Yichen Song

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Education

- **Boston University** — Boston, MA
  Ph.D. in Computing and Data Science (GPA: 3.95/4.0) — *Sept. 2023 – Present*
  Advisor: Aldo Pacchiano
- **University of Michigan - Ann Arbor** — Ann Arbor, MI
  Master of Science in Robotics (GPA: 3.95/4.0) — *Sept. 2021 – Apr. 2023*
- **Southern University of Science and Technology (SUSTech)** — Shenzhen, China
  Bachelor of Engineering — *Sept. 2017 – Jun. 2021*
  Overall GPA: 3.85/4.0 (ranking 2/44). Major GPA: 3.86/4.0 (ranking 2/44)
  Major: Robotics Engineering, Department of Mechanical and Energy Engineering

Research Interests: Reinforcement Learning, Bandits, Robotics, Online Learning

Publications

[1] A. Russo, **Y. Song**, A. Pacciano, "Pure Exploration with Feedback Graphs," *International Conference on Artificial Intelligence and Statistics (AISTATS), 2025, Oral presentation*

[2] H. Zhou, **Y. Song**, V. Tzoumas, "Safe Non-Stochastic Control of Control-Affine Systems: An Online Convex Optimization Approach," *IEEE Robotics and Automation Letters*, 2023

Work Experience

- **Behavior Prediction of Road Users** — Honda Research Institute USA, Inc., San Jose, CA
  Research Intern. Mentor: Aolin Xu — *May 2022 - Aug. 2022*

Honors and Awards

- **Outstanding Graduate (top 3 among 44 graduates)** — SUSTech, 2021
- **The Third Class of the Merit Student Scholarship** — SUSTech, 2020
- **The Second Class of the Merit Student Scholarship** — SUSTech, 2019
- **The Second Class of the Merit Student Scholarship** — SUSTech, 2018

Selected Courses

- **Boston University**: Introduction to Reinforcement Learning, Introduction to Sequential Decision Making, Optimization for Machine Learning, Statistical Learning Theory
- **University of Michigan**: Flight and Trajectory Optimization, Motion Planning, Machine Learning, Mobile Robotics, Self-Driving Cars: Perception and Control, Math for Robotics, Robotics System Lab
- **Southern University of Science and Technology**: Modern Control and Estimation, Robot Operating System, Robot Modeling and Control, Collaborative Robot Learning, Fundamentals of Engineering Optimization