

# David Pham

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## Experience

### Bilingual Data Analyst

Oct 2022 – Present

*Council of Ministers of Education, Canada (CMEC)*

- Lead data analyst for the Pan-Canadian Indicators on Student Financial Assistance (PCISFA) project, working closely with 13 provincial and territorial partners to collect and analyze large-scale data, and deliver actionable insights on student financial aid programs.
- Design and maintain a national database with over 100+ indicators, improving reliability and automating data collection processes with **Python** (NumPy, pandas) and **Excel**, reducing manual workload by ~40%.
- Produce annual insight reports featuring **Power BI** dashboards, statistical tables, and trend analyses, translating complex findings into clear, evidence-based recommendations for policymakers and government officials.
- Conduct annual methodological reviews, including data testing, validation, and policy alignment to ensure consistency and accuracy across diverse data sources and evolving policy frameworks.

### Research Assistant (Statistics Education Developer)

Jan 2022 – Apr 2022

*University of Toronto Department of Statistical Sciences*

- Planned and designed an interactive statistics-themed virtual escape room using **R**, collaborating with 30+ team members.
- Created educational content on statistical literacy and ethical practice, generating 3,500+ impressions and 400+ engagements.
- Coordinated scheduling, testing, and QA with faculty and research staff to ensure smooth release of content and delivery of the escape room.

### Research Assistant - Data Analyst

May 2021 – Sep 2021

*University of Toronto*

- Analyzed 3000+ open-ended survey responses using **Python** and **Excel**, applying text processing techniques for a study on work, stress, and health during COVID-19
- Built statistical tables and data visualizations using **R** and **Excel** to communicate key insights for academic presentations and publication-ready materials.

## Education

### Georgia Institute of Technology

Aug 2025 – Aug 2027

*MSc. Analytics (Computational Data Analytics Focus)*

### University of Toronto (St. George)

Sep 2018 – Jun 2022

*HBSc. Mathematics and Statistics Specialist*

## Technical Skills

Python (NumPy, pandas), R (dplyr, tidyverse, ggplot2, knitr), Excel, Power BI, Tableau, SQL, Git/GitHub

## Projects

### League of Legends Data Analysis – Smurf Detection & Ranked Progression

[Project Link](#)

- Analyzed ranked match data using **R** (dplyr, ggplot2) to model rank progression and identify smurfing patterns for a school project.
- Cleaned and merged multi-source datasets from the Riot API, and explored relationships between rank, experience, total games played, and performance.
- Wrote a structured analytical report interpreting statistical results and visualizations for technical and non-technical audiences.

### Independent Readings Course – Ethical Practice for Statisticians

[Project Link](#)

- Was selected to be 1 of 3 students to study statistical misuse in everyday media and scientific research.
- Wrote a 9-page **RMarkdown** report synthesizing academic sources and presented key insights in seminars.