Quynh P. Vu

CONTACT INFORMATION

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EDUCATION

University of Florida Gainesville, FL, USA
Ph.D., Statistics Aug. 2024 – Present
Main coursework: theoretical statistics, regression analysis, statistical inference, computational statistics and optimization.

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)

RESEARCH EXPERIENCE

University of Toronto Mississauga, ON, Canada
Department of Mathematical and Computation Sciences
Research Assistant. Advisor: Professor Luai Al Labadi Jun. 2023 – Apr. 2024
Developed a Bayesian non-parametric model validation framework for right-censored data based on Kullback-Leibler divergence and the Beta-Stacy processes.

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.

OTHER WORK EXPERIENCE

Data Sciences Institute @ University of Toronto Toronto, ON, Canada
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.

INFORMED VIETNAM - VMED GROUP Ho Chi Minh City, Vietnam
Heath Data Analyst Intern Jan. 2022 – Aug.2022
Responsible for collecting electronic health records (EHRs) from case histories of patients in public hospitals located in Ho Chi Minh City and Hanoi (Vietnam) and executing analyses of patients' vital signs (pulse and respiration rates, blood pressure, and oxygen saturation levels) to establish a health index that measures risk factors for metabolic syndrome.

PUBLICATIONS AND PREPRINTS

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

University of Florida Graduate School Fellowship	2024-2025
Dean's Undergraduate Research Award, York University	2020 & 2021
Continuing Student Scholarship, York University	2019 & 2021
Member of Dean's Honour Roll, York University	2019 & 2021

TALKS AND CONFERENCE ABSTRACTS

Invited talks
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 Florida Gainesville, FL, USA
Teaching Assistant, STA3032 Engineering Statistics Fall 2024, Spring 2025

University of Toronto Toronto, ON, Canada

Teaching Assistant, STA304 Surveys & Sampling — Fall 2022, 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

QUALIFICATIONS

Solfware and Programming
Proficient in: Python (numpy, scikit-learn, pandas, PyTorch, TensorFlow, matplotlib), R & R Markdown (lme4, rstan, tidyverse, ggplot2, splines2), Stan, Git, and LaTeX.

Familiar with: SQL, C/C++

MIT OpenCourseWare
6.036 Introduction to Machine Learning

Languages
English (fluent), Vietnamese (native)

Last Updated
December 17, 2024