

## Jian Gao

+1 310-729-6667 | [jian.gao.phd@anderson.ucla.edu](mailto:jian.gao.phd@anderson.ucla.edu) | 110 Westwood Plaza, Los Angeles, CA 90095

### EDUCATION

---

**UCLA Anderson School of Management** 09/2019-06/2024 (expected)

- **Anticipated Degree:** Ph.D. in Management
- **GPT:** 3.94/4.0
- **Supervisors:** Professor Francisco Castro and Professor Sébastien Martin
- **Dissertation Topic:** Supply Management in Hybrid Marketplaces
- **Dissertation Committee:** Francisco Castro (chair), Charles Corbett, Sébastien Martin, and Christopher S. Tang
- **Candidacy Awarded:** June 10, 2022

**University of Toronto** 09/2017 – 04/2019

- **Degree:** Master of Applied Science; operation research.
- **Thesis:** Non-stationary multi-armed bandit problem
- **Supervisor:** Professor Chi-Guhn Lee

**University of Toronto** 09/2013 – 04/2017

- **GPA:** 3.92 / 4.0
- **Degree:** Honors Bachelor of Science; Specialist in Economics & Mathematics, Major in Statistics

### RESEARCH

#### Research Interests

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

#### Submitted/Working Papers

- **Human-AI Interactions and Societal Pitfalls** (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
  - Held weekly sessions introducing programming in Python and Tensorflow, and answering questions related to assignments and course material
  - Graded homework assignments

#### Teaching Assistant, University of Toronto

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

#### Tutor, Easy4.0 (*Education company in Toronto*) 06/2015 - 12/2016

- Provide lectures of Macroeconomics for over 50 undergraduate students of University of Toronto.
- Design 40-page review packages before each lecture.

#### 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 and tested 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.  
Assistant Professor, Decisions Operations and  
Technology Management  
UCLA Anderson School of Management  
[francisco.castro@anderson.ucla.edu](mailto:francisco.castro@anderson.ucla.edu)  
(646) 552-8479

Charles Corbett, Ph.D.  
Professor, Decisions Operations and Technology  
Management  
UCLA Anderson School of Management  
[charles.corbett@anderson.ucla.edu](mailto:charles.corbett@anderson.ucla.edu)  
(310) 825-1651

Christopher S. Tang, Ph.D.  
Distinguished Professor, Decisions Operations  
and Technology Management  
UCLA Anderson School of Management  
[chris.tang@anderson.ucla.edu](mailto:chris.tang@anderson.ucla.edu)  
(310) 825-4203

Sébastien Martin  
Assistant Professor of Operations  
Kellogg School of Management, Northwestern  
University  
[sebastien.martin@kellogg.northwestern.edu](mailto:sebastien.martin@kellogg.northwestern.edu)  
(510)-229-2758

Garrett van Ryzin  
VP/Distinguished Scientist, Supply Chain  
Optimization Technology (SCOT) at Amazon;  
Paul M. Montrone Professor Emeritus,  
Columbia Business School  
[ryzing@amazon.com](mailto:ryzing@amazon.com)  
914-329-6381