

Education

University of California, Los Angeles

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

Los Angeles, CA

Expected Jun 2021

University of California, Los Angeles

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

Los Angeles, CA

Jun 2017

University of Dayton

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

Dayton, OH

May 2015

Skills

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

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

Experience

University of California, Los Angeles

Graduate Student Researcher, Computer Science Department

Los Angeles, CA

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

Adjunct Professor, Computer Science Department

Santa Monica, CA

Jun 2016 - Present

- 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

Robotics Research Engineer Intern

Los Angeles, CA

Jun 2018 - Mar 2020

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

UCLA Radio

Deep End Theory Podcast Host

Los Angeles, CA

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

Software Engineering Intern, Aviation Department

Olathe, KS

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

Summer School Teacher

Kansas City, MO

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*.
- Six conference publications published in *AAAI*, *IROS*, *ICRA*, and *CogSci* (first-author of five; oral presentations at all).