# Tingting Zhu

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## Skills

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

## Languages

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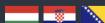
### K-Means Happiness
Machine learning clustering analysis by applying k-means from scikit-learn on the world happiness report

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

## Travels

## Professional Exams

CFA Level I (Jun 2016)

IFSE Branch Manager (Nov 2017)

## Other Interests

## Education

**BMATH. University of Waterloo**
Honours Mathematics Financial Analysis & Risk Management, Joint Honours Combinatorics & Optimization, Co-op

## 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