

CONTACT INFORMATION	Ph.D. Student in Analytics Smith School of Business Queen's University, Kingston, ON	<i>Phone:</i> (+1) 437-988-6652 <i>E-mail:</i> xingwei.yang@queensu.ca
RESEARCH INTERESTS	<ul style="list-style-type: none"> • Financial Mathematics • Data Analytics and Optimization • Operations Research 	
EDUCATION	Smith School of Business, Queen's University , Kingston, ON, Canada Ph.D. in Management (Analytics) , September 2018–August 2023 (expected) GPA: A <ul style="list-style-type: none"> • Selected courses: <ul style="list-style-type: none"> – Deterministic Operations Research Models(A+); Probabilistic Operations Research Models (A); Applied Statistics and Econometrics (A); Big Data Analytics; Advanced Topics in Analytics; Financial Economics 	
	University of British Columbia (UBC) , Vancouver, BC, Canada B.Sc. in Mathematics with a focus on Statistics and Finance , September 2012–August 2016 GPA: 3.5/4.0 (Dean's List 2013) <ul style="list-style-type: none"> • Selected courses: <ul style="list-style-type: none"> – <i>Mathematics:</i> Optimization in Graphs and Networks; PDE; Linear Programming; – <i>Statistics:</i> Statistical Inference; Probability – <i>Computer Science:</i> Computation, Programs, and Programming; Finding Relationships in Data – <i>Finance & Business:</i> Financial/Managerial Accounting; Business Finance; International Trade; 	
JOURNAL PUBLICATION	B. D. Shizgal, N. Ho and X. Yang , “The Computation of Radial Integrals with Nonclassical Quadratures for Quantum Chemistry and Other Applications,” in <i>Journal of Mathematical Chemistry</i> , 55(2): 413-422, 2017.	
HONORS AND AWARDS	<ul style="list-style-type: none"> • Jeff McGill Graduate Fellowship, Queen's University (\$2,385), 2019 • Smith School of Business Award, Queen's University (\$18,000), 2018 • Faculty of Science International Student Scholarship, UBC (\$2,500), 2015. • Faculty of Science International Student Scholarship, UBC (\$5,000), 2014. • Trek Excellence Scholarship for Continuing Students, UBC (\$4,000), 2013. <ul style="list-style-type: none"> – Academic awards granted to students in top 5% of the undergraduate year/faculty • Chancellor's Scholar Award, UBC, 2013. • UBC Golden Key International Honors Society Member, 2013–present. <ul style="list-style-type: none"> – Invited to be a member as a result of being in top 15% of university students in faculty. • Outstanding International Student Award, UBC (\$5000), 2012. 	
WORK EXPERIENCE	TD Canada Trust <i>Operation Analyst</i>	Toronto, ON 2018
	<ul style="list-style-type: none"> • Automate the manual process of cash activities for the cash management team for more than 1000 accounts which is worth a total amount of 600 millions CAD with use of VBA • Develop Excel/VBA based financial programs utilizing IBM client management system to monitor clients investment volatility and improve daily reporting process 	

RESEARCH
EXPERIENCE

Financial Professionals Inc.

Business Analyst

Toronto, ON

2017

- Analyze financial securities in capital market portfolios to support funding desks in making funding and investment decisions.
- Manage daily journal entries, financial reporting and monthly balance sheet substantiation of several trading desks with gross asset and liability of \$50B.
- Support project testing for multiple overseas offices by clearing system breaks, sorting accounting entries and increasing data models efficiency.

Megafone Media

Data Analyst Intern

Toronto, ON

Summer 2017

- Query data from Ad Server and design relational databases of more than 300 media campaigns.
- Maintain data integrity constraints during extraction, processing, analysis using MS Access.
- Collaborate with sales and finance teams to predict customers' preferences based on historical data using Power BI and Tableau.

PricewaterhouseCoopers (PwC) - Advisory/Deals

Merger and Acquisition Intern

Beijing, China

Summer 2015

- Analyze 1,000 companies, and phone investigate 50 shortlisted companies for potential M&A projects using Bloomberg.
- Apply various valuation methodologies, including discounted cash flow, comparable companies, and P/E multiples to evaluate market value of target companies with market size of over \$20M.
- Assist management in forecasting market trends by conducting large scale market research and preparing industrial reports.

Smith School of Business, Queen's University

Research Assistant

Kingston, ON

2018 - present

- **Big Data Project:** Apply advanced big data, machine learning and neural network techniques in R to increase the precision of predicting the depression risk of social network users
- **Revenue Management Project:** Propose a debt-equity financing model to control the risk of the debt holders and increase the profit margin of the shareholders

Faculty of Science, UBC

Research Assistant

Vancouver, BC

Summer 2016

- Apply new algorithms to target integrands with Matlab, eliminate the effects of scaling by introducing a range of scale factors and increase the accuracy of calculation by 2-5 times.

Department of Statistics, UBC

Data Analyst and Statistician

Vancouver, BC

Winter 2015

- Build a predictive model to forecast cars' MSRP by collecting and cleaning more than 20k datasets from 13 different manufacturers' databases.
- Perform statistical analysis (e.g., correlation, regression and model optimization analysis) with R and increase the model accuracy by 10%.

State Key Lab. for Information Eng., Wuhan University

GIS Research Assistant

Wuhan, China

Summer 2014

- Calculate the river channel storage by applying different geographic model algorithms and enhance computational efficiency based on different geographical terrains.

TEACHING
ASSISTANTSHIP

Smith School of Business
Teaching Assistantship

Toronto ON

- MMA 823 - Analytics for Financial Market (Graduate Course); Spring 2019
- COMM 161 - Introduction to Mathematical Analysis for Management; Fall 2018

LEADERSHIP
EXPERIENCE

Center for Community Engaged Learning, UBC
Community Leader

Vancouver, BC
2014–2015

- Guide 20 fifth grade students to a field trip and encourage them to participate in scientific events.

Shakespeare's Play Club
Co-founder and Actress

Wuhan, China
2011–2013

- Play a leading role in Shakespeare's play Twelfth Night for the 7th National Shakespeare's Play Competition held by the Chinese University of Hong Kong.

TECHNICAL
SKILLS

- *Databases:* MS SQL Server (SSAS, SSRS, SSIS), Access, Tableau, MS Power BI
- *Programing Languages:* Python, R, SAS (SAS Base Programing Certificate), Matlab, T-SQL, VBA
- *Other Skills:* MS Excel (Pivot Table/Chart, Vlookup, etc.), Bloomberg, MS Dynamics CRM