

Julio E. Herrera Estrada

herreraestrada@stanford.edu | www.herreraestrada.com

EDUCATION

Ph.D. in Civil and Environmental Engineering, **Princeton University**, Princeton, NJ 11/2017

Graduate Certificate in Science, Technology, and Environmental Policy

Fellowships and Awards: NASA Earth and Space Science Fellowship, Wu Graduate Fellowship in Engineering, Graduate Student Leadership Award.

B.S. in Applied Mathematics, **Columbia University**, New York, NY 05/2012

Fellowships and Awards: C. Prescott Davis Scholar, Mentor Appreciation Award, Scholars Program Summer Enhancement Fellowship, Summer Undergraduate Research Fellowship.

RELEVANT EXPERIENCE

Department of Earth System Science, Stanford University Stanford, CA

Postdoctoral Scholar

10/2017 – Present

- Quantify climate risks to the power sector globally using statistical analyses of satellite observations.

Social, Urban, Rural, and Resilience Global Practice, The World Bank Group Washington, DC

Short Term Consultant

05/2018 – 10/2018

- Provide technical advice for the preparation of hydrometeorological services investment projects in Africa.

Department of Civil and Environmental Engineering, Princeton University Princeton, NJ

Graduate Research Assistant

02/2013 – 09/2017

- Developed creative approaches to study the causes of droughts and their impacts on the power sector.
- Led four original and technical research projects and contributed to two others as part of collaborative teams.
- Took initiative to pursue new ideas and to find funding and professional development opportunities.

Water Program, International Institute for Applied Systems Analysis (IIASA) Laxenburg, Austria

Young Scientists Summer Program

06/2015 – 08/2015

- Established innovative framework to study how droughts evolve while working under minimal supervision.
- Initiated collaboration to study adaptive capacity for drought risk management across North America.

Task Force on the Future of the Graduate School, Princeton University Princeton, NJ

Invited Member

09/2014 – 06/2015

- Contributed to strategic planning process as part of a team of twenty administrators, faculty, and students.
- Organized focus groups of graduate students to assess strengths and weaknesses of The Graduate School.

Engineers Without Borders Student Chapter, Columbia University New York, NY

Water Team Member, Uganda Program

09/2010 – 04/2012

- Worked in a team of ten students to design a rainwater harvesting system for a school in rural Uganda.

LEADERSHIP EXPERIENCE

Highwire Earth: Insights on Sustainable Development, Princeton University Princeton, NJ

Co-Founder and Editor-in-Chief

02/2015 – 05/2017

- Set the vision and growth strategy for the creation of a new interdisciplinary online publication.
- Delegated work amongst team of four, recruited new contributors, and oversaw outreach on social media.

Department of Civil and Environmental Engineering, Princeton University Princeton, NJ

President of the Graduate Student Representatives

09/2014 – 09/2015

- Engaged with the student body to identify priority areas and to develop and implement new initiatives.
- Led bi-weekly meetings to assess progress and delegated work amongst team of four graduate students.

Latino Graduate Student Association, Princeton University Princeton, NJ

President

09/2013 – 09/2014

- Directed monthly meetings with team of eight students to evaluate priorities and agree on responsibilities.
- Chaired planning committee in charge of organizing a national academic graduate student conference.

SKILLS

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

Computer: Python, MATLAB, R, Mathematica, ArcGIS, Microsoft Office, Linux, MacOS X, Windows.