

# FRANCIS EMMANUEL CALINGO

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## SUMMARY OF SKILLS AND QUALIFICATIONS

- **Technical tools:** Python (pandas, NumPy, sklearn), R, SQL, MS Office (i.e., PowerPoint, Excel), Tableau.
- **Data visualization:** Matplotlib, Seaborn, Plotly, Geopandas, ggplot2, Tableau
- **Statistical knowledge:** Exploratory data analysis, probability distribution, hypothesis testing, correlations
- **Other skills:** Quantitative and qualitative research methodologies, presenting to non-technical audiences

## EDUCATION

**Certificate Program, Data Science | Python, SQL, Spark** | University of Waterloo, Online      Expected May 2025  
Coursework: Foundational Data Science, Statistics, Machine Learning, Big Data Management

**DataTalent Upskilling Program | Python, MS Azure** | M2M Tech, Online      February 2025  
Topics Covered: Data Analysis & Visualization, Machine Learning (Classification, Clustering, Regression)

**HBSc. in Applied Mathematics (Statistics Minor) | R, Python** | York University, Toronto, ON      June 2022

- **Relevant coursework:** Statistics, Calculus, Categorical Data Analysis, Mathematical Modelling, Linear Algebra
- **Activities:** Filipino Student's Association at York (FSAY) Outreach Lead (2016-19), Peer Tutor (2017-18)
- **Awards:** \$1500 York Automatic Entrance Scholarship (2015), FSAY Executive of the Year (2019)

## SELECTED PROJECTS

**[Demographics of Filipino Canadians-Elections Canada Project](#) | R | ggplot2, sf, dplyr, corrplot, CatEncoders**  
Conducted statistical, correlation, and geospatial analysis on Filipino Canadian settlement and socioeconomic trends, with findings justifying the agency's need for more Filipino-centred resources for Maritime and francophone regions.

## QUANTITATIVE PROFESSIONAL EXPERIENCE

**Monitoring Agent | MS Excel** | Elections Canada, Gatineau, QC (Telework)      August 2024 – Present

- Conducts weekly comprehensive sentiment analysis of over 5,000 social and news media comments via Excel, utilizing dashboards to present insights which contribute to high-level research on Canadian democracy.
- Supervised a special quantitative and qualitative research project on the Filipino Canadian community and their media presence, resulting in a 200% increase of weekly collated Filipino language content.

**Site Auditor | MS Excel** | Great Canadian Casino Resort Toronto, Toronto, ON      August 2022 – August 2024

- Processed, cleaned, and analyzed data from over 6,000 daily financial transactions via Excel, providing analytical reports to executives and external auditors via Outlook and MS Teams.
- Spearheaded data processing improvements such as alternative Excel formulas that reduced completion time by up to 33%, optimizing workflows and maintaining data integrity.

**PASS Academic Peer Leader | Google Workspace** | York University, Toronto, ON      May 2019 – May 2020

- Facilitated weekly study sessions for calculus courses, adapting instructional strategies based on attendance data, course literature, and session participants' diverse learning pace to improve student participation by 300%.
- Promoted the PASS academic program through various means such as conducting five in-class announcements, weekly dissemination of posters, daily email correspondence, and leading of academic tour groups.

## COMMUNITY LEADERSHIP EXPERIENCE

**Community Leadership in Filipino Youth Organizations | Google Workspace** | Ontario      2016 – Present

- Led data-driven initiatives such as quantitative analyses, which contributed to an 800% increase in FSAY's membership and Filipino Canadian Students Association's (FILCASA's) expansion to 23 member organizations.
- Conducted research on socioeconomic data, which contributed to a record 300 registrations at the 2021 Pinoys on Parliament Conference and Anakbayan's educational workshop series "Realities of Filipino Migration".