

# Mingfei Jiang

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## EDUCATION

### The University of Hong Kong, Hong Kong, China

Incoming PhD

PhD in Innovation and Information Management (Business School, Operations Management track)

### The University of Hong Kong, Hong Kong, China

Sept 2023- July 2024

MSc in Economics (Data Stream)

**Core Courses:** Microeconomic Analysis, Macroeconomic Analysis, Applied Econometrics, Digital Economy and Big Data Analysis, Causal Inference, Introduction to Nudging and A/B Testing

### Beijing Institute of Technology, Beijing, China

Sept 2019- June 2023

B.Sc. in Mechanical and Electrical Engineering (Intelligent Mechatronical System Experimental Classes)

**Overall GPA:** 92/100 **Ranking:** Top 1 of 20 in the major

**Core Courses:** Mathematical Analysis I 92, Mathematical Analysis II 96, Linear Algebra 97, Probability and Mathematical Statistics 98, Complex Function and Integral Transform 95, Optimization Theory and Application 91

## PUBLICATIONS

### Design of Self-Organizing Systems Using Multi-Agent Reinforcement Learning and the Compromise Decision Support Problem Construct

Aug 2023

- First author paper accepted by *IDETC-CIE 2023*.
- First author paper accepted by the *ASME Journal of Mechanical Design* (IF=3.3).
- Designed the reinforcement learning method (MADDPG) to train robots pushing boxes to simulate multi-robot cooperation.
- Proposed the cDSP (Compromise Decision Support Problem) construct for multi-objective optimization.

### Perception-Aware Motion Control of Multiple Aerial Vehicle Transportation Systems

Dec 2022

- First author paper accepted by *ICCSIP 2022*.
- Created a perception model in mathematical theory for Multiple Aerial Vehicle Transport Systems.
- Proposed the combination of dynamic constraints to jointly optimize multi-information fusion-aware flight paths.

### From Automation to Intelligence: Self-organizing Systems

Aug 2022

- NSF/ASME Student Design Essay Competition Winner.
- First author essay for poster presented at *IDETC-CIE 2022*.

## OTHER RESEARCH EXPERIENCES

### Corporate Transactions and Policy Implications | University of Hong Kong | Research Assistant

Dec 2023- Mar 2024

- Designed program code for organizing and processing data on business transactions.
- Developed program code for cross-comparison of policy impacts.

### Data-Driven Prescriptive Analysis | Beijing Institute of Technology | Capstone Project

Sep 2022 – Jun 2023

- Predicted the demand for electricity from the grid based on past data and various ancillary data.
- Designed the decision problems to optimize the economics of power supply based on prescriptive analysis.
- Received an excellent grade (A+) in the dissertation defense.

## SCHOLARSHIP AND AWARDS

1. National Scholarship (Twice)	Highest Scholarship for Chinese UG student	2020, 2021
2. Distinguished College Student Graduating in Beijing	Highest Merit for UG student in Beijing	2023
3. COMAP Interdisciplinary Contest In Modeling	Finalist (Top 1%)	2021
4. Math Competition for College Students (Beijing)	Second prize	2021
5. Math Competition for High School Students (Beijing)	Second prize	2018

## SKILLS

Programming Languages: Python, R

Language Proficiency: IELTS 7, GMAT 655

Hobbies: Tennis, Photography