

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 **Rank: 1/39**

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 From 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**
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California Institute of Technology
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2. **Pengcheng You**
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