

# David Pham

davidgort.pham@mail.utoronto.ca - (416)-457-1546 - thegort.github.io

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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
  - Collaborated with 20 executive members among 5 sub teams to facilitate and successfully organize 12 bi-weekly social, cultural, and academic events for 250+ community members

**Relevant Coursework:** Methods of Data Analysis, Applied Statistics, Multivariate Data, Readings in Statistics

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## Experience

### Research Assistant (Statistics Education Developer)

01/2022 – 04/2022

- Planned and developed a statistics-themed virtual escape room for UofT's 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 3500 impressions and 400 combined engagements from UofT's DoSS pages
- Coordinated with professors and 29 other research assistants as a team to ensure smooth release of posts and delivery of the escape room

### Peer Mentor

08/2021 – 04/2022

- Led one-on-one meetings with up to 60 mentees to talk about navigating life in university, as well as discussing their academic goals and objectives
- Established positive and professional mentoring relationships with students, and maintained a 100% satisfaction rate
- Collaborated with other mentors to help plan and facilitate social events to encourage community building and offer academic/career-oriented advice

### Research Assistant (Data Analyst)

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
  - Visualized findings with statistical tables using **Excel** and **R**, and presented summaries in a concise manner
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## Projects

### Independent Readings Course – Ethical Practice for Statisticians

*Project Link*

- Was selected to be 1 of 3 students to explore the misuse of statistics in the scientific community and everyday media consumption
- Wrote a 9-page educative piece using **RMarkdown** to spread awareness of statistical literacy and ethics, using **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 of 4 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
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## Technical Skills

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