Jian Gao

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EDUCATION

UCLA Anderson School of Management   09/2019-06/2024 (expected)
- **Anticipated Degree:** Ph.D. in Management
- **Supervisors:** Professor Francisco Castro and Professor Sébastien Martin
- **Dissertation Topic**: Supply Management in Hybrid Marketplaces
- **GPA:** 3.94/4.0

University of Toronto   09/2017 – 04/2019
- **Degree:** Master of Applied Science in Operations Research
- **Thesis:** Non-stationary multi-armed bandit problem
- **Supervisor:** Professor Chi-Guhn Lee

University of Toronto   09/2013 – 04/2017
- **Degree:** Honors Bachelor of Science; Specialist in Economics & Mathematics, Major in Statistics
- **GPA:** 3.92 / 4.0

RESEARCH

Research Interests

Human-AI interaction, Gig economy, Machine Learning, Market Design, Information Design

Submitted/Working Papers
- **Human-AI Interactions and Societal Pitfalls** (job market paper) (2023)
  Francisco Castro, Jian Gao, Sébastien Martin
  Submitted to *Science*
- **Autonomous Vehicles in Ride-Hailing and the Threat of Spatial Inequalities** (2023)
  Francisco Castro, Jian Gao, Sébastien Martin
  In preparation for submission to MSOM
- **Supply Prioritization in Hybrid Marketplaces** (2023)
  Francisco Castro, Jian Gao, Sébastien Martin
  Working paper

TEACHING EXPERIENCE

Teaching Assistant, UCLA Anderson School of Management
- MGMTMSA 406 - Prescriptive Models & Data Analytics (Master of Business Analytics)
  Instructor: Professor Francisco Castro   Winter 2023, Winter 2022
    - Held weekly office hours answering questions related to homework and course materials
    - Graded homework assignments and exams
- MGMTEX 410 - Operations and Technology Management (Executive MBA)
  Instructor: Professor Christopher S. Tang   Winter 2023, Winter 2022
    - Provided review sessions for students on course materials
    - Graded case studies and homework assignments
- MGMTFE 410 - Operations and Technology Management (Full-Time MBA)
  Instructor: Professor Francisco Castro   Fall 2020
    - Graded case studies and homework assignments
- MGMTMSA 401 - Machine Learning and Decision Making (Master of Business Analytics)
  Instructor: Professor Uri Maoz   Fall 2020
    - Designed assignments on course materials using Python and Tensorflow

- o Held weekly sessions introducing programming in Python and Tensorflow, and answering questions related to assignments and course material
  - o Graded homework assignments

Teaching Assistant, University of Toronto
- STA447H1 - Stochastic Process (Undergraduate/Graduate course)
  Instructor: Professor Jeffrey S. Rosenthal   Winter 2018
  - o Graded homework assignments and exams
- STA347H1 – Probability (Undergraduate/Graduate course)
  Instructor: Professor Gun Ho Jang   Fall 2017
  - o Graded homework assignments and exams

Tutor, Easy4.0 (*Education company in Toronto*)   06/2015 - 12/2016
- Provided lectures of Macroeconomics for over 50 students of the University of Toronto.

PRESENTATIONS

Autonomous Vehicles in Ride-Hailing and the Threat of Spatial Inequalities
- INFORMS Annual Conference, Indianapolis, IN   10/2022
- POMS Annual Conference, Online   04/2022
- INFORMS Annual Conference, Online   10/2021
- INFORMS Revenue Management and Pricing Conference, Online   06/2021
- MSOM Annual Conference, Online   06/2021
- Marketplace Innovation Workshop, Online   05/2021

Supply Prioritization in Hybrid Marketplaces
- INFORMS Revenue Management and Pricing Conference, Online   06/2022

PROFESSIONAL EXPERIENCE

Amazon, New York, NY   09/2022 – 12/2022
Research Scientist Intern – Supply Chain Optimization Team
- Designed and implemented a large scale optimization algorithm to address a labor constrained problem within Amazon's supply chain. Implemented tests and demonstrated that the new solution can deliver a 10% weekly cost reduction compared to the previously used method.
- Implemented a mirror descent algorithm to address an online resource allocation problem.

EXTRACURRICULAR ACTIVITIES

University of Toronto Mandarin Debate Association   2014 – 2015
President

University of Toronto Summer Abroad Program at University of Hong Kong, 06/2014 – 07/2014
Summer Student Participant

HONORS/ AWARDS

Four-year Ph.D. Fellowship, UCLA Anderson School of Management.	2019-2023
UCLA Anderson DOTM Area Travel Grant	2022
Easton Technology Management Center Grant, UCLA	2021
Dean's List Scholar, Toronto	2014-2016
The Nanda Choudhry Prize in Economics (Year II), Toronto	09/2015
New College Council In-Course Scholarship, Toronto	2014-2015

SKILLS & INTERESTS

Computer Skills: Python, R, LaTeX, Julia, MATLAB, Tensorflow, Pytorch, Gurobi, Linux/bash, VBA, Photoshop and Office
Languages: Mandarin (native), English (fluent)

References

Francisco Castro, Ph.D.
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Technology Management
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Optimization Technology (SCOT) at Amazon;
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