

## EDUCATION

Georgia Institute of Technology | Atlanta, USA

August 2024 - May 2025

Academic Exchange, GPA 3.70

**Relevant coursework:** Data Analysis (R, Python, Tableau, Azure AI), Data Science for Public Policy, Advanced Statistical Methods

Sciences Po Paris | Paris, FR

September 2020 - September 2025

**B.A. Political Science & Government**, Minor: Sociology**Relevant coursework:** Advance Statistical Methods, R Programming for Social Sciences, Calculus III**Thesis:** Analysis of Inequality Regimes (Peru-France)

The University of British Columbia | Vancouver, CA

September 2022 - May 2023

Academic Exchange, Economics and Statistics

**Relevant Coursework:** Statistics and Econometrics (R), Empirical Economics, Intermediate Microeconomic Analysis

## PROJECTS

**CoolCareConnect**, *Energy Consumption Predictive Model (Python/ML)*

August - December, 2024

- Led research project for the JumpIntoSTEM competition targeting reduction of energy burdens (up to 12% of income) and humidity-driven health risks for 2,000+ vulnerable elderly residents in Cook County, GA.
- Engineered a predictive pre-cooling algorithm in **Python** integrating real-time **OpenWeather API** data, building thermal mass characteristics, and Time-of-Use (TOU) rates — achieving a simulated 30% reduction in peak energy usage and 50% cut in carbon emissions.
- Developed the Peak-to-Penalty Energy Ratio, a mathematical framework that automates HVAC load-shifting only when efficiency exceeds a defined threshold — directly applicable to resource-constrained, decision-support contexts.
- Designed a **Randomized Controlled Trial (RCT)** framework to measure the efficacy of automated SMS behavioral nudges on energy consumption.

**Vaccination Opinions Analysis**, *ANES Predictive Modeling, (R/ggplot2)*

August - December, 2021

- Investigated the 60% decline in U.S. COVID-19 vaccination rates by analyzing the ANES 2020 dataset to isolate socio-political predictors of vaccine hesitancy across 8,000+ observations.
- Engineered a multivariate linear regression and **Chi-squared** testing pipeline in R, utilizing **Tidyverse** for data wrangling and recoding complex categorical variables to quantify the drivers of public health compliance.
- Determined that political affiliation served as a significantly stronger predictor of hesitancy than education level, leveraging **ggplot2** to visualize disparate correlation coefficients and provide empirical grounding for targeted interventions.
- Synthesized technical findings into **RMarkdown** documentation and stakeholder reports, translating statistical residuals into actionable outreach frameworks for public health officials.

**romina-reyes.com**, *Full-Stack Web Development, (Next.js/TS)*

April, 2026

- Built a multilingual platform using **React**, **Next.js**, **TypeScript**, and **Firebase** to centralize multidisciplinary research and interactive **Streamlit/Tableau** data visualizations for international institutional audiences.
- Automated content delivery via **Vercel CI/CD** pipelines, ensuring findings remain practically sustainable and continuously accessible.

## LANGUAGES &amp; TECHNOLOGIES

**Modeling & Stats:** Supervised ML (Scikit-learn), Causal Inference (CausalML), RCT Design, Uncertainty Quantification, Statistical Modeling, Multivariate Regression,**Tech Stack:** Python (Pandas, NumPy, PyTorch), R (Tidyverse, ggplot2), SQL, Git, Docker.**Data Visualization:** Tableau, Streamlit.

## PROFESSIONAL EXPERIENCE

Community Consulting Teams Atlanta | Atlanta, USA

January 2025 - June 2025

**Strategy Consultant**

- Led a strategic gap analysis for NGO Covenant House International, conducting 20+ stakeholder interviews to identify operational bottlenecks in cross-border youth housing programs.
- Secured unanimous Board approval for a 3-year roadmap by applying the RACI/BPRS frameworks to translate technical data findings into a prioritized list of 15 new strategic alliances.

Ronald McDonald House Charities | Lima, PE

July 2021 – September 2021

**Public Policy Data Intern**

- Standardized 1,500+ fragmented clinical records by engineering a data cleaning pipeline in Python, reducing data entry errors by 40% and enabling the organization's first predictive modeling capability.
- Identified 3 specific patterns of pediatric treatment abandonment, allowing the policy team to reallocate 15% of the outreach budget to high-risk demographic clusters.

## LEADERSHIP &amp; AWARDS

**Global Finalist & Alumni** - Aspire Institute (Harvard-founded)

February 2023 - Present

- Top 800 from 52,000 applicants across 100+ countries (1.5% acceptance rate).
- Executive leadership and social impact training by Ivy League educators.

**National Delegate** for Lima - Peru National Youth Congress 2019

October 2019 - December 2019

- Elected as 1 of 10 most relevant youth leaders from 90 Lima candidates to define national public policy priorities.
- Presented the National Youth Policy directly to President Martin Vizcarra and the Council of Ministers at the Government Palace.

**Founder & President** - No Estas Solo NGO

November 2014 - December 2020

- Scaled to 100+ active volunteers; executed 4 annual donation campaigns, mobilising \$5,000+ USD for vulnerable populations.
- Achieved Official Accreditation from Peru's National Youth Secretariat (SENAJU).