

# P. Carmel Marie Frédérique ZAGRE (she/her)

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## SUMMARY

PhD candidate in Economics at Simon Fraser University with strong expertise in causal inference and data analysis. I combine economic theory and advanced analytics to transform complex data into decision-ready insights. My experience spans experimental design, A/B testing, and large-scale data wrangling using Python, SQL, Stata, and Power BI. I am eager to apply research-grade rigor to business problems and drive measurable impact through data-informed decisions.

## EDUCATION

### Simon Fraser University

*Ph.D. Candidate*

Burnaby, BC

Expected 2028

### Simon Fraser University

*M.A. in Economics*

Burnaby, BC

2022

Capstone project: Girls Education in Burkina-Faso : A Demand Analysis (Advisor : Jane Friesen)

### Université du Québec à Montréal

*Bachelor of Science (B.Sc.) in Economics*

Montreal, QC

2020

Capstone project: The Effect of Immigrant Status on School Grades (Advisor : Catherine Haeck)

## SKILLS

**Programming Languages:** Python, Julia, SQL, MATLAB, JavaScript, HTML, CSS.

**Software & Tools:** Stata, Power BI, Microsoft Excel, GitHub, Visual Studio Code, oTree, ArcGIS.

**Analytical:** Causal Inference, Difference-in-Differences (DiD), Event Study Analysis, Regression Analysis, Hypothesis Testing, A/B Testing, Panel Data Analysis, Data Cleaning & Wrangling

**Languages:** English (Fluent); French (native).

## EXPERIENCE

### Simon Fraser University

*Teaching Assistant*

Burnaby, BC

September 2021 – Present

- Delivered seminar tutorials to ~18 students per session, translating complex quantitative concepts into clear, accessible explanations for diverse skill levels.
- Designed and led four weekly seminar sessions, fostering active learning and high student engagement.
- Proctored and supervised exams for 200+ students, ensuring fairness, academic integrity, and standardized evaluation procedures.

### Simon Fraser University

*Research Assistant*

Burnaby, BC

June 2020 – Present

- Designed and implemented interactive experiments using HTML, CSS, and JavaScript to support multiple behavioral research projects.
- Managed data collection for studies with 400+ participants via Prolific, ensuring high-quality and reliable datasets.
- Cleaned, processed, and analyzed datasets of up to 10,000 observations using Stata, Python, and R, improving data accuracy and usability.
- Produced data visualizations in Power BI and supported faculty with empirical analysis and research reporting.

### Upwork

*Freelance Data Analyst*

Burnaby, BC

March 2023– Present

- Conducted literature reviews and synthesized research findings to support data-driven project decisions.
- Diagnosed and resolved code issues for 6+ clients, improving script performance and analytical workflow efficiency.
- Optimized data processing pipelines and provided technical debugging support, increasing client satisfaction and project reliability.