

EDUCATION

PhD; Operations Research and Information Engineering Cornell University – Ithaca, NY, USA	Fall 2024 – Present GPA: 3.82/4.0
Bachelor of Science; Honours Applied Mathematics / Minor Computer Science McGill University – Montreal, QC, Canada	Fall 2019 – Fall 2022 GPA: 3.82/4.0
DEC; Pure and Applied Science Graduated with Dean's Honours from First Choice Science (Enriched Science) Dawson College – Montreal, QC, Canada	Fall 2017 – Spring 2019 R Score: 37.9/38.0

WORK EXPERIENCE

Teaching Assistant College of Engineering, Cornell University – Ithaca, NY, USA	January 2024 – May 2024
Performance Measurement Analyst Canadian National Railway (CN) – Montreal, QC	May 2023 – August 2023
Undergraduate Research Assistant – DAAD RISE & Mitacs Globalink Technische Hochschule Ingolstadt, Learning and Optimization in Manufacturing Lab – Ingolstadt, Germany	May 2022 – August 2022
<ul style="list-style-type: none">Awarded Mitacs scholarship for competitive DAAD RISE program from pool of 1365 applicants and 320 acceptancesAnalysis of combinatorial optimization strategy using computational social choice theoryDeveloped Copeland and Pareto constraints in modelling software MiniZincFormed iterative search algorithm in python integrating MiniZinc Copeland scores and Pareto constraints	
Undergraduate Research Assistant – NSERC USRA Award McGill University, Faculty of Management, Operations Management Area – Montreal, QC	May 2021 – August 2021
<ul style="list-style-type: none">Analysis of Montreal Ville Marie parking data using python as part of project to minimize social costs of parkingDeveloped 2 step method that reduced error for parking occupancy prediction using time series clustering and neural networksTested model updating strategies from research papers such as weighted ensemble learning and replacementUpdated Bokeh interactive visualization to include new methodology and added confidence interval data table	
Cloud Operations and Infrastructure Intern TC Energy – Calgary, AB	May – August 2020
<ul style="list-style-type: none">Patched, resized, tagged, added disk space for virtual servers in AWS, Nutanix, and VCenterImproved the server patching process with PowerShell scripts and SCCM, leading to over \$8000/year savingsLead Active Directory Audit project to improve security and replaced user accounts in over 800 server groupsResolved 69 tickets in 3 months while working remotely	
Office Clerk Canada Revenue Agency – Montreal, QC	January – August 2019
<ul style="list-style-type: none">Organized data using Excel to extract useful information for the Income Tax Assistance – Volunteer ProgramTranslated documents from French to English while respecting deadlinesAssisted team members in contacting volunteers, arranging promotional material, and event organization	
Project Lead Material Property Inventory Canada Revenue Agency – Montreal, QC	June 2018 – January 2019
<ul style="list-style-type: none">Established an inventory and optimized the inventory process for over 5000 office furniture itemsQuickly learned to use data base software Access and P-touch EditorWrote a comprehensive guide detailing optimal method found using creative shortcuts	

PROJECTS

- **Improving Messaging in Temporal Graph Neural Network Algorithm** (Python)
 - Research paper on improving TGN algorithm introduced by Rossi et al. (2020) for dynamic network link prediction
 - Tested improvements to the message function, particularly to share messages to a node's neighbourhood
 - Analyzed results on bipartite Wikipedia page editing data and unipartite MIT dorm student interaction data
 - 1st place in Western University IDSTEM Conference 2022 Poster Competition (Category: Math/Comp/Engineering)
- **Analysis of Travel Time to LDS Churches in the Montreal Area Considering Language Preference** (ArcGIS, Excel)

- Explored change in average travel time in various location reallocation scenarios for members of the LDS Church
- Considered reallocation to nearest congregation compared to current allocation with language preference and proximity
- Also tested alternate settings, such as removing or adding congregations to meet at the church buildings in reallocation
- Analyzed changes in congregations statistics and presented results to regional LDS leadership
- **Dependence and Depression Levels in Residential Care Residents Throughout Canada** (R, Excel)
 - Undergraduate Big Data Competition (2020) Manuscript analysing Canadian Residential Care Data from 2016-2019
 - Abstract published in STEM Fellowship Journal
- **A Visual Network of Required Courses to Help Students Plan their Degree** (Python, Graphviz, Beautiful Soup, Requests)
 - This code scraped information about a program's required courses, pre-requisites, and co-requisites from the McGill website, organized that data into a graph structure, and then visualized the ordered network
- **Exploring the Dynamics of Happiness Through Mathematical Modelling** (Matlab)

SKILLS AND COURSES

Programming & Software: Python, R, Java, Amazon Web Services, Windows PowerShell, ArcGIS, MS Access

Computer Science: Algorithms and Data Structures, ML, Geometric Data Analysis, Network Science, AI, Software Systems

Math: (Honours Level) Algebra, Analysis, Calculus, Graph Theory, Probability, Statistics, ODEs, PDEs, Non-Linear Dynamics; Complex Variables, Linear Optimization, Stochastic Processes, Numerical Analysis, Regression, Reinforcement Learning

ACTIVITIES

- **McGill Summer School in Health Data Analytics** – June 2021
 - Some topics included are Correlated Data Models; Bayesian Inference with Markov Chain Monte Carlo; High Dimensional Data Analysis Using Penalized Regression Methods; Bayesian Adaptive Design for Clinical Trials; and Bayesian Disease Mapping
- **Artificial Intelligence and Operations Research 2-Week Crash Course** (University of Toronto ORG) - October 2020
 - Data Prep and Machine Learning in Python with Scikit-Learn, RL, Operations Research with Gurobi in Python
- **Undergraduate Big Data Competition** – June 2020
- **McHacks at McGill** – February 2020
- **Women in AI day at the National Bank** - Fall 2019
- **Math Competitions:** Euclid 2018, COMC 2018, Waterloo Senior Math Comp. 2018 (top 25%), AMQ 2019 (top 20%)

LEADERSHIP

Canadian National Student Representative / American Indian Science and Engineering Society June 2020 – June 2022

- Acted as primary student ambassador of the organization
- Attending events to speak about the mission, goals and objectives of AISES programs, activities and events, with corporations, federal agencies, tribal entities and other organizations
- Started 'AISES in Canada Student Chats' Series to encourage student connection during pandemic
- Supported universities and students in starting their own AISES Chapters in Canada
- Volunteered in organization of AISES National US and Canadian Conferences
- Shared Canadian student perspective as member of the Board of Directors and Canadian Indigenous Advisory Council

Junior Co – Chair / McGill Student Chapter of AISES September 2020 – Present

- Reminded student members of activities, events, and opportunities
- Helped organize volunteer and outreach activities

Student Council Member / Montreal LDS Institute of Religion January 2018 – July 2021

- Helped organize weekly scripture study program, free supper, and evening activities
- Lead food and registration committees for interprovincial annual winter conference for approximately 250 young adults
- Improved young adult participation to highest in several years

VP Communications / American Indian Science and Engineering Society October 2019 – April 2020

- Managed Facebook page and prepared indigenous and STEM related content to share
- Started Instagram page and grew to 100 followers

LDS Student Representative / McGill University September 2019 – April 2020

- Served as Latter Day Saint Student Representative for McGill Office of Religious and Spiritual Life council
- Volunteered and helped organize the McGill Interfaith Fair and other campus interfaith events

VOLUNTEERING

- **Pick Your Path: Indigenous Post-Secondary Student Mentor** (Summer 2021, Fall 2022 – Winter 2023)
Met weekly or biweekly with indigenous student mentee to provide guidance regarding post-secondary education

- Kahnawake Survival School Volunteer (2019-2022)
Volunteer in multiple capacities including science fair mentoring, science fair judging, and leading design cycle workshops
- French Tutor for Journeys Indigenous Program at Dawson College (Winter Semester 2019)
- First Peoples Week at Dawson College (2018 & 2019) – Volunteered and hosted a beadwork workshop
- Campus Activity Recreation Team at Dawson College (April 2018 – April 2019)

ENTREPRENEURSHIP

- Wasko Beadwork** September 2020 - Present
- Started beaded jewelry business after beading to de-stress during the pandemic <https://waskobeadwork.square.site/>
 - Improved photography skills with mirrorless camera to best present my beadwork Instagram: @waskobeadwork
 - Set up online store and Instagram community to market and sell my work
 - Vendor at events such as the Montreal Indigenous Winter Market, McGill Winter Farmer's Market, and McGill Faculty of Education Orange Shirt Day

AWARDS

- **Hydro Quebec Science Award** Sept 2019 - April 2022
A major entrance scholarship to McGill University of \$5000, renewable for 2 years, to support outstanding Quebec students pursuing a Bachelor of Science. Awarded a total of \$15,000
- **RBC Indigenous Student Award - The Corinne Mount Pleasant-Jetté Leadership Award** Sept 2019 - April 2022
A national award valued at \$4000, renewable for 3 years, given to 10 indigenous students from across Canada. "The Corinne Mount Pleasant-Jetté Leadership Award" is given as a special distinction to one of the 10 students "who demonstrates leadership skills in their community and acts as a change agent for Indigenous communities." Awarded a total of \$12,000
- **TC Energy Indigenous Legacy Award** Summer 2021
\$5000 award to support indigenous students pursuing post-secondary education
- **The IPEX Women's STEM Scholarship** Summer 2021
\$3500 scholarship for a female student passionate about pursuing a career in STEM-related field
- **Chapeau les Filles – Prix Équité** Fall 2020
\$2000 awarded by the Fédération des travailleurs et travailleuses du Québec to female undergraduate student
- **Indigenous Student Entrance Award** Fall 2019
\$2000 awarded by McGill University in partnership with Indspire to new incoming post-secondary student
- **Science Communication Award at Dawson Science Fest** April 2019
Gave a 30 minute talk on Random Number Generators and their various applications
- **Top 35 out of 200+ in 2019 AMQ Math Competition** May 2019
(Association mathématique du Québec) Selected to attend the AMQ Collegial Math Camp

AFFILIATIONS

Sequoyah Fellow (Lifetime Member) – American Indian Science and Engineering Society
 Student Member – Institute for Operations Research and the Management Sciences
 Student Member – Canadian Mathematical Society