Position Title: **Postdoctoral Fellow - Atmospheric observations**
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 address scientific and observational gaps in our understanding of afternoon thunderstorms over western Puerto Rico**. The fellow will work under the supervision of the RAICES team: Dr. Hector Jimenez and Dr. Manuel Valdes-Pizzini from UPRM and in collaboration with Dr. Rosimar Rios-Berrios (NSF NCAR), Dr. Giovanni Seijo-Ellis (UPRM) and Dr. Alexandra Ramos (NSF NCAR). The fellow is expected to:

- Conduct a comprehensive analysis of the influencing factors leading to afternoon thunderstorms over western Puerto Rico, in preparation for a future possible field campaign.
- Coordinate radiosonde launches to sample the environment before, during, and after the formation of afternoon thunderstorms.
- Identify observational gaps and possible location for instrumentation deployment.
- Design observational strategies to best sample the evolution of afternoon thunderstorms over western Puerto Rico.
- Be a liaison between RAICES and the NWS Weather Forecast Office of San Juan.
- Collaborate with researchers and students at the Physics Department. 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 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, engineering, tropical meteorology, extreme weather, or related fields.
- Strong background in mesoscale meteorology, including proven record of using observations to understand the evolution of convective systems.
- Fluency in Python, NetCDF, and/or other relevant computing programs languages.
- Excellent communication skills, written, spoken and graphical (as evidenced in peer-reviewed publications, reports, etc).
- Written and spoken fluency in English and (highly desirable) in Spanish.

DESIRED QUALIFICATIONS

- Background in tropical climatology and/or boundary-layer meteorology.
- Past experience participating in field campaigns, including deployment of instruments for targeted observations.
- Past experience analyzing weather radar observations.

INTERESTED CANDIDATES:

Email Dr. Héctor Jiménez (hectorj.jimenez@upr.edu) and Dr. Rosimar Rios-Berrios (rberrios@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 - Atmospheric observations ". Applications will be reviewed starting in February, 2025.