

CONTACT	Industrial Systems Engineering & Management National University of Singapore	E-mail: bolin@nus.edu.sg Website: lin-bo.github.io
EDUCATION	Ph.D., Operations Research, University of Toronto	2025
	M.A.Sc., Operations Research, University of Waterloo	2020
	B.Eng., Construction Management (Minor in Finance), Tsinghua University	2018
CURRENT POSITIONS	National University of Singapore , Singapore Assistant Professor, <i>Industrial Systems Engineering & Management</i> Faculty Affiliate, <i>Institute of Operations Research & Analytics</i>	2026 – 2026 –
	Singapore-MIT Alliance for Research and Technology , Singapore Associate Principal Investigator, <i>Mens, Manus, and Machina</i>	2026 –
PREVIOUS POSITIONS	Massachusetts Institute of Technology , Cambridge, MA, USA Visiting Scholar, <i>Sloan School of Management</i>	2026
	University of Toronto , Toronto, ON, Canada Visiting Fellow, <i>Joseph L. Rotman School of Management</i>	2025 – 2026
	Vector Institute , Toronto, ON, Canada Affiliated Researcher	2022 – 2025
	Mila – Québec AI Institute , Montréal, QC, Canada Visiting Researcher	2023
	Uber Technologies , San Francisco, CA, USA Applied Scientist Intern, Core Analytics and Science	2023
SELECTED AWARDS	Research • Finalist, INFORMS Service Science Best Cluster Paper (Winner TBA) • Winner, INFORMS Innovative Application in Analytics Award • Winner, INFORMS George B. Dantzig Dissertation Award • Finalist, INFORMS Daniel H. Wagner Prize • Finalist, INFORMS Transportation Science & Logistics Best Student Paper • Runner-up, INFORMS Transportation Science & Logistics Best Dissertation • Winner, CORS Practice Prize • Winner, INFORMS Transportation Science & Logistics Best Student Paper • Finalist, INFORMS Service Science Best Cluster Paper	2026 2026 2025 2025 2025 2025 2025 2024 2024

- Finalist, INFORMS Data Mining Best Theoretical Paper 2024

Service

- NeurIPS Top Reviewer 2024

WORKING PAPERS

Note: “ α - β ” means alphabetical author ordering; “*” marks a student co-author.

W2. *Electrifying Bike-share Systems at Scale*

(α - β) Alexandre Jacquillat, Bo Lin, Sheng Liu

Under review, 2026

- Finalist, INFORMS Service Science Best Cluster Paper (Winner TBA)

W1. *Make Cities and Human Settlements Inclusive, Safe, Resilient and Sustainable*

(α - β) Saif Benjaafar, Long He, Alexandre Jacquillat, Bo Lin, Sheng Liu, Wei Qi, Max Shen, Phebe Vayanos, Jingwei Zhang

Major revision, **Manufacturing & Service Operations Management**, 2026

- Accepted to the INFORMS MSOM 2026 Grand Challenge SIG

JOURNAL PUBLICATIONS

J7. *Conformal Inverse Optimization for Adherence-aware Prescriptive Analytics*

(α - β) Timothy Chan, Erick Delage, Bo Lin

Operations Research, Forthcoming

- Preliminary version appeared at **NeurIPS’24** (C2)
- Finalist, INFORMS 2025 TSL Best Student Paper Award
- Finalist, CORS 2025 Gilbert Laporte Student Paper Award
- Finalist, INFORMS 2024 Data Mining Best Theoretical Paper Award

J6. *Analytics for Better Urban Cycling: A Multi-year Collaboration with the City of Toronto*

Bo Lin, Madeleine Bonsma-Fisher, Shoshanna Saxe, Timothy Chan

INFORMS Journal on Applied Analytics (Wagner Special Issue), Forthcoming

- Implemented to support Toronto’s 2025–2030 bike infrastructure planning
- Winner, INFORMS 2026 Innovative Application in Analytics Award
- Winner, CORS 2025 Practice Prize
- Finalist, INFORMS 2025 Daniel H. Wagner Prize

J5. *Machine Learning-augmented Optimization of Large Bilevel and Two-stage Stochastic Programs: Application to Cycling Network Design*

(α - β) Timothy Chan, Bo Lin, Shoshanna Saxe

Manufacturing & Service Operations Management, 2025

- Winner, INFORMS 2024 TSL Best Student Paper Award

- Winner, Analytics for X 2024 Best Presentation Award
- Finalist, INFORMS 2024 Service Science Best Cluster Paper Award
- Finalist, CORS 2024 Gilbert Laporte Student Paper Award
- Runner-up, CORS 2023 Best Student Paper Competition, Open Category

J4. *Exploring the Geographical Equity-efficiency Tradeoff in Cycling Infrastructure Planning*
Madeleine Bonsma-Fisher, Bo Lin, Timothy Chan, Shoshanna Saxe
Journal of Transport Geography, 2024

J3. *Deep Reinforcement Learning for Electric Vehicle Routing Problem with Time Windows*
Bo Lin, Bissan Ghaddar, Jatin Nathwani
IEEE Transactions on Intelligent Transportation Systems, 2022

J2. *Electric Vehicle Routing and Charging/Discharging under Time-variant Electricity Prices*
Bo Lin, Bissan Ghaddar, Jatin Nathwani
Transportation Research Part C: Emerging Technologies, 2021

J1. *The Impact of COVID-19 Cycling Infrastructure on Low-stress Cycling Accessibility: A Case Study in the City of Toronto*
Bo Lin, Timothy Chan, Shoshanna Saxe
Findings, 2021

- Media Coverage: CBC News, Toronto Star, University of Toronto News

CONFERENCE PUBLICATIONS

C2. *Conformal Inverse Optimization*
Bo Lin, Erick Delage, Timothy Chan
NeurIPS'24

C1. *AutoLTS: Automating Cycling Stress Assessment via Contrastive Learning and Spatial Post-processing*
Bo Lin, Shoshanna Saxe, Timothy Chan
AAAI'24

ACTIVE RESEARCH

A2. *Preference-aware Prescriptive Analytics*, with Woody Zhu

A1. *Operationalizing Bike-share Electrification*, with Daniel Freund

PH.D. THESIS

T1. *Analytics for Better Urban Cycling*
University of Toronto, March 2025

- Winner, INFORMS 2025 George B. Dantzig Dissertation Award
- Runner-up, INFORMS 2025 TSL Best Dissertation Award
- Extended abstract published in **Transportation Science**

INVITED
SEMINARS

Academic

- Bilevel Optimization Society Webinar [Recording] 2026
- University of California, Berkeley – eMERGE seminar [Recording] 2026
- Massachusetts Institute of Technology – Jacquillat Group 2026
- Stanford University – Udell Group 2025
- INFORMS Toronto Chapter Research Talk Series 2025
- Tsinghua University – Department of Industrial Engineering 2024
- University of California, Irvine – Paul Merage School of Business 2024
- University of Sydney – Business School 2024
- McGill University – Stochastic Mine Planning Lab 2023
- University of Toronto – Industrial Engineering Seminar 2023

Industry

- ML-Boost Conformal Prediction Seminar [Recording] 2024
- City of Toronto Transportation Services Division 2021, 2022, 2023, 2024
- Noah’s Ark AI Lab (Montréal) 2022

INVITED
CONFERENCE
TALKS

- 2026** Early-career Sustainable Operations Workshop (Dallas), TD Management Data Analytics Roundtable (Toronto), INFORMS Analytics+ (Washington DC), INFORMS TSL (Cambridge), INFORMS (San Francisco)
- 2025** INFORMS Computing (Toronto), CORS (Edmonton), ICCOPT (Los Angeles), INFORMS (Atlanta)
- 2024** POMS-HK (Hong Kong), TRB (Washington DC), AAAI (Vancouver), CORS (London), Princeton Optimization, Learning, and Control Workshop (Princeton), INFORMS MSOM (Minneapolis), ISMP (Montréal), Analytics for X (Singapore), INFORMS Data Science Workshop (Seattle), INFORMS Data Mining and Decision Analytics Workshop (Seattle), INFORMS (Seattle), NeurIPS (Vancouver)
- 2023** AAAI Workshop on AI for Social Good (Washington DC), Vector Research Symposium (Toronto), CORS (Montréal), INFORMS (Phoenix)
- 2022** INFORMS International (Vancouver), INFORMS (Indianapolis)

EXTERNAL
SERVICES

Grant Reviewing

- Reviewer, General Research Fund, Research Grants Council of Hong Kong 2025 –

Editorial

- Associate Editor, INFOR: Information Systems and Operational Research 2026 –
- Referee for journals and conferences in Operations Research (OR), Artificial Intelligence (AI), and Engineering (EN)

OR: *Operations Research, Manufacturing & Service Operations Management, Transportation Science, INFORMS Journal on Computing*

AI: *NeurIPS, ICML, ICLR, Transactions on Machine Learning Research*

EN: *Transportation Research Part A, Transportation Research Part C, IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Transportation Electrification, IEEE Transactions on Smart Grid, IJSE Transactions, npj Sustainable Mobility and Transport*

Award Committees

- Judge, INFORMS Service Science Best Student Paper Competition 2026
- Judge, CORS Practice Prize 2026

Conference Organization

- Session Chair:
 - INFORMS 2024: *Machine Learning Meets Optimization*
 - INFORMS 2026: *The Future of Urban Mobility*

INTERNAL SERVICES (NUS)

Department Level

- Member, Outreach Committee 2026 –

PhD Thesis Committee Member

- Zhen Qiao (Advisors: Xiaotang Yang, Xiaobo Li, and Karthyek Murthy) 2026 –

MENTORSHIP

Current

- Yuxuan Tang, Postdoc, SMART (co-advised with Alex Jacquillat) 2026 –
- Bei Lin, Postdoc, NUS DAO & ISEM (co-advised with Ian Zhu) 2027 –

Past

- Timothy Lee, BSc in Computer Science, University of Toronto 2023
First Position: Data Scientist, Boston Consulting Group
- Richard Hanxu, BSc in Engineering Science, University of Toronto 2022
First Position: MS in Machine Learning, Carnegie Mellon University
- Nancy Li, BSc in Industrial Engineering, University of Toronto 2021 – 2022
First Position: SM in Data Science, Harvard University

SELECTED SCHOLARSHIPS (AS A STUDENT)

- NeurIPS Scholar Award (*aka NeurIPS travel grant*) 2024
- DiDi Graduate Award, Toronto (*research excellence in AI and sustainability*) 2023
- Ontario Graduate Scholarship (≈ 10 international students / year) $\times 2$ 2021, 2022
- Energy Council of Canada Energy Policy Research Fellowship 2019
- Donald J. Cough Memorial Award, University of Waterloo 2019
- Senate Scholarship, University of Waterloo 2019

	• Engineering Graduate Scholarship, University of Waterloo	2019
	• International Master's Student Award, University of Waterloo	2018
	• Top Open Scholarship, Tsinghua University	2017
	• Fung Scholar, Victor and William Fung Foundation (<i>100 undergrads worldwide</i>)	2016
OTHER EXPERIENCE	• Vice President, School of Civil Engineering Student Union, Tsinghua University	2017
	• Exchange Student, Statistical and Actuarial Science, University of Hong Kong	2016