

# CHENGRUI QU

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## RESEARCH INTEREST

Theoretical Foundations of Reinforcement Learning  
Algorithms for Multi-agent Systems  
Deployment of Machine Learning in real world

## EDUCATION

- **California Institute of Technology (Caltech)** Jun. 2024 - Sep. 2024  
Summer Undergraduate Research Fellowships (SURF)  
◦ Advisor: Adam Wierman Pasadena, CA, USA
- **Peking University** Sep. 2021 - Jun. 2025 (expected)  
Major: Theoretical and Applied Mechanics Beijing, China  
◦ GPA: 3.894/4.0 Average Score: 92.5/100

## PUBLICATIONS & PREPRINTS

- K. Mukhi, C. Qu, P. You, and A. Abate. [Distributionally robust aggregation of electric vehicle flexibility](#), 2024 (in submission, won **Best Poster Award** in DTU PES Summer School 2024)

## RESEARCH PROJECTS (ONGOING)

- **Hybrid Transfer Reinforcement Learning: Provable Sample Efficiency From Shifted-dynamics Data** 2024  
Instructor: Laixi Shi, Kishan Panaganti Badrinath; Advisor: Adam Wierman
- **Distributionally Robust Online Pricing with Price-aware Demand** 2024  
Advisor: Pengcheng You

## HONORS AND AWARDS

- NSFC 1st Youth Student Basic Research Grant 2023
- National Scholarship (Top undergraduate student award) 2023
- Pacemaker to Merit Student, Peking University 2023
- The First Prize in 14th National Zhou Peiyuan Mechanics Competition (Top 0.3%) 2023
- Merit Student, Peking University 2022
- The First Prize in 37th Chinese Physics Olympiad (Jiangsu Province) 2020
- The First Prize in 34th Chinese Chemistry Olympiad (Jiangsu Province) 2020
- The First Prize in 36th Chinese Maths Olympiad (Jiangsu Province) 2020

## TEACHING EXPERIENCE

- **Principle of Economics** Spring 2024  
TA, National School of Development, Peking University
- **International Trade** Spring 2024  
TA, National School of Development, Peking University

## INVITED TALKS

- **Hybrid Transfer Reinforcement Learning: Provable Sample Efficiency of Shifted-dynamics Data** Sep. 2024  
ORSC Data Science 2024
- **Distributionally robust Aggregation of Electric Vehicle Flexibility** Mar. 2024  
School of Data Science, The Chinese University of Hong Kong, Shenzhen

## ADDITIONAL INFORMATION

**Programming Skills:** C++, Python, MATLAB, CUDA

**Leadership:** President of the Jiangsu Cultural Association, Peking University

## REFERENCES

1. **Adam Wierman**  
Carl F Braun Professor, Department of Computing and Mathematical Sciences  
California Institute of Technology  
Email: adamw@caltech.edu
2. **Pengcheng You**  
Assistant Professor, Department of Industrial Engineering and Management  
Peking University  
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