

Hao Hao

Carnegie Mellon University
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RESEARCH INTEREST Robust optimization, continuous optimization with applications in supply chain management and machine learning.

EDUCATION **Carnegie Mellon University, Heinz College**
Ph.D., Operations Research 2021 - 2026
Carnegie Mellon University, College of Engineering
M.S., Advanced Infrastructure Systems 2019 - 2021
Imperial College London
M.Eng., Electrical and Electronic Engineering (First-Class Honours) 2015 - 2019

JOB MARKET PAPER **Robust Paths: Geometry and Computation**
Hao Hao and Peter Zhang
Under review at Operations Research
- **First Place, 2025 George Nicholson Student Paper Competition**
- **Winner, 2025 INFORMS Computing Society (ICS) Student Paper Award**

WORKING PAPERS **Assessing and Explaining the Efficiency of Urban Transportation Networks**
with Hai Wang and Peter Zhang
To be submitted to Transportation Science

Submodular Learning for Risk-aware Prediction-Optimization: Applications in Distributed Healthcare
with Peiyu Wang, Shuwei He, Holly Wiberg, and Peter Zhang
Under preparation

TEACHING **Teaching Assistant**, Heinz College, Carnegie Mellon University
Decision Analytics for Business and Policy 2023, 2024
Decision Making under Uncertainty 2024, 2025
Unstructured Data Analytics 2024

PRESENTATIONS **Robust Paths: Geometry and Computation**
INFORMS Annual Meeting 2025
YinzOR, Flash Talk Competition, Carnegie Mellon University 2025
INFORMS Annual Meeting 2024

Assessing and Explaining the Efficiency of Urban Transportation Networks
INFORMS Annual Meeting 2024

INFORMS Annual Meeting	2023
Canadian Operations Research Society Annual Conference	2021

PROFESSIONAL SERVICES Reviewer for Operations Research, Transportation Science Journals
Session Chair, 2022 INFORMS Annual Meeting
Co-Organizer, OR PhD Student Seminar, Heinz College, Carnegie Mellon University

AWARDS First Place, George Nicholson Student Paper Competition 2025
Winner, INFORMS Computing Society (ICS) Student Paper Award 2025
Winner, George Duncan Award for Excellence in Doctoral Studies for the Second Research Paper, Heinz College, Carnegie Mellon University 2025
Recipient, TCS Presidential Fellowship at Carnegie Mellon University 2022-2023

ADDITIONALS **Programming:** Python
Interests: Bouldering, running, cooking