

Tingting Zhu

BMath. University of Waterloo

Honours Mathematics Financial Analysis & Risk Management, joint,
Honours Combinatorics & Optimization Co-op



<http://www.tingtingzhu.com>



226-789-3366



ting520143@gmail.com



Projects

COO, Arendil

Startup with the mission to help individuals and companies to optimize career engagement and productivity

NLP-Kafka (On going)

Real time sentiment analysis using Python, with data streamed from Twitter API, pushed to Apache Kafka, and aggregated using KSQL

K-Means Happiness

Machine learning clustering analysis by applying k-means from scikit-learn on the world happiness report

Weather Scrape

Data science project on population weighted Canadian weather data, demonstrating data cleaning, scraping, and visualization techniques in Python



Skills

Computer

- Python, VBA, SQL, Tableau, Presto, Nexus, Scuba
- Advanced Excel, Bloomberg

Language

- Bilingual in English and Mandarin Chinese

Professional Examinations

- CFA Level I (Jun 2016)
- IFSE Branch Manager (Nov 2017)



Travel

Traveled to 8 countries and 2 continents

Eastern Europe and Asia, May—Jul 2017

- Developed planning and negotiation skills by organizing a personal international trip
- Cultivated communication skills and overcome language barriers through the use of non-verbal and verbal languages



Leadership

Rotational Leadership Development Program, Sun Life Financial - Investigations

- Lead the business process re-engineering project in Individual Compliance
- Created a balance scorecard tool with elegant UI - currently adapted by senior leaders and the CIO in Enterprise Services
- Pitched and developed a product idea in the first Sun Life Ideathon
- Designed and developed automated tools for multiple teams using advanced VBA- eliminated two debunked roles

VP Finance, Engineers Without Borders - Waterloo Chapter

- Obtained and solidified funding from faculties and corporations - \$3000 from Shell Canada, and \$7000 from Dean of Engineering
- Managed chapter finance and created monthly report to communicate with EWB National Office



Data & Analytics

Business Intelligence, Facebook

- Built insights tools and automated dashboards that deliver powerful revenue, product adoption, and market intelligence
- Leveraged historical data and market trends to forecast sales quota and attainments
- Researched and simplified complex problems in different verticals as a cross-functional role by drawing insights using data analytics tools

Capital Market Finance Analyst, Royal Bank of Canada - Capital Market

- Managed profit & loss for multiple equity derivatives trading books
- Investigated and resolved profit & loss discrepancies between system records and traders' estimates, due to valuation methodologies and incorrect bookings of trades

Actuarial Analyst, Manulife Financial - Market & Liquidity Risk Management

- Valued Earning Sensitivities, Earning at Risk and Economic Capital using Excel based calibration workbook and forecasting tools, and analyzed quarter to quarter movements
- Performed stochastic/deterministic analysis on the impact of various scenario-shocks on the yield curve for Spread and Interest Rate Risks
- Conducted focused group interviews and created multiple in-depth study surveys to collect data on new initiatives



Organizational Experience

Special Projects Coordinator, University of Waterloo

- Coordinated a 3-day annual international and cross-institutional academic conference – 200 speakers & 500 delegates – in collaboration with senior board members from the International Peace and Justice Studies Association
- Conducted focused group interviews and created multiple in-depth study surveys to collect data on new initiatives