

GONGYU CHEN

chgongyu@umich.edu |(734)-272-5050

Education **University of Michigan**, Ann Arbor, MI
MSE in Industrial & Operations Engineering; expected completion, May 2023. GPA: 4.00/4.00

University of Michigan, Ann Arbor, MI
BSE in Industrial & Operations Engineering, Summa Cum Laude; May 2021. GPA: 3.97/4.00
Minor in Mathematics

Shanghai Jiao Tong University, Shanghai, China
BSE in Electrical & Computer Engineering; Aug 2021. GPA: 3.53/4.00
Minor in Entrepreneurship

Publications and Preprints

Gongyu Chen, Xinyu Fei, Huiwen Jia, Xian Yu, and Siqian Shen, "The University of Michigan Implements a Hub-and-Spoke Design to Accommodate Social Distancing in the Campus Bus System under COVID Restrictions," to appear in *INFORMS Journal on Applied Analytics*, 2022. [[link](#)]

Mingjie Bi, **Gongyu Chen**, Dawn M. Tilbury, Siqian Shen, and Kira Barton, "A Model-based Multi-agent Framework to Enable an Agile Response to Supply Chain Disruptions", to appear in *2022 IEEE 18th International Conference on Automation Science and Engineering (CASE)*, 2022. [[link](#)]

Sheng Qiao, **Gongyu Chen**, and Pradeep Ray, "Applicability of Business Model Canvas in the Context of Entrepreneurship in Asia: A Systematic Literature Review," in *Technology Entrepreneurship and Sustainable Development* (edited by Pradeep Ray and Rajib Shaw), Springer, Singapore, 2022. [[link](#)]

Research Experience

2022
(Summer) **Federated Learning of Gaussian Graphical Models**
Supervised by Prof. Salar Fattahi, University of Michigan

- Developing a federated framework for learning sparse Gaussian graphical models.

Teaching Experience

2022
(Winter) *Graduate Student Instructor*, Introduction to Optimization Methods (IOE 310)
Supervised by Prof. Amy Cohn, University of Michigan

- Taught 2 lectures and designed a problem set on Python implementation of LP models.
- Held regular office hours, graded homework, and drafted sample solutions, for 80 students.
- Evaluated by students above college-wide median: Q1= 4.9/5.0, Q2 = 4.6/5.0, Q3 = 4.8/5.0, Q4 = 4.7/5.0, 35/80 responded; and won a departmental outstanding GSI award.

2020
(Fall) *Instructional Aide*, IOE Data Analytics Help Desk
Supervised by Prof. Eunshin Byon, University of Michigan

- Developed and delivered prerecorded tutorials for R programming in IOE context.
- Provided assistance to students through weekly office hours and emails.

Honors and Awards

Apr 2022 *Joel and Lorraine Brown Outstanding GSI Award*, Industrial & Operations Engineering, University of Michigan

Aug 2020 *Roger King Scholarship*, College of Engineering, University of Michigan

2019 - 2022 2 times *James B. Angell Scholar* and 3 times *University Honors*, University of Michigan

2019 - 2021 2 times *Dean's List*, College of Engineering, University of Michigan

Skills *Programming*: C/C++, Python, LaTeX, R, Matlab, SQL, VBA
Optimization: Gurobi, CVX, Pyomo
Software: Mathematica, SPSS, ProModel