David Pham

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Education

University of Toronto (St. George)   *Sep 2018 – June 2022*
BSc. Mathematics and Statistics Specialist
Campus Involvement:
- Events and Logistics Coordinator, University of Toronto Vietnamese Students Association
  - Responsible for managing all detailed event logistics including event itineraries, inventory lists, and executive roles to plan official social gatherings that incorporate safe and inclusive practices

Relevant Coursework: Probability and Statistics (I, II), Linear Algebra, Methods of Data Analysis (I, II), Probability Theory, Multivariable Calculus, Sampling Theory, Experimental Design
(in progress): Time Series Analysis, Methods for Multivariate Data, Readings in Statistics

Technical Skills

Python (NumPy, pandas), R (dplyr, tidyverse, ggplot2, knitr), SQL, Tableau, Git/GitHub, HTML & CSS, Excel

Experience

STA130 Mentorship Program   **August 2021 – Present**
- Supporting first-year students with navigating life in university, fostering communities and friendships, and guiding them in the field of statistics
- Creating and hosting social events to encourage community building and adhering to administrative functions

Research Assistant   **Summer 2021**
- Assisted Professor Scott Schieman in his research regarding work, stress, and health among Canadians, with special attention to the effects of the pandemic
- Used **Python** libraries such as **NumPy** and **pandas**, as well as **Excel** to analyze and categorize open-ended survey data with over 3000 entries about Canadians working from home during COVID-19.

Canadian National Exhibition, Lead Attendant/Housekeeper   **Summer 2019**
- Managed a team and surveyed the grounds, ensuring everyone was doing their work and occasionally helped with cleaning and other duties
- Worked independently and with other staff as needed

Tutor   **2018 - 2019**
- Planned and organized one-on-one tutoring sessions in-person as well as Skype/Discord to high school students and people all around the world
- Topics include: introduction to programming, logic, discrete mathematics, and basic algebra

Projects

Report on the Effect of Mortality Rate and Alcohol Consumption Using RDD (R)   **Summer 2021**
- Individual school project aimed to replicate and extend Carpenter's and Dobkin's 2009 study on mortality rate and alcohol consumption using
- Applied linear and quadratic regression discontinuity methods, with drinking age as the threshold
- Used **dplyr** and **tidyverse** to clean data, and **ggplot2** + **knitr** to visualize and present results.

Statistical Analysis of Gender Parity (R)   **Winter 2021**
- Worked in a group for a school project as a consulting firm to assess gender parity in hiring, wages, and promotions for a fictitious software company
- Used statistical inference to evaluate multiple generalized linear (mixed) models and checked assumptions where necessary
- Applied linear, logistic, and poisson regression to wrangled datasets in order to interpret summaries and confidence intervals