Jakob Bickley

403-852-5497 — kobs1406@gmail.com — jakobbickley.com
Edmonton, AB — Open to Relocation (Anywhere in Canada) — Available Jan 2026

Education

B.Sc. Mathematics & Finance *Expected May 2026*
University of Alberta GPA: 3.8 / 4.0

- Awards: Louise McKinney Scholarship, Cathy Allard-Roozen Leadership Award, Thorleif M. Fostvedt Scholarship, I.M. May Denham Memorial Scholarship, Dean's Honour Roll.
- Selected Coursework: Corporate Finance, Financial Modelling, Derivatives, Risk Management, Statistical Analysis, Operations Management.

CFA Level 1 Candidate (May, 2026)

Experience

Underwriting Student – SGI (Saskatchewan Government Insurance) *May 2025–Aug 2025*

- Analyzed commercial property and auto insurance submissions by reviewing, operational data, statements, and exposure characteristics to support underwriting, pricing, and risk selection decisions.
- Designed and implemented Excel, VBA, and Python-based automation to streamline core underwriting analysis and reporting workflows, enabling faster turnaround and more consistent risk evaluation.
- Built financial models and automated dashboards tracking premiums, loss ratios, portfolio performance, and broker KPIs, reducing manual processing time by 40% and improving decision support.
- Performed data validation, control checks, and reconciliation of risk inputs while automating repeatable tasks to improve pricing accuracy, data quality, and workflow reliability.

Teaching Assistant – University of Alberta *Sep 2024–Present*

- Evaluated 500+ Calculus I–III assignments, ensuring accuracy, consistency, and adherence to mathematical and analytical standards.
- Led weekly help sessions focused on calculus concepts, problem-solving techniques, and exam preparation, supporting student understanding and performance.

Residence Assistant – University of Alberta *Aug 2023–May 2025*

- Supported 45+ residents with academic and personal challenges; awarded RA of the Year for leadership, sound judgment, and effective crisis and risk management.
- Managed incident documentation, conflict resolution, and coordination with campus safety teams in a high-responsibility, compliance-driven environment.

Research

Bank-Run Liquidity Risk Model under Interest-Rate Shocks ***In Progress***

- Developed a quantitative liquidity risk model to assess bank vulnerability to rapid deposit withdrawals under adverse interest-rate and stress scenarios.
- Applied Markov-based state transitions and simulation analysis in Python and R to stress test liquidity thresholds, evaluate sensitivity to macroeconomic conditions, and support risk assessment.

Technical & Financial Skills

Financial: Financial modelling (DCF, comparables, sensitivity analysis), valuation, financial statement analysis, corporate finance, risk analysis, stress testing
Excel: Advanced formulas, PivotTables, VBA, Power Query, dashboards, scenario analysis
Programming: Python (Pandas, NumPy, data analysis, automation), R (regression, visualization), SQL basics
Tools: Bloomberg Terminal, Microsoft Excel, Microsoft Office, Google Workspace, LaTeX