

Ali Raisolsadat

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LinkedIn: [Ali Raisolsadat - University of Prince Edward Island - Prince Edward Island, Canada](#)

Skills and Qualifications

- Personable with the ability to work well with coworkers and the general public
- Organized with the ability to work well in high pressure and fast paced environments
- Excellent written and verbal communication skills (and experience)
- Strong mathematical and analytical skills
- Proficient knowledge of Java and R Programming
- Proficient in Internet and computer applications including Microsoft Office, PowerPoint, Outlook and Google Drive
- Elementary Skills of Microsoft Excel and Python
- Bilingual in English and Farsi (Persian)

Education

Bachelor of Science – Actuarial Sciences January 2020 – present
University of Prince Edward Island

- Relevant coursework: Interest Theory, Probability Theory, Long Term Actuarial Science Mathematics, Machine Learning, Data Structures in Java, Data Mining and Visualization

Bachelor of Science – Financial Mathematics September 2014 – 2019
University of Prince Edward Island

- Relevant coursework: Financial Mathematics, Financial Economics, Advanced Corporate Finance, Statistical and Mathematical Modelling

Employment History

Research Assistant January 2021 - September 2021
University of Prince Edward Island, Charlottetown, PEI

- Conducted research about the United Nations sustainable development goals (SDGs), with the help of Dr. Kai Liu.
- Analyzed the United Nations' SDG indicators using various R graphical and statistical packages and functions.
- Constructed and tested machine learning algorithms and techniques to predict future impact of countries on SDG indicators. Some of these algorithms are Principal Component Analysis (PCA) Decision Trees and Soft Vector Regression (LS-SVM).
- Defined a new climate risk management index using the SDG impacts and intercluster synergy of countries.
- A research paper is currently being written for our findings. Our goal is to publish this paper in the reputable Nature journal.

Summer Research Assistant

May 2020 - September 2020

Veterans Affairs Canada, Charlottetown, PEI

- Research with Dr. Julian Velez regarding Cannabis for Medical Purposes (CMP) longitudinal data for purpose of writing a paper
- Conducted demographic and granular analysis of the CMP data of provided by VAC administration and research team
- Created time series models for the CMP data using R software
- Created presentation of the time series models in R flexdashboard and RShiny

Undergraduate Research Assistant

Summer 2018, Summer 2019

University of Prince Edward Island, Charlottetown, PEI

- Research project on “A Geometric Approach to Risk Management, with Dr. Alex Alvarez for the purpose of writing a paper
- Modelled and implemented asset pricing models and geometric risk measures in MATLAB and R Software

Academic achievements from this research project:

- Presented the research project in Science Atlantic 2018 (Université de Moncton) and achieving second place in the Statistics section of the presentations
- Presented the research project at University of Prince Edward Island, both for SPUR program (received SPUR scholarship) and as a colloquium presentation

Administrative Office Assistant

July 2017 – September 2017

Agriculture and Agri-food Canada (Science and Technology Branch), Charlottetown, PE

- Helped organizing the Agriculture Canada semi-annual open house event
- Created financial reports/forecast for executive/supervisors’ trips and events
- Created excel spreadsheets for listing all the employees in Agri-Canada for PEI & New Brunswick
- Office duties, such as printing, making binders for Charlottetown regional executive, filling out different forms, typing documents and setting up conference rooms

Volunteer Experience

School of Mathematical and Computational Society

September 2015 – April 2019

University of Prince Edward Island, PE

- Assisting with planning and setting up events in Mathematics faculty
- Financial executive of SMCS (School of Mathematical and Computational) society for year 2017-2018

Citizenship Class Teacher

September 2015 – July 2018

PEI Newcomers Association, Charlottetown, PE

- Assisting and teaching for citizenship classes