

YUDA SONG

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EDUCATION

University of California, San Diego

September 2016 - (est.) June 2020

Major:

B.S. in Computer Science (GPA: 3.96/4.00)

Major:

B.S. in Mathematics (GPA: 4.00/4.00)

RESEARCH INTEREST

Reinforcement Learning, Robotics, Machine Learning, Continuous Control.

RESEARCH EXPERIENCE

CSE Department & SDSC @ UCSD, San Diego

June 2018 - present

Research Assistant

- Worked at Prof. Sicun Gao's lab in UCSD CSE Department and the San Diego Supercomputer Center. Research focused on deep reinforcement learning in control. Had one first-author paper prepared to submit to International Conference of Machine Learning (ICML 2020).

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%.

ERSP @ UCSD, San Diego

September 2017 - April 2018

Research Assistant

- Led in a yearly research program with three other students with 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.

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 - present

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

Alpha Gomoku

January 2018 - April 2018

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

CaffeineMated

April 2018 - June 2018

Frontend Developer

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

VR Classroom

November 2016 - June 2017

Backend Developer

- Built VR Classroom, 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 WhereUAt, an iOS app that helps people to organize event and keep track of positions when the event is approaching. Demoed 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.