

Lucy Martinez

Rutgers University, Department of Mathematics
(856) 558-8174 lucymartinez988@gmail.com website:marti310.github.io

Education

BS in Mathematics, Stockton University	May 2021
Minor in Computer Science, Stockton University	May 2021

Academic Positions

Stockton University

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|---|-------------------------|
| 1. Head Mathematics Tutor | September 2020-May 2021 |
| 2. Educational Opportunity Fund (EOF) Instructional Assistant | June 2018-August 2018 |
| <ul style="list-style-type: none">Assisted the professor and students with course material.Attended afternoon and evening tutoring modules for a six week program designated for low-income, underprivileged students. | |
| 3. Mathematics Tutor | April 2018-April 2021 |
| 4. Workshop Mathematics Tutor | January 2018-April 2021 |
| <ul style="list-style-type: none">Served as a math workshop tutor to linked sections of Quantitative Reasoning courses.Provided one-on-one assistance and reinforced material learned in class to the students.Proctored quizzes and graded them. | |

Awards and Honors

National Science Foundation (NSF) Graduate Research Fellowship	2021 - 2026
Rutgers School of Arts and Sciences (SAS) Excellence Fellowship	2022 - 2023
Rutgers School of Graduate Studies Dean's Fellowship	2021 - 2022
Princeton Prospective PhD Preview (P3) Program - Honorific Mention	2020
Stockton University Foundation Scholarship	2019 - 2021
Math Alliance Scholar	2019 - 2021
Hispanic Fund Scholarship	2019 - 2021
Dean's List	2017 - 2021

Research Experiences

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| East Tennessee State University, ETSU REU | June-August 2020 |
| <ol style="list-style-type: none">Research advised by Dr. Fernando Piñero.Title: Minimum Rank of Regular Bipartite Graphs. | |
| East Tennessee State University, ETSU REU | June-August 2020 |
| <ol style="list-style-type: none">Research advised by Dr. Anant Godbole.Title: Involution Derangement Graphs. | |
| Stockton University | March-November 2020 |
| <ol style="list-style-type: none">Research advised by Dr. Bradley Forrest.Title: Nonisomorphic Trees and their Chromatic Symmetric Function. | |
| Mathematical Sciences Research Institute, MSRI-UP | June-July 2019 |
| <ol style="list-style-type: none">Research advised by Dr. Pamela E. Harris.Title: On Kostant's weight q-multiplicity formula for $\mathfrak{sl}_4(\mathbb{C})$. AAECC (2020). | |

Research Publications

On Kostant's weight q -multiplicity formula for $\mathfrak{sl}_4(\mathbb{C})$, with Rebecca E. Garcia, Pamela E. Harris, Marissa Loving, David Melendez, Joseph Rennie, Gordon Rojas, and Daniel Tinoco. AAECC (2020).

Talks and Presentations

Research Talks

10. Moravian College, Student Mathematics Conference, February 2021
Minimum Rank of Regular Bipartite Graphs
9. Joint Math Meetings, Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, January 2021
Minimum Rank of Regular Bipartite Graphs
8. Canadian Mathematical Society Winter Meeting, Algebraic Combinatorixx (Women in AC), December 2020
Minimum Rank of Regular Bipartite Graphs
7. Stockton University, New Jersey, Math Seminar, November 2020
Chromatic Symmetric Function of Trees
6. The Ohio State University, Young Mathematicians Conference, August 2020
Involution Derangement Graphs
5. Clemson University, South Carolina, REU Conference, July 2020
Involution Derangement Graphs
4. Stockton University, New Jersey, Math Seminar, March 2020
Geometric Constructions for Lie Algebra Type A_3
3. Moravian College, Student Mathematics Conference, February 2020
Closed formulas for Kostant's Partition Function for $sl_4(\mathbb{C})$
2. Dalhousie University, Canada, Combinatorial Algebra meets Algebraic Combinatorics, January 2020
Geometric Constructions for Lie Algebra Type A_3
1. Mathematical Sciences Research Institute, MSRI, Berkeley, CA, July 2019
The q -Analog of Kostant's Weight Multiplicity Formula for $\mathfrak{sl}_4(\mathbb{C})$

Poster Presentations

2. Colorado Convention Center, Joint Math Meetings (JMM), January 2020
Weyl alternation sets for $\mathfrak{sl}_4(\mathbb{C})$
1. The Hawaii Convention Center, SACNAS Conference, November 2019
Weyl alternation sets for $\mathfrak{sl}_4(\mathbb{C})$

Grants and Other Funding

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| 2. Stockton University REU (\$1,000) | December 2019 |
| 1. Stockton Student Travel Fund (\$1,250) | October 2019 |

Writing Contributions to the Profession

6. [Ten Tips to Being Productive Online for Students - and Everyone](#). Math Values. February 25, 2021.
5. [Supporting math majors and grad students in the time of pandemic](#), with Pamela E. Harris, and Giovanni Marquez, e-Mentoring Network in the Mathematical Sciences-connecting students and mentors. AMS blogs. January 26, 2021.
4. Evidence-based Practices for Effective Mentorship, with Abbe Herzig, Notices of the AMS. Submitted.
3. [Networking Basics for Math Undergrads](#), with Joanne Beckford, Alex Christensen, Pamela E. Harris, Eduardo Torres Davila, and Fabrice O. Ulysse, e-Mentoring Network in the Mathematical Sciences-connecting students and mentors. AMS blogs. July 21, 2020.
2. [Learning During the Pandemic: What we wish our professors and mentors knew](#), with Mayleen Cortez, Melissa Gutierrez, Pamela E. Harris, Brooke Keene-Gomez, Amaury Minino, Alicia Prieto Langerica, Kelemua Tesfaye, and Stephanie, e-Mentoring Network in the Mathematical Sciences-connecting students and mentors. AMS blogs. May 04, 2020.
1. [Bank of REU/Grad Fair Questions](#), with Eduardo Torres Davila, e-Mentoring Network in the Mathematical Sciences-connecting students and mentors. AMS blogs. January 24, 2019.

Professional Development

Panels

- Current Issues: What can we do to support math majors and grad students in the time of pandemic?, AMS Panel Session on Education at JMM, January 2021
Panelist

- IMA/Math Alliance Workshop, Student Panel at University of Minnesota, July 2020
Panelist
- Educational Opportunity Fund (EOF), Stockton University, July 2020
Panelist

Service and Outreach

- *Co-President and Co-founder* of the Stockton Women in Math (SWIM), AWM Chapter, September 2020-May 2021
- *Volunteer*, Networking/Speaker Series, Summer Math and Science Honors Academy (SMASH), July 2020.
- *Volunteer*, Homework Completion Program, Atlantic City Library, NJ, March 2020.
- *Volunteer*, Networking/Speaker Series, Summer Math and Science Honors Academy (SMASH), July 2019.
- *Proctor*, High School Math Mayhem Competition, Stockton University, April 2019.
- *Service-Learning Coordinator* of the Alliance of Educational Opportunity Fund (EOF) Students of NJ, September 2019- May 2020.

Professional Activities

Latinas Achieve in STEM (LaSTEM)	February-April 2021
<ul style="list-style-type: none"> • This 7-week program was offered to 5 undergraduate Latinas interested in pursuing careers in STEM. • As one of the projects, we created a website which is showcased in the Student Transition Programs at Stockton University. 	
The Women of Color Project- Harvard University	October 2020
IMA/Math Alliance Workshop on Career Paths in the Mathematical Sciences	July 2020
Modern Math Workshop- MSRI	October 2019
Field of Dreams- Math Alliance	November 2019

Memberships

Association for Women in Mathematics (AWM)	July 2020 - July 2021
American Statistical Association (ASA)	November 2019 - November 2020
Pi Mu Epsilon (Member, 2019-2020 Secretary)	September 2019 - May 2021
Advancement of Chicanos/Hispanics and Native Americans in Science, (SACNAS)	July 2019 - present

Skills

Technology

Proficient in \LaTeX , Sage, and Maple. Familiar with virtualization and assembly code. Some experience with HTML, Java and Python.

Other

Fluent in English and Spanish, both written and verbal.