

Jian Wu

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EDUCATION	University of Hong Kong, Hong Kong SAR 2015 - 2019 <ul style="list-style-type: none">B.Eng in Industrial Engineering, cGPA: 3.7/4.0, major GPA: 3.96/4.0Bachelor's thesis: "Dynamic Pricing for Electric Vehicle Sharing" University of Wisconsin-Madison, Madison, WI, US Jan - May 2018 <ul style="list-style-type: none">International Academic Programs (IAP), GPA: 4.0/4.0 Hangzhou No.2 High School, Hangzhou, Zhejiang, China 2012 - 2015 <ul style="list-style-type: none">The 2nd Prize in National Physics Olympiad (CPhO), 2013 & 2014
RESEARCH INTERESTS	I am broadly interested in queueing theory, stochastic programming, fluid models, and their applications in planning and revenue management of supply chain, transport and energy systems.
PUBLICATION	Wu, Jian, et al. (2019). A Continuous Model for Electric Vehicle Sharing with Battery Degradation. [Extended Abstract]. <i>The Tenth Triennial Symposium on Transportation Analysis (TRISTAN)</i> <i>Summary:</i> <ul style="list-style-type: none">We propose an integrated model for EV sharing systems design in a continuous 2D space. This model aims to optimize the system design considering the joint impact of battery charging and degradation, hence provides decision support on the charge station deployment, fleet balancing operations, and the battery charging and replacing policy. An analytical solution is developed by applying optimal transport theory to a network fluid model in the continuous space.We are extending the work for a journal article, which may be submitted to Transportation Science.
CONFERENCE	Smart Airport - Technovation Conference & Exhibition 2018 Nov 2018
RESEARCH EXPERIENCE	Final Year Research, IMSE, University of Hong Kong Sept 2018- Present Project: Dynamic Pricing for Electric Vehicle Sharing <ul style="list-style-type: none">Investigated the revenue management problem in EV sharing system and proposed a queueing network model incorporates robust vehicle reposition and dynamic pricing to maximize the system profit. Core Member, Smart City Datathon 2018 Oct 2018 Project: AirGo - Airport Internal E-Commerce System <ul style="list-style-type: none">Won the Second Runner-up (20,000 HKD) and was invited to the final round of Cyberport Creative Micro Fund ProgramCleaned more than 1 million passenger flow data in the Hong Kong International Airport and identified optimal storage station deployment based on the flow Research Assistant, ISyE, UW-Madison May - Aug 2018 Project: Electric Vehicle Sharing with Battery Degradation Advisor: Dr. Xin Wang <ul style="list-style-type: none">Proposed a EV sharing model in the continuous space and creatively applied optimal transport theory to develop an analytical solution for the fluid approximation formulation.

	Team Leader, Maritime & Logistics Hackathon 2017 Dec 2017 Project: A Maritime Information and Tracking Platform <ul style="list-style-type: none"> • Won the Champion (top 5%) and a prize of 50,000HKD • Developed a platform to evaluate logistics companies' performance
	Research Helper, IMSE, University of Hong Kong Jan - Jun 2017 Project: A Column Generation-based Algorithm for Energy Minimization Vehicle Routing Problem Advisor: Dr. J.W.Wang <ul style="list-style-type: none"> • Investigated EMVRP and independently implemented a brand-cut-and-pricing algorithm using column generation.
AWARDS AND HONORS	China Soong Ching Ling Foundation <ul style="list-style-type: none"> • China Soong Ching Ling Foundation Scholarships 2015-2019
	University of Hong Kong <ul style="list-style-type: none"> • Dean's Honours List 2016-2017 • Lee Shau Kee Scholarships for student enrichment 2018
	University of Wisconsin-Madison <ul style="list-style-type: none"> • Exchange & Visiting International Student Academic Excellence award 2018 – <i>A recognition for exchange and Visiting International Student Program participants who excelled in their coursework on UW-Madison campus.</i>
	Asian Institute of Supply Chains & Logistics <ul style="list-style-type: none"> • 2nd Runner-up, Smart City Datathon 2018 (13%) Oct 2018 • Champion, Maritime & Logistics Hackathon 2017 (5%) Dec 2017
SERVICE EXPERIENCE	Student Mentor 2018 - 2019 Faculty of Engineering, The University of Hong Kong <ul style="list-style-type: none"> • Counseled fresh undergraduates on their academic plans and program selection
	Chairperson 2017 - 2018 Industrial Engineering Association, The University of Hong Kong <ul style="list-style-type: none"> • Organized student activities and maintained and external relationships.
	Technician & Volunteer Jun - Jul 2016 Beyond the Pivot Africa Volunteer Program, Ghana <ul style="list-style-type: none"> • Designed and constructed a lavatory in Wa, Ghana • Conducted a woman empowerment program in the local community.
WORK EXPERIENCE	Undergraduate Teaching Assistant Sept 2018 - Present The University of Hong Kong, Hong Kong SAR <ul style="list-style-type: none"> • IMSE2134 Operational Research, Fall 2018
	Digital Marketing Analyst Jul 2017 Kong Sing Manufactory Co., Ltd, Hong Kong SAR <ul style="list-style-type: none"> • Launched Kong Sing's new website and maintained the social media presence.
	Job Shadowing Jun 2016 Sysmex Corporation, Kobe, Japan
SKILLS	Languages: C/C++, Python, MATLAB, Julia, R, Bash Script, VBA Software: ILOG CPLEX, Gurobi, Mosek, CLP, CBC Others: L ^A T _E X, Git, Linux, Bash, Markdown, HTML, CSS, Arduino