Vivian **Ngo**

MSc Statistical Science · University of Toronto

✉ vivianngo14@gmail.com | ⬡ vivianngo97 | 🔗 vivian-ngo-stats

Education

University of Toronto   *Toronto, Ontario*
MSc In Statistical Science   *2019 - 2020*
- Course Instructor - STA220: The Practice of Statistics I (Summer 2020)
- Teaching Assistant - STA130, STA255, STA257
- Statistical Sciences Alumni Mentor (Fall 2019 - Present)

University of Toronto   *Toronto, Ontario*
Honours Bachelor of Science (3.98/4.00 GPA)   *2015 - 2019*
- Teaching Assistant - STA130
- Research Assistant at Rotman School of Management (Fall 2018 - Winter 2019)
- Statistical Sciences Mentorship Director (Fall 2017 – Winter 2018)

Experience

University of Toronto, Department of Statistical Sciences   *Toronto, Ontario*
Course Instructor for STA220: The Practice of Statistics I   *May 2020 - Present*
- Developed and taught course materials, prepared and administered assessments, evaluated student performance, and supervised teaching assistants

Teaching Assistant   *January 2019 - Present*
- STA130: An Introduction to Statistical Reasoning and Data Science (Winter 2019, Fall 2019, Winter 2020)
- STA255: Statistical Theory (Winter 2020)
- STA257: Probability and Statistics I (Summer 2020)

CPP Investment Board, Total Portfolio Management   *Toronto, Ontario*
Senior Intern Analyst in Quantitative Risk   *May 2019 - August 2019*
- Used Python and Github to collaborate and perform impact analysis on risk model used by the Fund.

Bank of Montreal, Technology and Operations   *Toronto, Ontario*
Risk Analyst Intern   *May 2018 - August 2018*
- Analyzed financial data for VP of Technology and Operations Risk using Python and Excel VBA.
- Used Python and Excel VBA to create user-friendly applications for multiple BMO operating groups to help automate processes that are refreshed on a monthly, quarterly or annual basis.

Precima, LoyaltyOne   *Toronto, Ontario*
Business Analyst Co-op, Statistical Analytics   *May 2017 - August 2017*
- Used SQL, Python, Excel, and shell scripts to extract, clean, and transform customer and item-level data for purposes of automation, analysis, reporting, model scoring, and maintenance.

Mathnasium   *High Park, Toronto*
Math Instructor   *November 2015 – April 2017*
- Taught students based on Grade 1 to 12 curriculum using the team teaching method.

Projects

Accelerating Adaptive MCMC using Gradient-Based Methods
Project under supervision of Prof. Jeffrey Rosenthal   *January 2020- PRESENT*
- Improving adaptive MCMC using gradient based methods with a focus on multimodal target distributions.

A Multi-class Classification Tool for COVID-19 and Bacterial Pneumonia Diagnosis using X-ray Imaging Data
Course project for CHL7001: Applied Deep Learning   *May 2020- PRESENT*
- Using deep learning to differentiate between x-ray images of individuals with COVID-19 and bacterial pneumonia.

Exploring Trends within Social and Food–Ideological Groups
Course project for CSC2552: Computational Social Science   *September - December 2020*
- Exploring trends to search for implicit biases and bias propagation in social networks using the 2019 Yelp Dataset.

Related Skills

Programming Python, R, SQL, VBA, LaTeX, *Cisco IT Essentials Certified.*
Teaching Experience teaching students from preschool to first year undergraduate level.
Languages Fluent in Cantonese, Vietnamese, and English.

Honors & Awards

2019	**Coxeter Scholarship in Mathematics**
2019	**Innovator Award** Chengdu 80 Fintech Competition
2019	**Best Use of External Data Award** ASA Datafest
2018	**Later Life Learning Scholarship**
2018	**J.J. Stren Scholarship**
2017	**Samuel Beatty In-Course Scholarship**
2016	**Innis College Exceptional Achievement Award**
2016	**Later Life Learning OSOTF Award**
2015	**Cisco IT Essentials Certification**
2015	**U of T Scholars Award**
2014	**3rd Place** Innovamasters Engineering and Business Competition

References

References available upon request