

# Yichen Song

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## EDUCATION

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- **Boston University** Boston, MA  
*Ph.D. in Computing and Data Science (GPA: 3.94/4.0)* 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

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- [1] A. Russo, **Y. Song**, A. Pacchiano, “Pure Exploration with Feedback Graphs,” *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2025
- [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

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- **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

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- **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

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- **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

## TECHNICAL SKILLS

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- **Programming Languages:** C++, Python, MATLAB, Java
- **Software & Tools:** ROS, Linux, Docker, Git, Carla, SOLIDWORKS, MATLAB Simulink Toolbox, Webots, L<sup>A</sup>T<sub>E</sub>X