Education.

University of California, Los Angeles

Los Angeles, CA

Ph.D. in Computer Science, Artifical Intelligence Concentration; Advisor: Prof. Song-Chun Zhu

Expected Jun 2021

University of California, Los Angeles

Los Angeles, CA

M.S. in Computer Science; Advisor: Prof. Song-Chun Zhu

Jun 2017

University of Dayton

Dayton, OH

B.S. in Computer Engineering; Magna Cum Laude; Advisor: Prof. Tarek Taha

May 2015

Skills

Topics

Programming

Python, C/C++, Shell, LaTeX, Matlab, Javascript, HTML5, CSS, Node.JS, Java, CUDA

Machine Learning, Graphical Models, Reinforcement Learning, Bayesian Networks, Statistical Modeling

Experience_

University of California, Los Angeles

Los Angeles, CA

Graduate Student Researcher, Computer Science Department

Sep 2015 - Present

- Studying causal learning for generalization and transfer learning by using causal theory induction. Compared against human performance to understand how humans reason about causal representations.
- Investigating explainable AI (XAI) to foster human trust by using communicative learning and interpretable robot policies.
- Studied imitation learning with a tactile glove to transfer complex human manipulation demonstrations by using a haptic neural network and an And-Or Graph.

Santa Monica College

Santa Monica, CA Jun 2016 - Present

Adjunct Professor, Computer Science Department

- CS 80, Internet Programming, a class focused on HTML, CSS, JavaScript, MySQL, and PHP.
- CS 50, Introduction to C Programming, a class focused on C fundamentals.
- CS 52, Introduction to C++ Programming, a class focused on C++ fundamentals.

International Center for AI and Robot Autonomy

Los Angeles, CA

Robotics Research Engineer Intern

Jun 2018 - Mar 2020

· Built virtual environment for embodied AI that couples language and vision to learn transferrable representations of the environment.

UCLA Radio Los Angeles, CA

Deep End Theory Podcast Host

Jan 2016 - Jan 2020

· Hosted a podcast focused on electronic music that garnered tens of thousands of plays and interviewed some of my favorite electronic music producers.

Garmin International Olathe, KS

Software Engineering Intern, Aviation Department

May 2013 - Aug 2013

• Reduced testing time by 40% for the Datalink team by optimizing timing protocols while adhering to safety standards, saving hundreds of vendor-certification testing time hours.

Cristo Rey Kansas City High School

Kansas City, MO

Summer School Teacher

May 2011 - Aug 2012

Taught pre-calculus and chemistry at a high school focused on college placement for underrepresented groups.

Publications

- Three journal publications in Science Robotics, Engineering, and TPDS. Science Robotics article covered by media outlets such as IEEE Spectrum, Cosmos Magazine, and The Conversation.
- Seven conference publications published in AAAI, CVPR, IROS, ICRA, and CogSci (first-author of five; oral presentations at
- For a complete list of publications, please see my CV, my website (mjedmonds.com) or Google Scholar (ycAoqlAAAAAJ).