

# Nathalie G. Rivera-Torres

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## EDUCATION

### Ph.D. in Atmospheric Science

AUGUST 2019 – PRESENT

*University at Albany – State University of New York*

*Albany, NY.*

- Expected Graduation Date: May 2024

### B.S. in Theoretical Physics

AUGUST 2015 – MAY 2019

*University of Puerto Rico at Mayagüez*

*Mayagüez, P.R.*

- Graduated Magna Cum Laude
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## PROFESSIONAL EXPERIENCE

### Mathematics and Science Tutor

AUGUST 2021-Present

*University at Albany – Department of Atmospheric and Environmental Sciences*

- Helped undergraduate students to improve their skills and understanding in Calculus, Differential Equations, Physics and Atmospheric Sciences.

### Broadcaster

AUGUST 2020-Present

*Radio Isla 1320*

*San Juan, P.R.*

- Prepared weather forecasts for Puerto Rico on a daily basis that were broadcasted live twice a day through the radio signal and social media platforms of Radio Isla 1320.

### Research Assistant

AUGUST 2019 – PRESENT

*University at Albany – State University of New York*

*Albany, NY.*

- Conduct research focused on examining the environmental factors that affect the forecasts of tropical cyclones.

### SOARS Intern

MAY 2018-AUGUST 2018, MAY 2019-AUGUST 2019

*National Center for Atmospheric Research*

*Boulder, CO.*

- Studied the impact of high-resolution terrain data in simulations of the landfall of Hurricane Maria in Puerto Rico

### Outreach Committee Leader

2018-2019

*AMS Local Chapter*

*Mayagüez, P.R.*

- Organized outreach activities including seminars about professional development, graduate school, internships and fellowships applications.

### Journal Coeditor

2017-2018

*Juracán Journal - AMS Local Chapter Journal*

*Mayagüez, P.R.*

- Wrote and edited articles that covered different topics of environmental and atmospheric sciences for the 11<sup>th</sup> volume of the journal.

### Research Assistant

OCTOBER 2017-FEBRUARY 2018

*University of Puerto Rico at Mayagüez*

*Mayagüez, P.R.*

- Investigated the changes in vegetation and terrain after the impact of Hurricane Maria in Puerto Rico, using aerial and satellite imagery.

### Research Assistant

JANUARY 2015-MAY 2015

*University of Puerto Rico at Cayey*

*Cayey, P.R.*

- Assisted in a project centered in the use of the medicinal plant *Mirabilis Jalapa* to inhibit the growth of the fungus that causes the *Tinea Pedis* infection.
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## AWARDS AND HONORS

<b>University at Albany Presidential Fellowship</b> , University at Albany	Present
<b>Carson Carr Graduate Diversity Fellowship</b> , University at Albany	Present
<b>SOARS Scholarship</b> , University Corporation for Atmospheric Research	2018,2019
<b>PCAM Scholarship</b> , University of Puerto Rico at Mayagüez	2018
<b>Asociación de Claustrales Jubilados Scholarship</b> , University of Puerto Rico	2017-2018
<b>University of Puerto Rico Honor Roll Scholarship</b> , Mayagüez, P.R	2016-2019
<b>Nicolás Rodríguez Matos Science Award and Scholarship</b> , Comerío, P. R	2015

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## PRESENTATIONS

- **Rivera-Torres, N.G**, Tang, B., Corbosiero, K., *Examining the Environmental Factors Associated with Downshear Reformation in Tropical Cyclones*. SACNAS NDiSTEM Digital Conference. SACNAS Research Day: Highlighting Our Graduate Students. October 2021. **Oral Presentation**
  - **Rivera-Torres, N.G**, Tang, B., Corbosiero, K., *Examining the Environmental Factors Associated with Downshear Reformation in Tropical Cyclones*. 34<sup>th</sup> Conference on Hurricane and Tropical Meteorology. May 2021. **Poster**
  - **Rivera-Torres, N.G.**, Judt, F. *Effect of High-Resolution Topography in Simulations of Hurricane Maria's Landfall in Puerto Rico*. AMS 100<sup>th</sup> Annual Meeting. Tropical Meteorology and Tropical Cyclones Symposium. Boston, MA. January 2020. **Poster**
  - **Rivera-Torres, N.G.**, Judt, F. *A Numerical Study on the Landfall of Hurricane Maria in Puerto Rico*. 2019 Summer Intern Research Presentations, Boulder, CO. August 2019. **Poster**
  - **Rivera-Torres, N.G.**, Judt, F. *A Numerical Study on the Landfall of Hurricane Maria in Puerto Rico*. 2019 SOARS Colloquium. National Center for Atmospheric Research, Boulder, CO. August 2019. **Oral Presentation**
  - **Rivera-Torres, N.G.**, Judt, F. *The Impact of High-Resolution Terrain in WRF Simulations of Hurricane Maria*. Physics and Meteorology Symposium. University of Puerto Rico, Mayagüez, P.R. September 2018. **Oral Presentation**
  - **Rivera-Torres, N.G.**, Judt, F. *The Impact of High-Resolution Terrain in WRF Simulations of Hurricane Maria*. 2018 Summer Intern Research Presentations, Boulder, CO. August 2018. **Poster**
  - **Rivera-Torres, N.G.**, Judt, F. *The Impact of High-Resolution Terrain in WRF Simulations of Hurricane Maria*. 2018 SOARS Colloquium, National Center for Atmospheric Research, Boulder, CO. August 2018. **Oral Presentation**
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## PROFESSIONAL DEVELOPMENT

- SOARS Scientific Communication Workshop** MAY-AUGUST 2018, MAY-AUGUST 2019
- Ten weekly workshops designed to improve scientific writing and public presentation skills, focused on writing research papers, oral presentations and posters to different types of audiences.
- SOARS Data Computing Workshop** MAY-AUGUST 2018, MAY-AUGUST 2019
- Ten weekly workshops intend to introduce computational thinking and the use of algorithms to solve problems
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## LANGUAGES

### SPANISH

- Native
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## PROGRAMMING SKILLS

### COMPUTER LANGUAGES

- Python, C++, NCL, MATLAB
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## PROFESSIONAL SOCIETY MEMBERSHIPS

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| • American Meteorological Society  | <b>August 2015- Present</b> |
| • Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) | <b>August 2018-Present</b>  |
| • American Geophysical Union (AGU)   | <b>August 2018-Present</b>  |
| • National Society of Leadership and Success   | <b>August 2015-May 2019</b> |
| • Society of Hispanic Professional Engineers   | <b>August 2015-May 2019</b> |