Position Title: **Postdoctoral Fellow - Interdisciplinary Climate Science**
Salary: $60,000/year
Location of Position: University of Puerto Rico
Mayagüez Campus
Department of Physics
Atmospheric Science and Meteorology Program

JOB DESCRIPTION AND DUTIES

The University of Puerto Rico at Mayagüez (UPRM) is opening a **Postdoctoral Fellow** position in the Physics Department as part of the Atmospheric Science and Meteorology Program. This position is one of two postdoctoral fellowships anticipated under the UPRM Resilience and ActIon–Climate Research and its Effects on Society (RAICES) Initiative– a partnership between UPRM and NSF National Center for Atmospheric Research (NSF NCAR) that seeks to support convergent atmospheric and climate science research in Puerto Rico and the Caribbean. We are searching for an independent and self-motivated scholar to work under the supervision of the RAICES team: Dr. Hector Jimenez and Dr. Manuel Valdes-Pizzini from UPRM and in collaboration with Dr. Giovanni Seijo-Ellis (UPRM), Dr. Alexandra Ramos (NSF NCAR) and Dr. Rosimar Rios-Berrios (NSF NCAR) on projects **focused on research in tropical cyclones hazards and actionable regional climate science**. The fellow is expected to:

- Conduct a comprehensive analysis of the current state of knowledge of tropical cyclones and related hazards (e.g., extreme winds and precipitation, storm surge) in Puerto Rico and the broader Caribbean region.
- Identify modeling and observational gaps and potentially conduct model simulations of tropical cyclones accordingly.
- Develop scientific research activities relevant to actionable and convergent atmospheric science.
- Assist in developing and fostering community partnerships between research groups and institutions, and outreach and education groups by seeking input from all stakeholders regarding issues of climate impacts and adaptation strategies.
- Collaborate with researchers and students in the Physics Department, Social Sciences Department and other relevant programs. Can assist in advising undergraduate students on summer research projects.
- Collaborate with colleagues at NSF NCAR.
- Publish research results in conferences and peer-reviewed journals.

Additionally, the selected candidate is encouraged to participate in other research, educational and outreach activities of interest as part of the RAICES initiative.

This is an in-person, full-time postdoctoral fellow position at UPRM. The starting salary will be $60K with benefits, including healthcare. The term of the position is for one year, with the

possibility of renewal for an additional year contingent on satisfactory progress. While the start date can be flexible, the team is expecting the candidate to begin early Summer 2025.

REQUIRED QUALIFICATIONS

- A Ph.D. and/or demonstrated research experience in fields including, but not limited to, atmospheric and climate sciences, physical geography, environmental sciences, tropical meteorology, extreme weather, or related fields.
- Experience with numerical model output and quantitative data analysis.
- Fluency in Python, NetCDF, and/or other relevant computing programs languages.
- Eagerness to work in a transdisciplinary environment (i.e., diverse teams and stakeholders).
- Excellent communication skills, written, spoken and graphical (as evidenced in peer-reviewed publications, reports, etc).
- Written and spoken fluency in English and Spanish (highly desirable).

DESIRED QUALIFICATIONS

- Background in tropical climatology.
- Some background in numerical modeling.
- Experience integrating high-resolution climate projections to climate impact assessments.
- Experience using high performance computing (HPC) systems.
- Evidence of community-informed research and community engagement. The fellow is expected to assist in developing and fostering community relationships along with other team members.
- Experience communicating climate concepts to non-technical audiences.

INTERESTED CANDIDATES:

Email Dr. Héctor Jiménez (hectorj.jimenez@upr.edu) and Dr. Alexandra Ramos (aramos@ucar.edu) with the following documents:

1. Cover letter/personal statement (max 3-pages)
   Include contact information (e-mail, address, and phone number). Describe your qualifications, personal goals, motivations, research interests and how they relate to the required/desired qualifications for this opportunity.
2. Curriculum Vitae
3. Names and contact information for three references (including the applicant's Ph.D. advisor).

Please use the subject line "Postdoc Fellow - Interdisciplinary Climate Science ". Applications will be reviewed starting in February, 2025.