HENRY ZHU

hyzhu@stanford.edu ◇ ryzhu.github.io

EDUCATION

Stanford University *2020 - Present*
Ph.D, Computer Science
Advisors: Stefan Wager, Emma Brunskill

University of California, Berkeley *2016 - 2020*
B.S., Electrical Engineering and Computer Science (Highest Honors)
Minor, Mechanical Engineering

University of Cambridge, Pembroke College *Summer 2017*
Concentration in Philosophy

RESEARCH INTERESTS

Developing and applying causal inference, sequential decision making, and machine learning tools for areas currently including public policy, climate resilience and sustainability, healthcare, and education.

PUBLICATIONS

Henry Zhu, Justin Yu, Abhishek Gupta, Dhruv Shah, Avi Singh, Vikash Kumar, Sergey Levine. "Ingredients of Real World Robotic Reinforcement Learning". Spotlight paper in *International Conference on Learning Representations (ICLR)*, 2020.

Michael Ahn, **Henry Zhu**, Kristian Hartikainen, Hugo Ponte, Abhishek Gupta, Sergey Levine, Vikash Kumar. "Low-Cost Robotic Benchmarks for Learning". In *Conference on Robotic Learning (CoRL)*, 2019.

Tuomas Haarnoja, Aurick Zhou, Kristian Hartikainen, George Tucker, Sehoon Ha, Jie Tan, Vikash Kumar, **Henry Zhu**, Abhishek Gupta, Pieter Abbeel, Sergey Levine. "Applications of Soft Actor-Critic Algorithms". *arXiv:1812.05905*, 2019.

Henry Zhu*, Abhishek Gupta*, Aravind Rajeswaran, Sergey Levine, Vikash Kumar. "Dexterous Manipulation with Deep Reinforcement Learning". In *International Conference on Robotics and Automation (ICRA)*, 2019.

TEACHING

Intro to Artificial Intelligence (CS 188) *Spring 2019*
Probability for Data Science (STAT 140) *Spring 2018*
Intro to Data Science (CS/STAT C8) *Fall 2017, Spring 2018*

SELECTED HONORS

National Science Foundation, Graduate Research Fellowship *2020*

Phi Beta Kappa, UC Berkeley *2020*
Letters and Sciences Honor Society. Awarded for high GPA to students with sufficient breadth units.

Eta Kappa Nu, UC Berkeley *2017*
Electrical Engineering and Computer Sciences Honor Society.

Tau Beta Pi, UC Berkeley *2017*
Engineering Honor Society.

University of California Regents and Chancellors Scholarship *2016*
Awarded to 200 entering undergraduates.

Mary C. and William G. Drake Scholarship *2016*
Full ride scholarship given to six incoming mechanical engineering undergraduates.

ACADEMIC SERVICE

Reviewer

International Conference on Robotics and Automation (ICRA 2020)

SELECTED GRADUATE COURSEWORK

EE 376A: Convex Optimization

STATS 300A: Theory of Statistics I

STATS 300B: Theory of Statistics II

STATS 310A: Theory of Probability I

STATS 311: Information Theory

STATS 361: Causal Inference

SELECTED UNDERGRADUATE COURSEWORK

CS 162: Operating Systems and System Programming

CS 170: Efficient Algorithms and Intractable Problems

CS 184: Computer Graphics and Imaging

CS 188: Artificial Intelligence

CS 189: Machine Learning

CS 285: Deep Reinforcement Learning

EE 120: Signals and Systems

MATH 104: Introduction to Analysis

MATH 110: Linear Algebra

ME 104: Engineering Mechanics

ME 106: Fluid Mechanics

ME C115: Molecular Biomechanics and Mechanobiology of the Cell

ME 132: Dynamic Systems and Feedback

ME 154: Statistical Thermophysics

ME 190L: Practical Control System Design: A Systematic Loopshaping Approach

PHIL 103S: A Good Life or a Moral Life?

PHIL 104S: Aesthetics and Emotion

PHIL 117S: Truth

PHYS 137A: Quantum Mechanics

PSYCH 166AC: Cultural Psychology
STAT 140: Probability for Data Science
STAT 150: Stochastic Processes
STAT 210A: Theoretical Statistics