Santiago Monroy

Economics | Data & Research | Energy & Technology Policy

⚲ Washington, DC | 🌐 U.S., French & Mexican Citizen (No Visa Sponsorship Required)

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Summary

Professional with three years of experience as a research and policy analyst in energy markets, technology policy, and economic analyses. Strong background in quantitative research, data analysis, and policy interpretation. MS in Energy & Climate Policy (graduated top of class) and dual bachelor's degrees in economics & government/public policy. Writes and researches about emerging technologies, energy economics, and global economic policy. Proficient in data visualization, economic modeling, and policy research, using Excel, STATA, and Python. Fluent in Spanish, English, and French. Fully authorized to work in the U.S.

Education

MSc, Energy & Climate Policy (GPA ~3.8 U.S. equivalent) | University of Sussex
⚲ SEPTEMBER 2023 – OCTOBER 2024, BRIGHTON, UK
- **Top Student of the Program (79%):** Graduated with highest overall mark.
- **Thesis (Highest Grade: 92%):** Applied Python-based analysis to examine how macroeconomic factors (interest rates, inflation) influence the cost of capital for solar PV projects in Brazil, discovering that rising financing costs constrained potential LCOE reductions despite technological advancements.
- **Coursework:** Quantitative Methods, Science/Technology/Innovation Policy, Energy and Industrial Policy, Policymaking and Analysis. Emphasis on analytics, large datasets, and research methods.

BA, Government and Public Policy (GPA ~3.4 U.S. equivalent) | Universidad Panamericana
⚲ AUGUST 2016 – DECEMBER 2021, MEXICO CITY, MX

BSc, Economics (GPA ~3.4 U.S. equivalent) | Universidad Panamericana
⚲ AUGUST 2016 – DECEMBER 2020, MEXICO CITY, MX

Other notable courses (non-exhaustive):
Bloomberg Finance Fundamentals – Bloomberg for Education (2025)
Bloomberg Market Concepts – Bloomberg for Education (2024)
The Data Analyst Course (Python) – Udemy (2024)
The Essential Guide to Stata – Udemy (2024)

Professional experience

Energy Consultant | EnergeA StructurA
⚲ APRIL 2022 – AUGUST 2023, MEXICO CITY, MX
- Led a team of two junior consultants to design quantitative models, data analyses, and literature review for Mexico's Treasury Ministry on fiscal incentives and energy policy.
- Managed Python/Excel modeling for national-level projects—evaluating incentives, cost-benefit scenarios, and policy feasibility for electromobility, renewables, and hydrocarbon activities.
- Designed tax incentives for renewable energy, electromobility, and waste management.
- Benchmarked international best practices to propose reforms for Mexico's Hydrocarbon Exploration and Extraction Activity Tax (IAEEH) and compensation fund for environmental and social damages.
- Developed visual reports & policy briefs, ensuring accessibility of complex energy data.
- Contributed to expert economic reviews of proposed constitutional reforms in the hydrocarbons and electricity sectors, analyzing their implications for market competition.

Research Analyst | National Council for Science and Technology (CONACYT)
⚲ JUNE 2020 – DECEMBER 2020, MEXICO CITY, MX
- Contributed to empirical research on the effectiveness of regulations aiming to reduce drug consumption.

- Enriched qualitative datasets (interviews, q-sorting) to inform evidence-based policy recommendations.

Consultant | Economic, Finance & Law Consulting Group
⚲ JUNE 2019 – OCTOBER 2020, MEXICO CITY, MX

- Researched economic, political, and environmental issues supporting legislative strategies and public policy planning in areas including hydraulic resources, energy poverty, waste management, and the circular economy.

Intern | Energy Regulatory Commission (CRE)
⚲ AUGUST 2018 – DECEMBER 2018, MEXICO CITY, MX

- Updated and analyzed electricity rate files and collaborated on invoice reviews and operational assessments, supporting data-driven regulatory oversight.

Languages

Spanish: Native **| English:** Fluent **| French:** Fluent

Additional skills

Software: Excel (Advanced), STATA (Intermediate), EViews (Intermediate), Python (Basic), SQL (Basic).
Data Visualization & Presentation: PowerPoint (Advanced), Canva (Advanced), Flourish (Advanced), Datawrapper (Advanced), Tableau (Basic).
Additional Tools: Qualtrics, Miro.

References

Available on request.

Projects and Publications

Github Profile: Link
Data repository and Python scripts for my MSc thesis on WACC calculations, LCOE modeling, and scenario analysis for Brazil's solar PV sector, and other projects.

Substack – "Risks, Rates, Robots, and Rays": Link
Publish articles analyzing emerging trends in trade, energy, economics, and emerging technologies, with a focus on the U.S. and Mexico.