Quynh P. Vu

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EDUCATION

University of Toronto — Toronto, ON, Canada
M.Sc., Statistics — Sept. 2022 – Apr. 2023
Main coursework: probability theory, mathematical statistics, applied statistics, probabilistic machine learning, and statistical consulting.

York University — Toronto, ON, Canada
Specialized Honours BA., Statistics — Sept. 2018 – Dec. 2021
First Class with Distinction
Main coursework: differential and integral calculus, linear algebra, real analysis, stochastic processes, numerical methods, ordinary and partial differential equations, programming (Python, MATLAB, R)

University of Manitoba — Winnipeg, MB, Canada
B.Sc. in Statistics — Jan. 2017 – Apr. 2018

ACADEMIC EXPERIENCE

University of Toronto — Mississauga, ON, Canada
Department of Mathematical and Computation Sciences
Research Assistant. Advisor: Professor Luai Al Labadi — June 2023 – Present
Developing a Bayesian non-parametric model validation framework for right-censored data based on Kullback-Leibler divergence and the Beta-Stacy processes.

University of Toronto — Toronto, ON, Canada
Department of Statistical Sciences & Data Sciences Institute
Consultant. Advisor: Professor Samantha-Jo Caetano — Jan. 2023 – Dec. 2023
Provided statistical advice to fellows and collaborators in other social and physical science disciplines on the appropriate statistical analysis approach to each respective project.

York University — Toronto, ON, Canada
Department of Mathematics and Statistics
Research Assistant. Advisor: Professor Iain Moyles — May 2021 – Aug. 2021
Performed agent-based modeling to study the effects of antiviral pharmaceutical or non-pharmaceutical interventions on mitigating aerial and surface transmissions of COVID-19 pathogens.

York University — Toronto, ON, Canada
Department of Mathematics and Statistics

Research Assistant. Advisor: Professor Neal Madras   May 2020 – Aug. 2020
Constructed Markov chains for the 4321 and 321 pattern-avoiding affine permutations under periodic boundary conditions and conducted simulation experiments to validate the initial conjectures about the undistorted parallelism and the weak convergence limits ofthese classes of monotone-decreasing affine permutations.

PUBLICATIONS	L. Labadi, Q. Vu. Kullback-Leibler divergence-based Model Validation for Right-Censored Data: Insights from Bayesian Non-parametric Methods – *to be submitted in 2024*
	N.Madras, J. Troyka. (2021). Combinatorics Bounded Affine Permutations II. Avoidance of Decreasing Patterns, In *Annals of Combinatorics*, 2021.

HONORS AND AWARDS		
	Continuing Student Scholarship, York University	2019 & 2021
	Member of Dean's Honour Roll, York University	2019 & 2021
	Dean's Undergraduate Research Award, York University	2020 & 2021

CONTRIBUTED TALKS AND CONFERENCE PRESENTATIONS		
	The Conundrum of COVID-19: The Case of Toronto	
	2023 Statistical Society of Canada (SSC) Annual Meeting	May 2023
	Stochastic modelling of COVID-19 transmission among visitors in theme parks	
	2021 Summer Undergraduate Research	Aug. 2021
	Canadian Undergraduate Mathematics Conference (CUMC)	Aug. 2021
	Bounded affine pattern-avoiding permutations	
	2020 Summer Undergraduate Research	Aug. 2020

TEACHING AND MENTORSHIP		
	University of Toronto	Toronto, ON, Canada
	Teaching Assistant, STA304 Surveys, Sampling and Observational Data	Fall 2022 and Summer 2023
	Teaching Assistant, STA255 Statistical Theory	Winter 2023
	Teaching Assistant, STA221 The Practice of Statistics	Winter 2023
	Mentor, ASA DataFest	May 2023
	York University	Toronto, ON, Canada
	Tutor, Math Kangaroo	Winter 2020
	Tutor, Excel Lassonde	Fall 2018 – Winter 2019

SKILLS AND QUALIFICATIONS	
	Solfware and Programming
	Proficient in: Python (numpy, scikit-learn, pandas, PyTorch, TensorFlow, matplotlib), R (lme4, rstan, tidyverse, ggplot2, splines2), Stan, Git, and LaTeX. Familiar with: SQL, C/C++
	Languages
	English (fluent), Vietnamese (native)