

# Cynthia Marie Rivera Sánchez

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## Education

**University of Puerto Rico - Río Piedras Campus** **August 2019 - Present**  
*Bachelor of Science in Computational Mathematics and Statistics*  
Second major in Computer Science, minor in Human Rights  
General GPA: 3.97 | Major GPA: 3.90  
Expected Graduation Date: May 2024

## Research Experience

**NYC Discrete Math REU** **June 2022 - August 2022**

- Mentor: Dr. Matthew Junge ([jungem13@gmail.com](mailto:jungem13@gmail.com))
- Research in Clustered Ballistic Annihilation

**Undergraduate Research** **January 2021 - December 2021**

- Mentor: Dr. Ivelisse Rubio ([iverubio@gmail.com](mailto:iverubio@gmail.com))
- Research in Involutions of Finite Fields Obtained from Dickson Polynomials.

**Mathematical Science Research Institute - REU** **June 2021 - July 2021**

- Mentor: Dr. Pamela E. Harris ([peh2@williams.edu](mailto:peh2@williams.edu))
- MSRI-UP Parking Functions: Choose Your Own Adventure
- Research on Defective Parking Functions

## Teaching Experience

**Math Discrete Tutor** **August 2021 - December 2021**

- Supervisor: José R. Ortiz Ubarri ([jose.ortiz23@upr.edu](mailto:jose.ortiz23@upr.edu))
- Tutor in the Stipend Program project: Design and Development: Scholar COMPASS: Scholarships, Community, and Peer Academic Support for Success

**Tutoring Assistant at EMT Solution** **January 2020 - February 2020**

- Supervisor: María Rodríguez ([emtsolution@outlook.com](mailto:emtsolution@outlook.com))
- Review for the Math section of the College Board Exam

## Work Experience

**Webpage Developer** **January 2022 - December 2022**

- Supervisor: Ivelisse Rubio ([iverubio@gmail.com](mailto:iverubio@gmail.com))
- Updated the *Laboratorio Emmy Noether* webpage

**Office Work: Biology Department UPR-RP** **August 2019 - May 2020**

- Supervisor: Angela Pelet ([angela.pelet1@upr.edu](mailto:angela.pelet1@upr.edu))
- Assisted students during the enrollment process
- Organized and delivered important documents

## Presentations and Talks

**The Defective Parking Space** **April 2022**

- Join Mathematics Meeting 2022 (virtual talk)

**Orbits of Defective Parking Functions and the Infinity Norm** **October 2021**

- SACNAS Poster Presentation

## The Defective Parking Space

July 2021

- MSRI-UP REU Presentations (virtual talk)

## Computer Skills

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### Proficient in the programming languages:

- Python
- C++
- SageMath
- R
- LaTeX

### Experienced in WordPress and HTML

## Languages

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### Spanish

- Native language
- Advances skills on writing, reading and speaking

### English

- Advances skills on writing, reading and speaking

## Awards and Honors

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### Dean's Honor List

January 2020 - Present

### AEELA Scholarship

August 2020 - May 2024

- Scholarship for the children and grandchildren of the members of AEELA

### Hispanic Scholarship Fund Scholar Designation

August 2022 - May 2023

### Scholar COMPASS: Francis Castro Scholarship

August 2022 - May 2023

### Graduate Research Opportunities for Women (GROW) Conference

October 2022

- One of the 82 participants selected to form part of this conference

### Tapia 2022 Conference Scholarship

September 2022

### Hispanic Scholarship Fund Scholar Designation

August 2021 - May 2022

### Scholar COMPASS: Francis Castro Scholarship

August 2021 - May 2022

### Grace Hopper Celebration Scholarship

September 2021

### Scholar COMPASS: Francis Castro Scholarship

August 2020 - May 2021

### Rafael Carrión Jr. Award for Academic Excellence

August 2019

## Extracurricular Activities

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### **Computer Science Student Association (AECC)**

**August 2022 - Present**

- Member of the association
- Member of the directive: secretary (August 2022 - May 2023)

### **Student Council of the Faculty of Natural Sciences**

**August 2019 - August 2020**

- Mathematics Representative
- Formed part of the Activity Committee