

DELIÁN COLÓN- BURGOS

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EDUCATION

Bachelor of Science: **Meteorology and Atmospheric Science**
The Pennsylvania State University, University Park, PA
Millennium Scholars Program, Cohort 7

GPA: 3.53/4.00
August 2019- May 2023 (expected)

RESEARCH EXPERIENCE

P3H (Predictive Personalized Public Health) Internship
Undergraduate Researcher

Aug. 2020- present

- Work focuses on statistical analyses performed on the programming software R, linking Coronavirus and other diseases with weather variables, like rainfall and temperature.

Mentor:

Dr. Helen Greatrex, Penn State Department of Geography and Statistics

Research Collaboration with University of South Florida, School of Geosciences

Jul. 2020- Feb. 2021

- Assisted with mentor and mentee survey data cleaning and coding using SPSSv26 and with manuscript figures' design and development.
- Manuscript submitted to BAMS (Bulletin of the American Meteorological Society): Collins, J., A. Polen, I. Jernigan, **D. Colón-Burgos**, K. McSweeney, M. Spandri. An Analysis of the Success of Virtual Research Experience for Undergraduates, Programs in Light of the COVID-19 Pandemic. (Feb. 2021)

NSF's Weather, Climate and Society REU, hosted by University of South Florida:
REU Participant

May 2020- Jul. 2020

- Acquired skills of survey data cleaning and coding using SPSS v26, virtual collaboration within a research group, development of poster and completed a 1-credit Research class.
- Developed poster: "Hurricane evacuations in the age of COVID-19: How evacuation zones and concerns about location of residence affect perceptions of risk and evacuation decisions".
- Communicated results on REU poster symposium, where awarded "1st Place Poster Award".
- Collaborated on **publication**: Collins, J., A. Polen, K. McSweeney, **D. Colon Burgos**, I. Jernigan, 2020. Hurricane Risk Perceptions and Evacuation Decision Making in the Age of COVID-19, accepted for publication in the *Bulletin of the American Meteorological Society* (BAMS) (in production process, February 2021).

Mentors:

Dr. Jennifer Collins, University of South Florida School of Geoscience

Amy Polen, University of South Florida College of Public Health

NASA Pennsylvania Space Grant Consortium Research Internship Program:

Jan. 2020-Dec. 2020

WISER | MURE | FURP

Undergraduate Researcher

- Research project on Day-night changes in wind direction in mountainous terrain utilizing Shale Hills Critical Zone Observatory tower measurements data.
- Utilized programming software MATLAB to create figures showing results.

Supervisor:

Dr. Kenneth Davis, Penn State Department of Meteorology

Professional internship in "EcoExploratorio Puerto Rico Science Museum" (San Juan PR)

Oct. 2018- May 2019

Student Intern

- Created and developed various interactive science-based activities for 7 special events on

the museum intended for young scientists.

- Assisted staff on Friday museum's tours and special events each attended by more than 150 people.
- Volunteered 120+ hours as museum's first high school intern.

INVOLVEMENT

Serve in the Campus Weather Service	Sept. 2019- present
<ul style="list-style-type: none">• Weekly shifts performing radio weather forecasts for various radio stations across Pennsylvania and video forecasts for the Campus Weather Service YouTube page.• Create video weather forecasts for CNET and Penn State Network News (PSN News).• Summer 2020 volunteer, providing weekly forecasts to "Black Forest Broadcasting", "Juniata County Radio" and WGRC, Lewisburg PA.	
Social and Fundraising Chair of Penn State Puerto Rican Student Association	Sept. 2019- present
<ul style="list-style-type: none">• Position obtained on May 2020, active member since September 2019.• Work with the rest of the E-board to develop biweekly meetings and social activities, with the goal of creating a functional network that will facilitate Puerto Rican students' adjustment to the Penn State University community.• Fundraising for THON 2020, a student run philanthropy towards childhood cancer. Club fundraised total of approximately \$4,000 in 2019-2020 academic year.	
Member of the PSUBAMS (Penn State University branch of the American Meteorological Society)	Sept. 2019- present
<ul style="list-style-type: none">• Focus on professional development within the Meteorology field.	
Volunteer for the show "Weather World"	Aug. 2019- Dec. 2019
<ul style="list-style-type: none">• Revised the forecast made on the show with the actual data.	
Advisor in the 1 st and 2 nd Youth Advisory Council of Puerto Rico's Health Department	Nov. 2015- present
<ul style="list-style-type: none">• Contribute to improve the health of Puerto Rican population by creating community education campaigns and advising the Department of Health on public initiatives.• Presented and participated on the Annual Conference AMCHP in 2017 (MO), 2018 (VA) and 2019 (TX), where inspired other divisions to include adolescents on the Health Department processes.• Received "Special Award" from the American Academy of Pediatrics PR Chapter for recovery efforts after Hurricane Maria.	

AWARDS AND SCHOLARSHIPS

Awarded the "Comité Noviembre Scholarship"	Sept. 2020
Penn State Department of Meteorology and Atmospheric Science: "Warren M. and Mary C. Washington Scholarship"	Aug. 2020
Awarded the " <i>National Puerto Rican Day Parade Scholarship</i> "	May 2019, May 2020
Awarded the " <i>Association for Women Geosciences Minority Scholarship</i> "	Aug. 2019
Awarded the "Kinesis" Scholarship	Aug. 2019

PROFESSIONAL CONFERENCES

Attendee and poster presenter at the American Meteorological Society (AMS) 101 st Annual Meeting	Jan. 2021
<ul style="list-style-type: none">• Poster presented: "Hurricane evacuations in the age of COVID-19: How evacuation zones and concerns about location of residence affect perceptions of risk and evacuation decisions", at the 20th Annual Student Conference Poster Exhibition and the 16th Symposium on Societal Applications: Policy, Research and Practice.• Awarded Second place for the 2021 Societal Applications Symposium poster presentation.	
2020 National Weather Association Virtual Student conference	Sept. 2020
Attendee at 2019 RISE Conference : "Transforming University Engagement in Pre- and Post-Disaster Environments: Lessons from Puerto Rico", University of Albany, NY.	Nov. 2019

SKILLS

Bilingual, fluent in both English and Spanish.

Ability to speak in a public setting and to a camera, CAS 100- "Public Speaking".

Basic knowledge of meteorology programming on:

"MATLAB", learned from METEO273- "Introduction to Meteorology Programming";

"PYTHON", skill obtained from METEO 473- "Applications of Computers to Meteorology" class;

"R", language used in P3H internship research project.

Organizing activities (community services, engagement activities, items recollection)

Certified by **CITI Program** for "Human Research: Social/ Behavioral Investigators and Key Personnel"