

# 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**)

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## Technical Skills

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

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## 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, logic, discrete mathematics, and basic algebra

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## Projects

### Report on the Effect of Mortality Rate and Alcohol Consumption Using RDD (School Project)

- Individual school project aimed to replicate and extend Carpenter's and Dobkin's 2009 study on mortality rate and alcohol consumption
- 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 (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
- Used statistical inference to evaluate multiple generalized linear (mixed) models
- Applied linear, logistic, and poisson regression to wrangled datasets in order to interpret summaries and confidence intervals

### 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.