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 micromanaging 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 **(completed);** Experimental Design **(in progress)**

Technical Skills

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

Experience

Research Assistant (June 2021 - Present)
- Currently assisting Professor Scott Schieman in his research regarding work, stress, and health among Canadians, with special attention to the effects of the pandemic
- Using Python libraries such as NumPy and pandas to analyze and categorize open-ended survey data 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, discrete mathematics, and basic algebra

Projects

Statistical Analysis of Gender Parity (School Project)
- 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
- Applied linear, logistic, and poisson regression to wrangled datasets in order to interpret summaries and confidence intervals
- Made a professional report to present findings

League of Legends Data Analysis Report (Dec. 2020-Present)
- Made a report trying to establish a relationship between rank in League of Legends and predictor variables such as total number of games played, wins, summoner level, etc. using linear regression
- Used Python's NumPy and pandas libraries to extract and organize data, and R to conduct regression analyses.

Data Visualization for COVID-19 Cases in Toronto (School Project)
- Extensively used tidyr and dplyr libraries to wrangle, parse and transform real-time data from the City of Toronto website on COVID-19 cases in all 140 neighborhoods for a school assignment
- Used ggplot to visualize daily cases, outbreak types and thematic maps that illustrate the percentage of low-income families and the proportion of COVID-19 cases by region