

Jian Wu

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RESEARCH INTERESTS

I am broadly interested in analysis, modelling and optimization of sustainable operations and service planning, especially in transport, logistic and supply chain systems. I would love to advance my understanding in integrated system planning and control, through PhD study at a remarkable institution.

EDUCATION

University of Hong Kong, Hong Kong SAR 2015 - 2019

B.Eng in Industrial Engineering, Minor in Computer Science, cGPA: 3.70/4.0

Bachelor's thesis: "Dynamic Pricing for Electric Vehicle Sharing"

Related Courses: Statistical analysis A+, Systems modeling and simulation A+, Programming technologies and tools A+, Operational research A+, Operations planning and control A+

University of Wisconsin-Madison, Madison, WI, US

Jan - May 2018

International Academic Programs (IAP), GPA: 4.0/4.0

Related Courses: Intro to optimization A, Intro to Stochastic Process A, Discrete mathematics A

Hangzhou No.2 High School, Hangzhou, Zhejiang, China

2012 - 2015

The Academic Test: straight A's, the 2nd Prize in National Physics Olympiad (CPhO)

PUBLICATION

A Continuous Model for Electric Vehicle Sharing with Battery Degradation. *Extended abstract submitted to TRISTAN 2019* (with Feng Ju and Xin Wang).

Summary: 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, which provides fruitful managerial insights.

CONFERENCE

Smart Airport - Technovation Conference & Exhibition 2018

Nov 2018

ACADEMIC EXPERIENCE

Research Assistant

May - Aug 2018

Industrial & Systems Engineering, UW-Madison, WI

Working on "Electric Vehicle Sharing with Battery Degradation" Research. Supervised by: Dr.Xin Wang

Undergraduate Teaching Helper

Sept - Dec 2018

The University of Hong Kong, Hong Kong SAR

IMSE2134 Operational Research,

Fall 2018

Student Research Helper

Jan - Jun 2017

IMSE Department, Faculty of Engineering, The University of Hong Kong

Working on "Energy Minimization Vehicle Routing Problem" Research. Supervised by: Dr. J.W.Wang

AWARDS AND HONORS	University of Hong Kong	
	Dean's Honours List	2016-2017
	China Soong Ching Ling Foundation Scholarships	2015-2019
	Lee Shau Kee Scholarships for student enrichment	2018
	University of Wisconsin-Madison	
	Exchange & Visiting International Student Academic Excellence award	Jun 2018
	<i>A recognition for exchange and Visiting International Student Program participants who excelled in their coursework on campus.</i>	
	Asian Institute of Supply Chains & Logistics	
	2 nd Runner-up, Smart City Datathon 2018	Oct 2018
	Champion, Maritime & Logistics Hackathon 2017	Dec 2017
	<i>Competing with 20 undergraduate & postgraduate teams from top Asian universities</i>	
UNIVERSITY SERVICE	Student Mentor	
	Faculty of Engineering, The University of Hong Kong	2018 - 2019
	Counsel fresh undergraduates on engineering programs, academic plans and school life.	
	Chairperson	
	Industrial Engineering Association, The University of Hong Kong	2017 - 2018
	Organizing student activities and maintaining internal and external relationships.	
OTHER EXPERIENCE	Digital Marketing Analyst	
	Kong Sing Manufactory Co.,Ltd, Hong Kong SAR	Jul 2017
	Launching Kong Sing's new website and maintaining the social media presence.	
	Technician & Volunteer	
	Beyond the Pivot Africa Volunteer Program, Ghana	Jun - Jul 2016
	Implementing lavatory CAD design and planning, and managing a team of 20 volunteers.	
	Job Shadowing	
	Sysmex Corporation, Kobe, Japan	Jun 2016
SKILLS	<i>Languages: C/C++, Python, MATLAB, Julia, R, Bash Script, VBA</i>	
	<i>Others: L^AT_EX, Git, Linux, Bash, Microsoft Office, Markdown, HTML, CSS, Arduino</i>	
	<i>Solvers: Cplex, Gurobi, CLP, CBC</i>	
REFEREES	Xin Wang , Assistant Professor	
	University of Wisconsin-Madison	
	+1 (608) 890-3913, xin.wang@wisc.edu	
	George G.Q. Huang , Chair Professor	
	University of Hong Kong	
	+852 2859 2588, gqhuang@hku.hk	
	Feng Ju , Assistant Professor	
	Arizona State University	
	+1 (480) 965-1746, fengju@asu.edu	
	J.W. Wang , Assistant Professor	
	University of Hong Kong	
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