

REGINA I. MEDINA

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EDUCATION

The University of Chicago Chicago, IL
MS in Computational Analysis and Public Policy Expected Jun 2025
Courses: Algorithms, Software Engineering, Databases, Cloud Computing, Parallel Programming, Web Dev., ML

Center for Research and Teaching Economics Aguascalientes, MX
BS in Public Policy (Valedictorian) Jun 2020
Courses: Data Science, Quantitative Methods, Program Evaluation, Policy Analysis

SKILLS

Languages: Go, Python, SQL, bash, JavaScript, C, Matlab, HTML, Markdown, Stata
Tools: AWS, SQLite, PostgreSQL, git, cron, Flask, JSON, http, RESTful APIs, Stripe, QGIS, PyDeck, Pytorch, Polars
Certificates: Business and Economics (Cum Laude distinction, Institute D'Études Politiques de Paris)

PROFESSIONAL EXPERIENCE

Mansueto Institute for Urban Innovation Chicago, IL
Data Science Fellow May 2024 - Present

- Built an automated data pipeline to extract unstructured data from the Chicago Transit Authority (CTA) API and transform it into standardized data sets for analysis with Python
- Processed 110 million real-time bus location pins, representing over 10 million bus trips from 2022, to 2024 to convert them into imputed time stamps of each bus visit to every bus stop to feed a public dashboard with performance statistics and visualizations

Harris School of Public Policy Chicago, IL
Graduate Research Assistant Feb 2024 – Present

- Developed Python web scrapers to extract information from over 1,800 html tables and build an abortion policy tracker that contains information for 50 US states and 4 different types of policies from 2016 to date

México, ¿Cómo Vamos? (MCV) Mexico City, MX
Data Coordinator Feb 2023 – Jun 2023

- Administered and automated all MCV data products, including [44 economic dashboards](#), eight micro-sites (*i.e.* [inflation website](#)) and 15 indicators –with 44.1k monthly visits– that provide easily digestible economic information to empower citizens to participate in complex policy discussions
- Led five research projects for private sector (Vanguard, SOHIN group) and public sector (the county of Nuevo Laredo) that required economic analysis tailored to their needs to guide their policy making decisions

Data Analyst Jun 2021 – Feb 2023

- Improved efficiency of data processing by substituting Excel sheets with automatic data pipelines reliant on APIs and R, reducing the time to update indicators in 87%

Intersecta Mexico City, MX
Data Analyst Jan 2021 – Feb 2023

- Enhanced data processing workflows using GitHub and R, increasing the reproducibility of all the analysis
- Produced statistical evidence for 10 reports, 2 book-chapters and 5 newspaper articles backing policy recommendations

SELECTED PROJECT

Genomics Annotation Services Fall 2025

- Constructed a genome annotation web application and to handled concurrent requests using AWS services (EC2, DynamoDB, S3 Buckets, Glacier, SQS-SNS, Lambda Functions, State Machines, Load Balancer)
- Built back-end infrastructure to handle an asynchronous annotations pipeline with Python, bash, and PostgreSQL
- Deployed front-end that allows users to upload files, track jobs status, download results, and submit payments