

# CHENDI QU

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## EDUCATION

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**Ph.D., Shanghai Jiao Tong University**

*2021.9 - present*

*Department of Automation* ◊ Advised by Prof. Jianping He

**B.E., Tsinghua University**

*2017.9 - 2021.6*

*Department of Automation* ◊ Advised by Prof. Yilin Mo

## RESEARCH INTEREST

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I focus on problems at the intersection of optimal control and reinforcement learning, applying mainly in robotics. My recent work studies the control intention inference and imitation based on demonstration, including the inverse optimal control and inverse reinforcement learning.

## PUBLICATIONS

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### Journal Article

- **C. Qu**, J. He, J. Li, X. Duan and Y. Mo, “Optimal Control for Mobile Agents Considering State Unpredictability”, IEEE Transactions on Automatic Control, Jun. 2024, ready to publish.

### Conference Papers

- **C. Qu**, J. He, X. Duan and S. Wu, “Control Input Inference of Mobile Agents under Unknown Objective”, IFAC World Congress 2023, Yokohama, Japan, 2023.
- **C. Qu**, J. He and J. Li, “Multi-period Optimal Control for Mobile Agents Considering State Unpredictability,” 2022 IEEE 96th Vehicular Technology Conference (VTC2022-Fall), London, United Kingdom, 2022.
- **C. Qu**, J. He, J. Li, C. Fang and Y. Mo, “Moving Target Interception Considering Dynamic Environment,” 2022 American Control Conference (ACC), Atlanta, GA, USA, 2022.

## RESEARCH INTERN

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**Summer Research Internship** - University of California, San Diego

*2020.6 - 2020.8*

Advised by Prof. Xiaolong Wang

- Multi-task reinforcement learning based on auxiliary task gradient.

## TECHNICAL STRENGTHS

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- Programming: C/C++, C#, MATLAB, Python, Julia
- Others: SQLite, ROS + Gazebo

## SERVICE

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- **Reviewer** for IEEE TAC, TCNS, ACC.
- **Teaching Assistant** - Control Theory, Shanghai Jiao Tong University

*2021.9 - present*