

Julio E. Herrera Estrada, Ph.D.

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Professional Experience

BlackRock, New York, NY

Associate

May 2021 – Present

Researcher within the Aladdin business, working on models to quantify the financial impacts of climate change.

- Lead project management and execution of models on wildfires, droughts, and water scarcity
- Do due diligence for acquisitions of climate risk models and investments in related companies
- Support strategic planning, product marketing, and business development for Aladdin Climate

Descartes Labs, Inc., New York, NY

Applied Scientist

Aug 2019 – May 2021

Start-up focused on delivering solutions to government and businesses using geospatial data (e.g., satellite imagery).

Led a team of three scientists to successfully support top global CPG firm pursue its sustainable sourcing goals. Supported Product, Sales, and Marketing, and performed strategic planning to identify opportunities in climate risks.

Stanford University, Stanford, CA

Postdoctoral Scholar

Oct 2017 – Aug 2019

Led original research projects in the Department of Earth System Science. Published three original research articles on drought risks, co-authored two others on drought and flood risks, and gave eight academic presentations.

World Bank, Washington, DC

Short-term Consultant (Remote)

Apr 2018 – Oct 2018

Contributed to risk financing project in Mauritania as part of the Disaster Risk Management and Urban Development Unit. Wrote three reports to support investments in hydro-meteorological services in West Africa.

Princeton University, Princeton, NJ

Graduate Researcher

Sep 2012 – Sep 2017

Published two original research articles on droughts and climate change, co-authored two others on hydrological modeling and climate risks to agriculture, and gave nine academic presentations.

Summary

Over 10 years of experience managing projects on climate risks. Effective communicator with clients, partners, and teammates. Proven track record of entrepreneurial spirit and effectively supporting strategic planning, product marketing, and business development within cross-functional teams. Interested in enabling communities and businesses achieve an orderly transition to net-zero and increase their resilience and prosperity.

Education

Princeton University

Ph.D., Environmental Engineering
2017

Graduate Certificate in
Environmental Policy

Columbia University

B.S., Applied Mathematics
2012

Skills

Computing: Python, Git, Unix,
Google Cloud Platform

Data Science: Regression
analysis, time series analysis,
geospatial statistics, machine
learning.

Languages: Spanish (native),
French (limited working proficiency)

Awards

WRR Editor Choice Award

Stanford Data Science Scholar

Graduate Student Leadership
Award

NASA Earth and Space Science
Fellowship