Craig Fernandes

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Academic Positions

The Wharton School, University of Pennsylvania
Lecturer, Operations, Information & Decisions — *Jul 2026 –*

Tuck School of Business, Dartmouth College
Visiting Doctoral Scholar — *Summer 2024*
Hosts: James Siderius and Raghav Singal

Education

University of Toronto
PhD, Operations Research — *Sep 2021 – Jan 2027*
Advisors: Timothy C.Y. Chan and Ningyuan Chen

MASc, Operations Research — *Jan 2020 – Aug 2021*
Advisor: Timothy C.Y. Chan

BASc, Industrial Engineering — *Sep 2014 – May 2018*

Research

Working Papers

Market Design for Conference Peer Review: Effort-Based Matching and Admission Control
Craig Fernandes, James Siderius, Raghav Singal
Major Revision, **Operations Research**, 2026.
- Accepted, ACM Economics and Computation (EC), 2025.

Estimating Distributions with Failure Rate Properties from Noisy Quantile Data
Timothy Chan, Ningyuan Chen, Craig Fernandes, Muhammad Maaz
Submitted, 2026.

Handicapping Strategies for Maximizing Participation in Amateur Darts Tournaments
Timothy Chan, Craig Fernandes, Rachael Walker
Working paper, 2026.
- First Place, MIT Sloan Sports Analytics Conference Paper Competition, 2024. [Video]
- Finalist, CORS Student Paper Competition (UG Category), 2023. [Awarded to Rachael Walker]

Data-Driven Pricing in Bargaining Markets
Timothy Chan, Ningyuan Chen, Craig Fernandes
Work in progress, 2026.

Operations Journals

Income Pools for Superstar Markets
Timothy Chan, Ningyuan Chen, Craig Fernandes
Management Science, 72(4): 2807–2825, 2025.
- First Place, CORS Student Paper Competition (Open Category), 2025.
- First Place, NUS Analytics for X Best Student Presentation, 2025.

Points Gained in Football: Using Markov Process-Based Value Functions to Assess Team Performance
Timothy Chan, Craig Fernandes, Martin Puterman
Operations Research, 69(3): 877–894, 2021.
– Media Coverage: INFORMS Analytics Magazine.

Education Journals

Moneyball for Murderball: Using Analytics to Construct Lineups in Wheelchair Rugby
Timothy Chan, Craig Fernandes, Albert Loa, Nathan Sandholtz
INFORMS Transactions on Education, 24(2): 175–181, 2023.
– First Place, INFORMS Case Competition, 2022.
– Media Coverage: ORMS Today.

Advising Student-Driven Analytics Projects: A Summary of Experiences and Lessons Learned
Aaron Babier, Craig Fernandes, Ian Zhu
INFORMS Transactions on Education, 23(2): 121–135, 2022.
– Media Coverage: ORMS Today.

Sports Analytics Journals

Equity, Diversity, and Inclusion in Sports Analytics
Craig Fernandes, Jason Vescovi, Richard Norman, Cheri Bradish, Nathan Taback, Timothy Chan
Journal of Quantitative Analysis in Sports, 20(2): 87–111, 2023.

A Markov Approach to Untangling Intention Versus Execution in Tennis
Timothy Chan, Doug Fearing, Craig Fernandes, Stephanie Kovalchik
Journal of Quantitative Analysis in Sports, 18(2): 127–145, 2022.
– Finalist, MIT Sloan Sports Analytics Conference Poster Competition, 2022.

Predicting Plays in the National Football League
Craig Fernandes, Ronen Yakubov, Yuze Li, Amrit Prasad, Timothy Chan
Journal of Sports Analytics, 6(1): 35–43, 2020.

TEACHING EXPERIENCE

Course Instructor
UofT MIE368: Analytics in Action, (Rated 4.55/5) *Fall 2023*

Teaching Assistant
UofT MIE263: Stochastic Operations Research, (Rated 4.78/5) *Winter 2023, 2024, 2025, 2026*
UofT MIE368: Analytics in Action, (Rated 4.86/5) *Fall 2020, 2021, 2022*
– MIE Teaching Assistant Award, 2022
– MIE Group Teaching Assistant Award, 2020

Invited Seminars

Academic

Sloan School of Management (MIT)	*Jan 2026*
Darden School of Business (Virginia)[†]	*Jan 2026*
Zicklin School of Business (Baruch College)[†]	*Dec 2025*
HKUST Business School[†]	*Dec 2025*
NUS Business School[†]	*Dec 2025*
The Wharton School (UPenn)	*Dec 2025*
IESE Business School	*Dec 2025*
London Business School	*Dec 2025*
Imperial Business School	*Dec 2025*
UCL School of Management	*Dec 2025*
Mendoza College of Business (Notre Dame)	*Nov 2025*
Rotman Young Scholar Seminar (Toronto)	*May 2025*
Tuck School of Business (Dartmouth)	*Jul 2024*

[†] Cancelled due to logistics.

Industry

Teamworks Intelligence (formerly Zelus Analytics)	*Feb 2026*

Conference Presentations

INFORMS Annual Meeting	*2022–2026*
INFORMS RMP	*2023, 2025, 2026*
Marketplace Innovation Workshop (MIW)	*2025, 2026*
NUS Next-Gen Scholar's Symposium	*2025*
ACM Economics and Computation (EC)	*2025*
INFORMS MSOM	*2023, 2025*
CORS Annual Meeting	*2018, 2021, 2022, 2025*
MIT Sloan Sports Analytics Conference	*2022, 2024*
New England Symposium on Statistics in Sports	*2017, 2021, 2023*

Service

Reviewer

Management Science
Manufacturing & Service Operations Management

Session Chair

INFORMS Annual Meeting (Revenue Management)	*2025, 2026*
CORS Annual Meeting (Revenue Management)	*2025*
CORS / INFORMS International (Sports Analytics)	*2022*

Scholarships

NSERC Postdoctoral Research Award ($140,000) [Declined]	*2026–2027*
NSERC Vanier CGS ($150,000)	*2023–2025*

– Canada's most competitive PhD scholarship (∼4% acceptance rate).

NSERC CGS Doctoral ($105,000) [Declined]	*2023–2025*

TD MDAL Research Grant ($4,000; $3,000) *2023; 2025*
Paul Cadario Fellowship in Global Engineering ($8,900) *2025*
NSERC CGS Michael Smith Foreign Study Supplement ($6,000) *2024*
Mitacs Globalink Research Award ($6,000) *2024*
Wallberg Research Fellowship ($7,500) *2022*
U of T SGS Conference Travel Grant ($800) *2022*
U of T MIE Conference Travel Grant ($650) *2022*
Ontario Graduate Scholarship ($15,000) *2021*
NSERC CGS Masters ($17,500) *2020*
U of T President's Entrance Scholarship ($5,000) *2014*

INDUSTRY

Amazon, Data Scientist I (Supply Chain Optimization Technologies) *Summer 2021*
PepsiCo, Process Improvement Engineering Intern *Summer 2017, 2019*

OTHER EXPERIENCE

St. Augustine's Seminary, Seminarian *Aug 2015 – June 2019*
I lived and studied in a seminary for four years, training to be a Catholic Priest. This involved 30 hours a week of communal and volunteer activities. I overloaded my engineering courses to earn the equivalent of a Minor in Philosophy as preparation for a Master of Divinity, completing one year, before following a different path.