

David Pham

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Education

University of Toronto (St. George)

Sep 2018 – June 2022

HBSc. 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: Methods of Data Analysis, Applied Statistics, Multivariate Data, Readings in Statistics

Experience

Research Assistant

01/2022 – 04/2022

- Planned and developed a statistics-themed virtual escape room for the Department of Statistical Sciences (DoSS) to promote statistics education by using **R**, Zoom, and Gather Town
- Created social media content around ethical practice and statistical literacy resulting in over 3000 impressions and 400 combined engagements from UofT's DoSS pages
- Coordinated with professors and other research assistants as a team to ensure smooth release of posts, and delivery of the escape room

STA130 Mentorship Program

09/2021 – 04/2022

- Leading one-on-one meetings with up to 60 first-year students/mentees to talk about navigating life in university, as well as discussing their academic goals and objectives
- Established/maintained respectful, positive, and professional mentoring relationships with students
- Collaborated with other mentors to help plan and facilitate social events in order to encourage community building and offer academic/career advice

Research Assistant

05/2021 – 09/2021

- Assisted a sociology professor 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.
- Attended weekly project meetings, presenting summaries regarding the pros and cons of working remotely based on data

Projects

Independent Readings Course – Ethical Practice for Statisticians

09/2021 – 04/2022

- Was selected to be 1 of 3 students to explore the misuse of statistics in the scientific community and everyday media consumption
- Wrote an educative piece using **RMarkdown** to spread awareness of statistical literacy and ethics, and used **Zotero + BiBTeX** to manage references
- Conducted seminars and research presentations for cohort to synthesise findings and key ideas from a large range of sources

Statistical Analysis of Gender Parity (R)

Project Link

- 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
- Merged and wrangled large datasets to create data visualizations and summaries using **dplyr/ggplot2**
- Used judgment to choose appropriate generalized linear (mixed) models, checked their assumptions, and justified the selection in confidence intervals and significance testing

Technical Skills

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