Shuyi Chen

CONTACT **Email**: shuyic@alumni.cmu.edu   **Website**: https://shuyiryanchen.github.io/

EDUCATION **Carnegie Mellon University** Pittsburgh, PA
PhD in Information Systems Management 2024 – 2029 (*expected*)
Master in Information Systems Management (Highest Distinction) 2021 – 2023
Courses: Introduction to Machine Learning (PhD); Statistical Methods in Machine Learning (PhD); Advanced NLP (PhD); Causal Inference; Introduction to Deep Learning; Distributed Systems.

The Chinese University of Hong Kong, Shenzhen Shenzhen, China
B.B.A (Hons.) in Global Supply Chain and Logistics Management 2017 – 2021
First Class Honours; CUHK Presidential Award (top 10 of Class 2021)
Courses: Statistical Inference; Probability and Stochastic Process; Probability and Statistics; Operations Management; Data Structure; Quantitative Policy Analysis; Supply Chain Risk Management.

RESEARCH
INTEREST
I am interested in building robust, responsible, and fair machine learning models and decision making processes.

PUBLICATIONS **Decision-Focused Learning for Combinatorial Optimization in Power Hardening Decision** [Poster]
Shuyi Chen*, Shixiang Zhu.
A short version has been accepted by INFORMS Workshop on Data Science, 2024.

Counterfactual Fairness through Transforming Data Orthogonal to Bias [PDF]
Shuyi Chen*, Shixiang Zhu.
A short version has been accepted by INFORMS Workshop on Data Mining and Decision Analytics, 2024.

Uncertainty-Aware Robust Learning on Noisy Graphs [PDF] [Poster]
Shuyi Chen*, Kaize Ding, Shixiang Zhu.
A short version has been accepted by New Frontiers in Graph Learning Workshop at NeurIPS, 2023.

API-Assisted Code Generation for Question Answering on Varied Table Structures [PDF] [Poster]
Yihan Cao*, Shuyi Chen*, Ryan Liu* (*equal contribution), Zhiruo Wang, Daniel Fried.
EMNLP, 2023.

HONORS &
SCHOLARSHIPS
INFORMS Student Scholarship, INFORMS Workshop on Data Science 2024
Research Sponsorship, PwC Technology Impact Office and CMU Digital Transformation Center 2023
CUHK Presidential Award for Outstanding Student (for top 10 of 1200 graduates) 2021

ACADEMIC
SERVICE
PC Memeber 2024
INFORMS Workshop in Data Science

Reviewer 2023-2024
ICLR 2025; NeurIPS 2024; KDD 2024; Journal of Agricultural, Biological, and Environmental Statistics 2023