

GABRIEL PENEDO

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

University of Pittsburgh, Pittsburgh, PA April 2026

Master of Science in Quantitative Economics |

GPA: 3.55

University of Pittsburgh, Pittsburgh, PA April 2024

Bachelor of Science in Economics |

Major GPA: 3.7

RELEVANT GRADUATE COURSEWORK

Big Data and Forecasting in Economics | Economic Inference from Data (Causal Inference, IV, DiD, RDD) | Quantitative Methods | Evidence-Based Analysis in Lab | Applications of Economic Analysis | Global Economics and Finance | Capstone (Applied Data Pipeline and Dashboard)

RESEARCH AND DATA EXPERIENCE

GIS Analyst Intern | *UpstreamPGH, Pittsburgh, PA*

April 2026 – Present

- Build open-source neighborhood-level environmental map integrating public datasets to inform community policy decisions
- Apply innovative rain monitoring tools in ArcGIS to demonstrate environmental concerns quantitatively.
- Assist in canvassing efforts. Including but not limited to survey question engineering, and high level implementation of data collection.

Applied Data Scientist & Project Lead | *Frontline Gig, Pittsburgh, PA*

December 2025 – Present

- Lead drone-based environmental data collection program partnered with community organizations; earned FAA Part 107 Remote Pilot Certificate for commercial aerial data acquisition
- Build and maintain pipelines to visualize inspection data, tree canopy coverage, and project reach for executive and city stakeholders
- Developing open-source tree inventory pipeline using OpenDroneMap, DeepForest (deep learning canopy detection), and GeoPandas for automated inference from drone imagery
- Created ML algorithm for detecting optimal inspection locations; streamlined inspection-to-reporting pipeline improving data quality and de-duplication
- Clean, geocode, and prepare geospatial datasets (CSV, shapefiles) with geographic boundary filtering for ArcGIS Online integration
- Fostered three cross-sector partnerships spanning academia, green construction, and environmental policy

Data Consultant | *University of Pittsburgh (SHRS), Pittsburgh, PA*

January 2026 – April 2026

- Built end-to-end data pipeline and dashboard combining external, internal, and derived datasets for the School of Health and Rehabilitation Sciences
- Created the organization's first data-driven decision-making system; optimized UI for non-technical stakeholder use
- Analyzed client datasets to identify trends and communicate complex findings through data visualization

INDEPENDENT PROJECTS AND PUBLICATIONS

ESGVerify — Open-source greenwashing detection tool

- Built local-LLM-based tool to estimate the proportion of greenwashed text in corporate sustainability reports; end-to-end NLP pipeline from text extraction through classification and evaluation

Repository: github.com/gabrielpriante/esgverify

EnviroEcon.com — Environmental economics AI blog

- Weekly articles analyzing the intersection of economics and environmental policy; translating research into accessible, actionable insights

Repository: enviroecon.com

Green Bond Tracker — Open-source geospatial green bond tracker

- Lightweight tracker for green bonds and sustainability-linked projects with portfolio-level geospatial insights

Repository: github.com/gabrielpriante/green-bond-tracker-project

GIS Spatial Analysis — Coursework project using field data from Frontline Gig

Repository: github.com/gabrielpriante/gis_spatial_analysis

Drone Tree Inventory Pipeline — OpenDroneMap, DeepForest, GeoPandas

- Open-source workflow combining drone imagery, machine learning canopy detection, and geospatial analysis

Repository: github.com/gabrielpriante/drone-tree-pipeline

SELECTED WRITING

“Using Regulatory Agencies to Mitigate Greenwashing: A Policy-Oriented White Paper” (December 2025).

Synthesizes environmental economic theory, externality frameworks, and the Environmental Kuznets Curve into an actionable regulatory strategy for combating corporate greenwashing. Written for ECON 2801:

Communicating Economic Insight (Grade: A).

TECHNICAL AND LINGUISTIC SKILLS

Programming: Python, R, C++, C, SQL, HTML, CSS

ML & NLP: LLMs, NLP Pipelines, Text Classification, Retrieval Systems, DeepForest, Model Evaluation

GIS & Spatial: ArcGIS Pro, ArcGIS Online, ModelBuilder, GeoPandas, OpenDroneMap

Data & Analytics: Tableau, Jupyter Notebooks, Microsoft Excel, Statistics, Data Visualization, Six Sigma

Cloud & Tools: AWS, Azure, Git, API Integration, Drone Data Workflows

Languages: English (Native), Portuguese (Fluent)

CERTIFICATIONS AND AWARDS

FAA Part 107 Remote Pilot Certificate

May 2026

FAA-certified license to operate unmanned aircraft for commercial data collection

LEED Green Associate (GBCI)

March 2026

Sustainability credential demonstrating knowledge of green building practices and environmental design

2026 Pitt Sustainability Champion

2026

Recognized for advancing sustainability across campus and beyond

Google Advanced Data Analytics Specialization

January 2025

Python-based certificate with proficiency in Tableau and Jupyter Notebooks

ADDITIONAL PROFESSIONAL EXPERIENCE

Area Manager | Amazon, Sacramento, CA

July 2024 – February 2025

- Managed 50+ direct reports; utilized daily performance metrics for departmental efficiency analysis
- Led cross-functional operations meetings; received return offer based on performance

Area Manager Intern | Amazon, Jacksonville, FL

May – August 2023

- Led process-improvement project applying data analytics and Six Sigma to identify \$1.6M in annual cost savings

Undergraduate Teaching Assistant | University of Pittsburgh

August – December 2022

- Taught two sections of ECE 0401 (Differential Equations and Linear Algebra) to 70+ students, three lectures per week