

David Pham

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

Education

University of Toronto (St. George)

HBSc. Mathematics and Statistics Specialist

Toronto, ON

2018-2022

Relevant Coursework: Methods of Data Analysis I, II (STA302/1001, STA303/1002), Methods of Applied Statistics (STA442/2101), Time Series Analysis (STA457/2202), Readings in Statistics (STA497)

Professional Summary

Detail-oriented data analyst with extensive experience in managing large-scale data projects, particularly in the education sector. Skilled in data collection, analysis, and reporting, with a strong focus on student financial aid and policy programs. Proven ability to develop comprehensive databases, perform methodological reviews, and deliver insightful reports. Adept at collaborating with cross-functional teams to drive data-driven decisions. Eager to leverage analytical expertise and technical prowess to contribute to impactful research and learn new skills to break into the data science world.

Research/Work Experience

Bilingual Data Analyst

10/2022 - Present

Council of Ministers of Education, Canada

- Serve as the primary data analyst for the Pan-Canadian Indicators on Student Financial Assistance (PCISFA) project, working closely with provincial and territorial partners to collect and analyze large-scale data on student financial aid programs
- Design and maintain a comprehensive database with over 100 indicators, automating data collection and analysis workflows using **Python**, **Excel** and PivotTables
- Produce annual reports featuring detailed visualizations and statistical tables, providing insights to support evidence-based policymaking
- Conduct annual methodological reviews of indicators and data points to ensure accuracy and alignment with provincial, territorial, and federal frameworks

Research Assistant - Statistics Education Developer

01/2022 - 04/2022

University of Toronto, Department of Statistical Sciences

- Planned and developed a statistics-themed virtual escape room using **R** to promote statistical education
- Created social media content around ethical practice and statistical literacy resulting in over 3500 impressions and 400 combined engagements
- Coordinated with professors and 29 other research assistants as a team to ensure smooth release of posts and delivery of the escape room

Independent Readings Course - Ethical Practice for Statisticians

09/2021 - 04/2022

- Was one of three students selected to collaborate with Professor Liza Bolton on statistical ethics research, examining statistical misuse in science and media
- Authored a comprehensive research paper using **RMarkdown**, and presented findings in multiple seminars
- Contributed to discussions on ethical practices for statisticians through bi-weekly meetings

Research Assistant - Data Analyst

05/2021 - 09/2021

University of Toronto

- Assisted Professor Scott Schieman's research on work, stress, and health among Canadians during COVID-19
 - Analyzed survey data with over 3,000 entries using **Python (NumPy, pandas)** and **Excel**, producing visual summaries and statistical tables
 - Presented data insights in concise and accessible formats for academic dissemination
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Projects

Misuse of Statistics: How Not to be an A**hole

Project Link

- Wrote an educative piece with Professor Liza Bolton to raise awareness of statistical literacy and ethical practices
- Managed references and citations using **Zotero** and **BiBTeX** for a professional publication.

Statistical Analysis of Gender Parity (R)

Project Link

- Conducted a comprehensive analysis of hiring, wages, and promotions in a simulated company using R
- Applied data wrangling techniques with **dplyr** and **ggplot2** to create visual summaries and interpret statistical results
- Built reproducible reports using **RMarkdown** and performed model selection and validation for robust insights

Honors and Awards

Language Citation – French

2021

- Award by the University of Toronto for initiative in French learning with at least a mid-B average

Extracurricular Activities

University of Toronto Vietnamese Student Association

2019 – Present

Events/Logistics Coordinator

- Helped facilitate and successfully organize in-person and online events for 270+ club and community members
- Managed detailed event logistics including event itineraries, inventory lists, and executive roles to plan official social gatherings that incorporate safe and inclusive practices
- Collaborated with other executive members to manage and finalize year-long event programming of 12 biweekly social, cultural, and academic events

Technical Skills

- Programming: Python (NumPy, pandas), R (tidyverse, ggplot2, knitr), Git/GitHub
- Data Visualization: Tableau, Excel (PivotTables, Dashboards)
- Technical Writing: RMarkdown, LaTeX
- Languages: Fluent in English and French (Oral and Written)

References Available Upon Request
