

Craig Fernandes

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ACADEMIC POSITIONS

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

Under Review, 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

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

[†] Cancelled due to logistics.

Industry

Teamworks Intelligence (formerly Zelus Analytics)	<i>Feb 2026</i>
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CONFERENCE PRESENTATIONS

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

SERVICE

Reviewer

Management Science
Manufacturing & Service Operations Management

Session Chair

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

SCHOLARSHIPS

NSERC Postdoctoral Research Award (\$140,000) [Declined]	<i>2026–2027</i>
NSERC Vanier CGS (\$150,000) – Canada's most competitive PhD scholarship (~4% acceptance rate).	<i>2023–2025</i>
NSERC CGS Doctoral (\$105,000) [Declined]	<i>2023–2025</i>

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)	<i>Summer 2021</i>
PepsiCo , Process Improvement Engineering Intern	<i>Summer 2017, 2019</i>

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.