

Carlos Mauricio Peredo, Ph.D.

Senior Researcher | Principal Investigator | Data Scientist

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Work Experience

Senior Research Scientist | 2024–current

Equity Research Team, Western Governors University

- Identified key metrics to evaluate the success of financial aid initiatives
- Designed and led pilot studies to test and refine strategies for optimizing financial aid distribution
- Developed predictive models with metrics to evaluate and prioritize equity in overall financial aid strategy and decision making

Principal Investigator & Senior Researcher | 2022–2024

Peredo Comparative Morphology Lab, Miami University

- Supervised a team of 6–10 junior scientists working on technical publications
- Led an international collaboration that brought local science to stakeholders to inform corporate and public policy initiatives
- Created a predictive model combining Neural Networks and Random Forests to solve problems with fragmentary datasets
- Conceived and implemented Computer Vision algorithms to optimize inventory management protocols

Principal Investigator | 2019–2022

Peredo Comparative Morphology Lab, University of Michigan

- Supervised a team of 3–5 junior scientists working on technical publications
- Designed innovative research methodologies
- Transformed datasets into educational museum exhibits for all ages

Research Scientist | 2014–2019

Smithsonian NMNH & George Mason University

- Team lead of a science diplomacy initiative for a federal agency
- Developed and implemented standardized protocol for collecting, processing, and future-proofing 3D digital datasets
- Consulted for science educational broadcasting which aired on PBS and BBC

Education

- **Ph.D.**, Environmental Science and Public Policy, George Mason University
- **M.S.**, Environmental Science and Public Policy, George Mason University
- **B.S.**, Biology, Seton Hill University

Research & Publications

- 20 peer reviewed research articles (11 first authored)
- > \$500,000 USD awarded in external funding
- 23 conference abstracts (16 first authored)

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Skills

Data Science & Artificial Intelligence

- R & RStudio
- Python & Jupyter Notebooks
- SQL & Databricks
- Git & GitHub
- Computer Vision
- Neural Networks (NNAs)
- Natural Language Processing (NLPs)
- Random Forest Classifiers
- Predictive Modeling

Research & Statistics

- Quantitative Analytics
- Experimental Design
- Mixed Methods Research
- A/B Testing
- Descriptive Statistics
- Inferential Statistics
- Bayesian Inference
- Causal Inference
- Qualtrics
- SAS Analytics Software
- IBM SPSS Statistics
- MATLAB

Data Visualization & Modeling

- Tableau
- Power BI
- Qualtrics
- LucidChart
- Mimics
- Artec Studio
- Autodesk Fusion360
- Maya
- Adobe Creative Suite
- Microsoft Suite

Languages

- English (native)
- Spanish (native)

Certifications

- **Ethical Management of Human-Sourced Datasets** | Miami University
- **Inclusive Workplace Management** | Miami University
- **Mental Health First Responder** | Miami University

Leadership Philosophy

I believe in data-driven decision making.

Let's think big and take calculated risks. Analytics help us get it right.

I believe in creating clarity from chaos.

Let's cut through the noise, tell a compelling story, and blaze the path forward.

I believe data have context.

Behind every dataset are real people. Let's take care to act with ethics and integrity.

I believe in putting people first.

Creativity fosters ingenuity. Let's cultivate curiosity and lead with compassion.