

EDUCATION

Master of Science in Applied Mathematics , <i>Toronto Metropolitan University</i>	09/2023 — 04/2025
<i>Thesis: Analysis & Predictability of Centrality Measures in Competition Networks</i>	
Honours Bachelor of Science in Mathematics, Statistics & GIS , <i>University of Toronto Scarborough</i>	09/2018 — 04/2023

TECHNICAL SKILLS

Languages & Tools	Python, , SQL, R, \LaTeX , Git, Jupyter, Databricks, PowerBI, BigQuery, Anaconda, OpenAI, AzureML
Software Packages	pandas, PySpark, SciPy, NumPy, Matplotlib, Statsmodels, Scikit-Learn, spaCy, Tidyverse, Tidymodels

INDUSTRY EXPERIENCE

Graduate AI Research Intern	05/2024 — 05/2025
<i>Unilever Canada</i> Toronto, Ontario	
• Developed a Graph Neural Network in PyTorch Geometric to recommend sustainable ingredient substitutions, boosting greenhouse gas emissions reduction by over 400%. Finetuned a GPT-4 Turbo to evaluate GNN recommendations.	
Data Science Analyst	01/2022 — 08/2022
<i>Loblaw Companies Limited</i> Brampton, Ontario	
• Worked in Joe Fresh Markdown Optimization team, translating business requests to data science features in Python/SQL.	
• Developed a dynamic, time-series PowerBI dashboard, a heuristic for Seasonal Product Identification to maximize sell-through, and investigated regression for price elasticity.	
Machine Learning Intern	05/2019 — 08/2021
<i>Altair Engineering Inc</i> Toronto, Ontario	
• Built NLP recommendation engine using spaCy, developed NLU/question answering & DL document classification apps.	
• Developed novel Simpson's Paradox automatic detection feature in Altair KnowledgeSTUDIO data science software.	
• Contributed to marketing campaign on Altair KnowledgeSTUDIO software for electric vehicle adoption predictive analytics .	

ACADEMIC EXPERIENCE

Graduate Assistant	09/2023 — 04/2025
<i>Toronto Metropolitan University</i> Toronto, Ontario	
• <i>MTH110/210/314 Discrete Math I & II, MTH140/240 Calculus I & II, MTH141 Linear Algebra I, and MTH380 Probability & Statistics I.</i>	
Teaching Assistant	01/2022 — 04/2023
<i>University of Toronto Scarborough</i> Scarborough, Ontario	
• Assisted in running labs and grading <i>MATB61 Linear Programming & Optimization, MATA22 Linear Algebra I, CITC01 City Studies.</i>	
Research Assistant	11/2020 — 01/2022
<i>University of Toronto</i> Toronto, Ontario	
• Wrote 15 R tutorials and survey paper on reproducible data science workflows using LearnR, TidyModels, GitHub Actions, Targets.	

TECHNICAL PROJECTS

Open-Source Data Science Projects

Tools: pandas, NumPy, SciPy, Matplotlib, seaborn, scikit-learn, tkinter, sklearn, spaCy

- Developed a [stock portfolio optimization tool](#) with visualization capabilities and risk-return criteria selection.
- Developed [predictive models](#) for employee turnover in corporate settings using socio-economic/demographic data.
- Developed a [recommendation system](#) and a GUI for arXiv research papers using NLP machine learning techniques.

SCHOLARSHIPS & AWARDS

2024 Toronto Met Graduate Fellowship (TMGF)	\$18,900
2024 Mathematics Graduate Award (MGA)	\$11,100
2024 Graduate Student Stipend	\$7,500
2024 Geoff Boyes Graduate Award	\$2,000
2022 Loblaw Companies Limited National Scholarship	\$2,500
2018 Schulich School of Business Innovative Startups Award	\$1,000
2016 Schulich School of Business Entrance Scholarship	\$2,500
2016 Home Depot Orange Scholars Homer Award	\$2,500
2015 Jr. Economic Club of Canada Scholarship	\$5,000

ACTIVITIES

Data Science Writer, KDnuggets	09-2020 — Present
Member, University of Toronto Data Lab	11-2020 — 01-2022
Co-Founder & Co-Organizer, Toronto EdTech Meetups & Hackathons	01-2018 — 10-2018