Philip E. Bui

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EDUCATION

Université de Montréal **Montreal, Canada**
M.Sc. in Applied Mathematics *Intended Graduation 2025*

- **Supervisor**: Dr. M. Augustyniak
- **ML Courses (Mila):** Fundamentals of Machine Learning, Deep Learning
- **Math Courses (UdeM):** Bayesian Statistics, Mathematical Finance (Arbitrage Theory)

Université du Québec à Montréal **Montreal, Canada**
B.Sc. in Actuarial Mathematics *Sept 2019 – May 2022*

- **Courses**: Probability, Statistics, Linear Algebra, Data Science, Predictive Analytics, Real Analysis, Discrete Mathematics, Stochastic Calculus, Linear Modelling, Financial Mathematics

TECHNICAL SKILLS

Tools\Technologies: Python, R, SQL, LaTeX
Spoken Languages: Native in English & French

AWARDS & ACHIEVEMENTS

CRSNG Master's in Mathematics Funding **$12,000**
IVADO Fin-ML CREATE Research Scholarship **$7,500**

- Research scholarship for exceptional students

Telus HEALTH Scholarship **$3,000**

- Academic excellence award for student in mathematics and statistics

Montreal Data Science Competition 2023 (1st place) **$4,000**

PROFESSIONAL EXPERIENCE

University of Montreal **Montreal, Canada**
Teaching Assistant – Intro to Financial Mathematics *Sep 2023 – Dec 2023*

- Hosted weekly recitations to help students better understand concepts taught in lecture
- Hosted weekly office hours to further aid students in understanding course material in a 1-on-1 setting
- Coordinated with team of TAs and professor and led discussions on potential course improvements

Telus HEALTH **Montreal, Canada**
Senior Actuarial Analyst – Pension & Investment Consulting *Jan 2022 – Aug 2023*

- Designed Python mortality prediction model for small-size pension funds, deployed company-wide and used to adjust mortality assumptions for actuarial valuations, improving mortality accuracy by 15% over baseline tables
- Conducted company-wide trainings on data cleaning, analysis, and preprocessing to new and advanced employees
- Worked on enhancements of in-house applications for optimized computation of actuarial metrics
- Performed over 20 general stochastic modelling of assets and liabilities of clients' pension plans

Desjardins Financial **Toronto, Canada**
Actuarial Intern – Group Insurance *May 2021 – Aug 2021*

- Performed descriptive research project to predict and find key drivers of length of contract with Desjardins using regression-based analysis with R, presented results to department executives

GRADUATE COURSEWORK PROJECT

Classification of Extreme Weather Events

- Utilized Python and relevant data science libraries (NumPy, Pandas, Scikit-Learn) for data analysis and modeling
- Conducted extensive data preprocessing and feature engineering (geographical features, time-based features, meta features) on large dataset to enhance model's performance