

Ali Raisolsadat (MMATH, BSc)

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SUMMARY OF QUALIFICATIONS

- Demonstrated exceptional 2+ years of research experience across projects in financial modeling, statistical analysis, and insight extraction, showcasing expertise in developing and executing innovative data-driven methodologies.
- Strong quantitative background with a Master of Mathematics in Computational Mathematics (90%) from the University of Waterloo and dual BScs in Financial Mathematics (85%) and Actuarial Science (95%) from the University of Prince Edward Island.
- Proficient in R (4+ years) and Python (2+ years) for data analysis, modeling, and visualization.
- Experienced with MS Office Suite, SQL (PostgreSQL, ETL) and Java for backend development and data processing.

PROFESSIONAL EXPERIENCE

Viewbid Auctions – Dartmouth, Nova Scotia

October 2025 – Present

Quality Assurance Data Analyst

- Designed and executed over 200 structured QA test cases across core modules including Authentication, Auctions, Bidding Engine, Invoice Management, Reporting, and Admin Controls.
- Conducted data validation and backend synchronization checks between admin, poster, and bidder apps using real-time data logs and monitored system performance during edge cases (e.g., concurrent bids, data sync delays, auction edits post-publication).
- Collaborated closely with development and product teams to reproduce, document, and verify bug fixes, improving release stability.

Canadian Centre for Climate Change and Adaptation – Charlottetown, PEI

Summer 2021, 2022, 2024

Data Scientist

- Spearheaded a research project with the climate policy team to quantify international cooperation among G7 nations using the United Nations Sustainable Development Goals (SDG) data.
- Constructed ML algorithms such as LASSO, Ridge regression, and PCA for data analysis and feature extraction.
- Presented findings at the 25th IME Conference 2022 and published this research in the prestigious *Nature Communications* journal¹.

Veterans Affairs Canada – Charlottetown, PEI

May 2020 – September 2020

Research Assistant

- Led a longitudinal study forecasting insurance reimbursements for veterans' medications using ARIMA, AR, MA and regression time series models in R (Tidyverse, lubridate), to produce a 5-year forecast with a 95% confidence interval, revealing critical insights for policymaking and ratemaking.
- Presented findings to the research team through an interactive RShiny dashboard, facilitating informed decision-making.

EDUCATION

Master of Mathematics (MMATH) in Computational Mathematics, 4.0 GPA

September 2022 – October 2023

University of Waterloo, Ontario, Canada

Bachelor of Science in Actuarial Sciences, 4.0 GPA

September 2020 – May 2022

Bachelor of Science in Financial Mathematics, 3.5 GPA

September 2014 – May 2019

University of Prince Edward Island, PEI, Canada

AWARDS & CERTIFICATES

- **Certificates:** Google Data Analytics Professional Certificate, DataCamp (Data Analyst in SQL, Data Analyst in Python)
- **Awards:** Fong Computational Math Graduate Award (\$7,500), Best Teacher Assistant Award, Natural Sciences and Engineering Research Council of Canada (NSERC) Grant (\$10,000), Harry MacLauchlan Memorial Award in Mathematics (\$1280)

¹ [Quantitative Assessment of The Group of Seven's Collaboration in Sustainable Development Goals](#)