

Ali Raisolsadat

I am an aspiring financial mathematician who enjoys connecting the dots. I love learning new skills through hard work and different experiences. I wish to combine analytical, practical, and innovative thinking to gather experience in the investment and policy analysis industry.

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LinkedIn:

<https://www.linkedin.com/in/ali-raisolsadat/>

GitHub Site:

<https://ali-raisolsadat.github.io/>

Skills

- Personable with the ability to work well with coworkers and the public
- Organized with the ability to work well in high pressure environment
- Excellent written and verbal communication skills (and experience)
- Strong mathematical and analytical skills
- Data analysis, Data modeling, Statistics, and Machine learning models
- Bilingual in English and Farsi (Persian)

Data tools and languages

- Proficient in R programming
- Intermediate level in Java and Python programming
- Intermediate level in Microsoft Excel
- Intermediate level in Microsoft Office, PowerPoint, Outlook, and Google Drive

Education

Bachelor of Science – Actuarial Sciences

University of Prince Edward Island, Charlottetown, PEI

September 2014 – May 2019

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

Bachelor of Science – Financial Mathematics

University of Prince Edward Island, Charlottetown, PEI

September 2014 – May 2019

- Relevant coursework: Financial Mathematics, Financial Economics, Advanced Corporate Finance

Work Experience

Summer Research Assistant - NSERC Grant

University of Prince Edward Island, Charlottetown, PEI

May 2022 – Present

- Currently working on a research project which proposes a contemporary data-driven approach that quantitatively measures the amount of synergy (cooperation) for SDG indicators among a group of countries
- In depth review of the policies regarding the Paris Agreement and Agenda 2030 (Sustainable Development Goals -SDGs)
- In depth analysis of the United Nations' SDG indicators using various R graphical and statistical packages and functions
- Gathering the results and the methodology of the project together for submission to a prestigious journal

Research Assistant

University of Prince Edward Island, Charlottetown, PEI

January 2021 – December 2021

- Conducted research about the United Nations sustainable development goals (SDGs)
- Analyzed the United Nations' SDG indicators using various R graphical and statistical packages and functions
- Constructed and tested machine learning algorithms and defined a new climate index using the results

Summer Research Assistant

Veterans Affairs Canada, Charlottetown, PEI

May 2020 – September 2020

- 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 presentation of the time series models in R flexdashboard and RShiny

Undergraduate Research Assistant

University of Prince Edward Island, Charlottetown, PEI

May 2018 – September 2018 and May 2019 – September 2019

- Research project on “A Geometric Approach to Risk Management, with Dr. Alex Alvarez for the purpose of writing a paper
- Modeled 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

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

July 2017 – September 2017

- Helped organizing the Agriculture Canada semi-annual open house event
- Created financial reports/forecast for executive/supervisors’ trips and events
- Office duties, such as printing, making binders for Charlottetown regional executive, filling out different forms, typing documents and setting up conference rooms

Volunteer History

School of Mathematical and Computational Society

University of Prince Edward Island, PEI

September 2015 – April 2019

- Assisted 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

Prince Edward Island Newcomers Association, Charlottetown, PEI

September 2015 – July 2018

- Organized and assisted with teaching the PEI’s Newcomers Association citizenship classes

Interests

- Rock climbing
- Reading books – Genres: Science Fiction, Fantasy Fiction, and Philosophy
- Cooking
- Playing guitar