

Hao Hao

Carnegie Mellon University
Heinz College of Information Systems and Public Policy
haohaocmu.github.io
haohao@andrew.cmu.edu
+1 (724) 931-6266

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

ADDITTONALS **Programming:** Python

Interests: Bouldering, running, cooking