emerging trends, and best practices in learning engineering

**Carnegie Mellon University, Eberly Center for Teaching Excellence & Educational Innovation** Pittsburgh, PA  
*Senior Learning Engineer* September 2018 - December 2024

- Developed instructional assets that align with teaching goals and apply research-based learning principles
- Consulted instructors on the selection of educational technologies and their integration into courses
- Assessed and iterated on instructional components based on student data

**Carnegie Mellon University, School of Computer Science: HCII** Pittsburgh, PA  
*METALS Capstone Mentor* January - July 2019 & 2023

- Mentored 12 grad students who worked with professional clients on real-world ed tech consulting projects
- Led workshops to practice skills and develop mindsets relevant to the students' career goals

**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
- Analyzed neuroimaging data for use in academic papers regarding the cognitive basis of human language

## PROJECTS

**Foundational Program for Struggling Readers, Sponsored by Houghton Mifflin Harcourt** Pittsburgh, PA  
*Team Lead* January - August 2018

- Coordinated a team of five graduate students' efforts to research, design, and implement ways to improve learning outcomes and engagement for struggling readers in K-12 schools
- Communicated with teachers and school admins to schedule interviews, user tests, and class observations

**E-Learning Module for Crowdworkers** Pittsburgh, PA  
*Learning Engineer* October 2017 - February 2018

- Conducted cognitive task analysis on 14 experienced workers from Amazon Mechanical Turk to identify strategies they use to earn money efficiently
- Developed an e-learning module based on learning science principles for novice workers to improve their hourly wages and validated its effectiveness through summative assessments

## TECHNICAL SKILLS

**Programming/Scripting:** MATLAB, R, Python, HTML, CSS, JavaScript, PHP, SQL

**Technologies/Environment:** Canvas LMS, Open Learning Initiative, CTAT, DataShop, GenAI Integrations, Git, MTurk