Wu Hao

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EDUCATION

Ph.D. Student in Analytics and Operations, NUS Business School, Singapore Aug 2021 – Present
M.S. Operations Research, Georgia Institute of Technology, Atlanta, U.S., GPA: 3.9/4.0 Aug 2019 – Dec 2020
B.S. Industrial Engineering, University of Wisconsin–Madison, WI, U.S., GPA:3.9/4.0 Sept 2014 – Dec 2018
Study Abroad, Munich University of Applied Sciences, Munich, Germany, GPA: 4.0/4.0 Mar – July 2017

PUBLICATION

Hao, W., & Martin, L. (2022). Prohibiting cherry-picking: Regulating vehicle sharing services who determine fleet and service structure. *Transportation Research Part E: Logistics and Transportation Review*, *161*, 102692.

RESEARCH EXPERIENCE

Optimizing Profitability for Ride-hailing Services May 2020 – Aug 2021
Masters degree research project, supervised by Layla Martin, Assistant Professor for Transportation and Logistics, Operations, Planning, Accounting and Control group, Eindhoven University of Technology, The Netherlands; Member of the Eindhoven Artificial Intelligence Systems Institute

- Conducted joint service region, service level, and fleet dimension selection in a ride-sharing system, with a focus on studying interactions of the above strategic and operational decisions under external regulations for optimal fleet design and their influences on societal welfare.

Research on China's Birth Rate and its Determinant Factors Jan – May 2020
Masters degree course project

- Applied regression analysis for building prediction models of birth rate in China.
- Identified leading predictors of the model and discussed their impacts on government policies.

Research on Cross Training in Manufacturing Sept – Dec 2017
Undergraduate Research Assistant, supervised by Professor Ananth Krishnamurthy, University of Wisconsin-Madison

- Applied Simio to investigate cross-training effects on manufacturing.
- Developed strong skills in simulation model design and construction, and output analysis.

Future Energy: MVG-Pedelec Mar – July 2017
Undergraduate degree project, supervised by Professor Ackermann and Professor Burnett, Munich University of Applied Sciences

- Collaborated with Munich Transport Corporation (MVG) on applying inductive charging for pedelecs-electric driven bikes-in public transportation systems.
- Selected potential station locations with traveling time analysis and optimization model.
- Used Sketchup and 3D printing to design and prototype a wireless charging holder.
- Coordinated cross-disciplinary team communications and presented the result to the public.

WORK EXPERIENCE

Guangdong LBest Intelligent Technology Co., Ltd. Mar – Jul 2019
Assistant Industrial Engineer - Guangzhou, China

- Managed daily operations of product assembly lines, including time analysis, site visits, and bottleneck checks to increase manufacturing efficiency.
- Introduced new products to existing workshops.
- Designed tools and spare parts to improve production and product performances with prototypes.

AWARDS AND HONORS

- Dean's List 2014-2015
- Dean's Honor List 2015-2018

SKILLS/CERTIFICATE

Computer Python, MATLAB, Simio, Arena, Minitab, R, AMPL, Lingo, Gurobi, Visio, SketchUp, Creo, CAD, Latex
Languages Mandarin, English, German, Cantonese
Industry Certificate LEAN Six Sigma Green Belt