

YUDA SONG

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EDUCATION

Carnegie Mellon University August 2020 - December 2021
M.S. in Machine Learning
University of California, San Diego September 2016 - June 2020
B.S. in Computer Science, B.S. in Mathematics (GPA: 3.945/4.00, Summa Cum Laude)

RESEARCH INTEREST

Reinforcement Learning, Machine Learning, Robotics.

PUBLICATION

Yuda Song, Aditi Mavalankar, Wen Sun, Sicun Gao, “Provably Efficient Model-based Policy Adaptation,” in *International Conference on Machine Learning (ICML)*, 2020.

RESEARCH EXPERIENCE

CSE Department & SDSC @ UCSD, San Diego June 2018 - June 2020
Research Assistant

- Worked at Prof. Sicun Gao's lab in UCSD CSE Department and the San Diego Supercomputer Center. Research focused on reinforcement learning.

ERSP @ UCSD, San Diego September 2017 - April 2018
Research Assistant

- Led in a yearly research program with three other students advised by Prof. Sicun Gao about Boolean Satisfaction Problem (SAT). Published a poster about solving SAT problem with deep learning and reinforcement learning with help from Prof. Christine Alvarado.

Tsinghua University, Beijing June 2016/2017 - August 2016/2017
Research Assistant

- Worked with Prof. Yibo Xue at Tsinghua University. Research focused on the application of machine learning on social networks. Worked on predicting linkage of social network accounts with an accuracy of 70%. Also worked on predicting information propagation on social media with an accuracy of 80%.

TEACHING EXPERIENCE

CSE Department @ UCSD, San Diego January 2020 - April 2020
Graduate Tutor

- Tutored for Prof. Sicun Gao in CSE 291, *Topics in Search and Optimization*, a graduate level class. Responsibility includes designing homework and exams, reviewing reports and helping students in Slack channels.

CSE Department @ UCSD, San Diego January 2019 - June 2020
Upper Division Tutor

- Tutored for Prof. Sicun Gao in CSE 150, *Introduction to Artificial Intelligence: Search and Reasoning* with over 300 students. Tutored for Prof. Gary Cottrell in CSE 154, *Deep Learning*, in its pilot quarter. Responsibility includes holding office hours weekly, leading discussion sections, designing homework and exams, grading, and helping students in Slack channels and Piazza.

- Tutored for Prof. Rick Ord in the courses CSE 11, *Intro to CS OOP: Java*, with over 600 students and CSE 30, *Computer Organization and System Programming* with over 300 students. Tutored in labs, graded homework and exams, answered questions on Piazza, helped with the lectures.

PROJECTS

CaffeineMated

April 2018 - June 2018

Frontend Developer

- Built a mobile app that allows students to bring coffees for their classmates campus-wide. Developed with React Native.

Alpha Gomoku

January 2018 - April 2018

- Built a Gomoku agent trained with AlphaZero algorithm. The agent finished with the level of humans with decent experiences in Gomoku.

VR Classroom

November 2016 - June 2017

Backend Developer

- Built a VR project on Google Daydream and Vive that can simulate a discussion session within 20 people, promoting the experience of online learning.

WhereUAt

September 2016 - June 2017

Full-stack Developer

- Built an iOS app that helps people to organize event and keep track of positions when the event is approaching. Demoted the app on the annual CodePath event.

AWARDS

W.I.C. @ UCSD, San Diego

March 2017

1st place in WIC WI17 Beginners Programming Competition

- Solved 30 out of 32 problems in a 3-hour coding competition restricted to students who had not taken upper division courses. Got the first place among over 100 groups.