

ROSE BARRAGAN

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GLAD TO CONNECT

I am a Master's candidate in Data Analytics and Policy at the University of Pennsylvania, with a deep passion for creating transformative, ethical, and human-centered Artificial Intelligence solutions. My work bridges technology, policy, and analytics, combining technical expertise with a commitment to fostering equity and accountability in emergent technologies. My goal is to design and implement solutions that prioritize a human-centered approach, embedding ethical principles and strategic value for clients and broader society.

CORE COMPETENCIES

- Cross-Team Collaboration & Fostering Team Culture
- Transforming Data into Actionable Insights
- Critical Thinking and Problem-Solving oriented
- Adaptability and Innovation
- Learning new tools and processes quickly
- Time Management and Prioritization
- Public Speaking and Presentation
- Thinking outside the box to bring fresh ideas
- Resilience & Continuous Learning

RESEARCH PUBLICATIONS, WHITEPAPERS & PROJECT PORTFOLIO

- Visit www.rosebarragan.com

MOST RECENT EDUCATION

MASTER OF SCIENCE (MS) IN DATA ANALYTICS AND POLICY
University of Pennsylvania

August 2023 – May 2025

Relevant Courses: • Practical Programming for Data Science • Critical Data Studies in Algorithmic Governance • Applied Linear Modeling • Community Mapping (ArcGIS) • Practical Machine Learning Methods (LLMs) • Research and Evaluation Designs • Advocacy in Emergent Technology and Society • Research and Evaluation Design • Telling Stories with Data

International Social Initiatives: • Spearheaded a women empowerment initiative in rural **India**, focusing on technological skill development and driving economic independence. Leveraged technology to transform traditional practices, fostering financial inclusion through Self-Help Groups (SHGs) in underdeveloped communities.

Technological Entrepreneurial Initiatives:

- **LADAI Fellowship** is the solution to the underrepresentation of Hispanic women in STEM, particularly in data analytics and AI. By providing a comprehensive program that offers tools, practical workshops, mentorship, and hands-on experience to empower Hispanic women to excel in data-driven roles.
- **Harm Reduction Self-Assistance SVM:** To combat drug overdoses, we look to install Smart Vending Machines across the city to safely dispose of used needles, collect health data through drug users and SVMs, and dispense free overdose reversal meds.

PROFESSIONAL EXPERIENCE

GRADUATE STUDENT INTERN

Feb 2025 – Present

Equal Measure Philadelphia

Contributed to the Gates Foundation's mission of advancing postsecondary equity by strengthening data analytics skills and supporting research at Equal Measure. Focused on developing and deploying innovative tools to automate and scale digital learner support, enabling postsecondary professionals to effectively address student needs and foster their success.

AI ETHICS GRADUATE RESEARCH FELLOW

Jan 2025 – Present

SAFELab

Philadelphia

The SAFELab is a multidisciplinary research lab employing qualitative and computational methodologies anchored in reflexive social work values to drive data-centric research on social justice, where I engaged in diverse research activities, including data analysis, thematic exploration, literature synthesis, grant writing, data collection, and project coordination, contributing to impactful, equity-focused research initiatives.

ASSOCIATE INSTRUCTOR IN PREDICTIVE ANALYTICS

Feb 2022 – Present

United Nations System Staff College (UNSSC)

- **Designed** and delivered a specialized curriculum on machine learning, data visualization, and analytics tailored to complex UN operational contexts under the mentorship of Mrs. Itziar Arispe Ruiz.
- **Applied** expertise in data manipulation, exploratory analysis, and predictive modeling, emphasizing ethical AI in global initiatives.
- **Developed** advanced modules on neural networks, decision trees, and ensemble methods to enhance predictive analytics capabilities.
- **Promoted** knowledge sharing and innovation in data science across UN entities, addressing humanitarian and development challenges.

TEACHING ASSISTANT FOR DEMOCRATIZING DATA: CRITICAL DATA STUDIES IN ALGORITHMIC GOVERNANCE

Aug 2024 – Dec 2024

The University of Pennsylvania

- **Supported** the delivery of a course exploring the ethical, legal, and technical dimensions of data democratization and its application to social policy challenges in health, education, and social justice.
- **Managed** the course platform (Canvas), graded assignments, and contributed to the development of innovative coursework.
- **Provided** academic support by addressing content-related queries and clarifying assignment expectations.
- **Assisted** students in applying computational tools, data analytics, and visualization techniques to address real-world policy issues.

ARTIFICIAL INTELLIGENCE STRATEGIC CONSULTANT

Aug 2020 – Aug 2023

NTT DATA EMEAL

- **Developed** Ethical AI frameworks to address bias, transparency, and accountability in AI systems.
- **Ensured** compliance with regulations like the EU AI Act and Data Act, aligning AI strategies with legal and ethical standards.
- **Designed** an AI Maturity Assessment tool to evaluate and enhance organizational AI strategies.

Key Achievements:

- **Co-created** with Google a booklet on AI use cases for the retail-fashion sector, driving innovation and operational efficiency, leveraging Google AI solutions.
- **Mapped** AI applications to business functions, improving customer engagement and competitive advantage.
- **Leveraged** Gartner insights to inform strategic planning and strengthen competitive intelligence.
- **Translated** data trends into actionable strategies, enhancing market positioning and global methodologies.

AWARDS AND RECOGNITION

- **Fulbright Scholarship** – 2023-2025
- **Women in STEM Scholarship P.E.O International Peace Scholarship** – 2023-2025
- **Wendy & Matthew Cherwin Scholarship** University of Pennsylvania - School of Social Policy and Practice – 2023-2025
- **MSSP + DA Student Committee Representative and Member of the SP2 General Assembly** – 2024
- **Shanghai Summer Scholarship (S3)** Shanghai Government and Confucius Institute – 2022
- **DONA TIC 2021 Award for Best Business Initiative**, advancing the message of “CoE Women on Artificial Intelligence Fairness!” – 2021

ADDITIONAL EDUCATION & CONTINUOUS LEARNING

Additional Education

- **DOUBLE MAJOR IN LAW AND BUSINESS ADMINISTRATION AND MANAGEMENT (BA) HONORS** Aug 2015 – Aug 2020
Colegio Universitario de Estudios Financieros (CUNEF)
Law Thesis (Honors): “European Union Law: Techlaw - An approach to the European legal protection of citizens’ rights and freedoms against automated decision-making by biased AI algorithms.”
Business Thesis: “Pioneering a disruptive digital transformation in the Spanish banking sector.”
- **Executive Program in Computer Science and Artificial Intelligence – MIT Sloan School of Management and the MIT Computer Science and Artificial Intelligence Laboratory (CSAIL)**
- **International Diploma Program in Business Administration – University of California, Berkeley**
- **Business Administration and Law – Boston University Metropolitan College**

Certifications (Continuous Learning)

- **Google Cloud Data Analytics** by Google (2025)
- **Google AI Essentials** by Google (2025)
- **Artificial Intelligence and Productivity** by Google & Banco Santander (2024)
- **Introduction to Quantitative Social Policy Analysis** by University of Pennsylvania (2023)
- **Digital Experience: Data Science** by Immune & Banco Santander Certificate (2022)
- **Present & Engage** by Fundacion Estatal para la Formacion y Empleo (2022)

ADDITIONAL SKILLS

- **Technical Skills:** • Python • R • GIS • SQL • RawGraphs • Canva • Tableau • PowerBI • Microsoft 365
- **Languages:** • Spanish (Native) • English: Proficient (C2) • Mandarin Chinese: HSK Level 5 • French: Intermediate Proficiency (B1)
- **Organization’s Training:** • GDPR • Introduction to Secure Development • Environmental and Energy Management • Positive Communication • Remote Management and Working
- **Community Involvement:** WWF • ACCT Philly • UPenn Graduate Hiking Club • Wharton Sailing Club • Wharton Equestrian Club • Wharton Food Club • Wharton Outdoors Club