

# Nathalie G. Rivera-Torres

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## EDUCATION

### M.S. in Atmospheric and Environmental Sciences

*University at Albany – State University of New York*

**AUGUST 2019 – PRESENT**

*Albany, NY.*

### B.S. in Theoretical Physics

*University of Puerto Rico at Mayagüez*

**AUGUST 2015 – MAY 2019**

*Mayagüez, P.R.*

- Graduated Magna Cum Laude
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## PROFESSIONAL EXPERIENCE

### Research Assistant

*University at Albany – State University of New York*

**AUGUST 2019 – PRESENT**

*Albany, NY.*

- Conduct research focused on examining the environmental factors associated with downshear reformation in tropical cyclones.

### SOARS Intern

*National Center for Atmospheric Research*

**MAY 2018-AUGUST 2018, MAY 2019-AUGUST 2019**

*Boulder, CO.*

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

### Outreach Committee Leader

*AMS Local Chapter*

**2018-2019**

*Mayagüez, P.R.*

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

### Journal Coeditor

*Juracán Journal - AMS Local Chapter Journal*

**2017-2018**

*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

*University of Puerto Rico at Mayagüez*

**OCTOBER 2017-FEBRUARY 2018**

*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

*University of Puerto Rico at Cayey*

**JANUARY 2015-MAY 2015**

*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

**University at Albany Presidential Fellowship**, University at Albany

**Present**

**Carson Carr Graduate Diversity Fellowship**, University at Albany

**Present**

**SOARS Scholarship**, University Corporation for Atmospheric Research

**2018,2019**

**PCAM Scholarship**, University of Puerto Rico at Mayagüez

**2018**

**Asociación de Claustrales Jubilados Scholarship**, University of Puerto Rico

**2017-2018**

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## PRESENTATIONS

- **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

### 2020 AMS Washington Forum

OCTOBER 2020

- One-week platform to examine public policy issues across the weather, water and climate enterprise.

### 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

### ENGLISH

- Business Fluent

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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> |