Lucy Martinez
Department of Mathematics, Rutgers University

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▶ Website: marti310.github.io

EDUCATION

Advisor: Doron Zeilberger M.S. Mathematics, Rutgers University May 2023 Awarded upon completion of written qualifying exams B.S. Mathematics, Stockton University May 2021 Minor in Computer Science FELLOWSHIPS, AWARDS, AND GRANTS FELLOWSHIPS, AWARDS, AND GRANTS Fellowships Rutgers School of Arts and Sciences Excellence Fellowship 2026 - 2027 Rutgers School of Graduate Studies Dean's Fellowship 2021 - 2022 National Science Foundation Graduate Research Fellowship (NSF-GRFP) 2021 - 2022 Awards and Grants MAA Tensor Women & Mathematics Grants (\$5,947.20) 2025 - 2026 Joel Lebowitz Fellowship, Rutgers University (\$2,500) July 2025 Travel Award, AWM Research Symposium (\$2,000) May 2025 SIAM Student Travel Award, SIAM (\$650) 2025 SGS Research & Travel Award, SIAM (\$800) 2024 - 2025 SIAM Student Travel Award, Rutgers University (\$1,000) 2024 - 2025 SIAM Student Travel Award, Rutgers University (\$1,000) 2024 - 2025 SGS Research & Travel Award, Rutgers University (\$1,000) 2023 - 2024 AKECC Best Paper Award of 2022, AKECC (64,000) 2023 - 2024 Awarded for publication	Ph.D. Mathematics, Rutgers University	Expected 2027
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PUBLICATIONS

Preprint

- 2. Enumerating vector parking functions and their outcomes based on specified lucky cars. M. Ferreri, P. E. Harris, L. Martinez and E. Swartz. arXiv:2508.13917 (2025).
- 1. A symbolic computational approach to the generalized gambler's ruin problem in one and two dimensions. L. Martinez. arXiv:2412.07667 (2024).

Accepted/In Press

- Primeness of generalized parking functions. S. Armon, J. Beckford, D. Hanson, N. Krawzik,
 O. Mandelshtam, L. Martinez, and C. Yan. To appear in The Electronic Journal of
 Combinatorics.
- 1. Parking functions with a fixed set of lucky cars. P. E. Harris and L. Martinez. To appear in the Bulletin of the Institute of Combinatorics and its Applications.

Published

- 5. Hitting k primes by dice rolls. N. Alon, Y. Malinovsky, L. Martinez, and D. Zeilberger. The Electronic Journal of Combinatorics, Vol. 32 (2025), no. 4, P4.16.
- 4. Pullback parking functions. J. Elder, P. E. Harris, L. Koene, I. Lavene, L. Martinez, and M. Oldham. American Journal of Combinatorics, Vol. 4 (2025), 1-22.
- 3. A guide to the risk-averse gambler and resolving the St. Petersburg paradox once and for all. L. Martinez and D. Zeilberger. The College of Mathematics Journal, Vol. 55 (2024), no. 3, 226-234.
- 2. Repetitions of Pak-Stanley labels in G-Shi arrangements. C. Bennett, L. Martinez, A. Mock, G. Rojas Kirby, and R. Truax. Discrete Mathematics, Vol. 347 (2024), no. 9.
- 1. On Kostant's weight q-multiplicity formula for \$\sil_4(ℂ)\$. R. E. Garcia, P. E. Harris, M. Loving, L. Martinez, D. Melendez, J. Rennie, G. Rojas Kirby, and D. Tinoco. Applicable Algebra in Engineering, Communication and Computing, Vol. 33 (2022), no. 4, 353-418.

Expository

1. How many dice rolls would it take to reach your favorite kind of number? L. Martinez and D. Zeilberger. Maple Transactions, Vol. 3 (2023), no. 3, Article 15953.

TEACHING EXPERIENCE

Institute for Pure & Applied Mathematics

Teaching Assistant, Practicum for Undergraduate MAthematicians April 2024

Three 1-hour problem sessions on introductory topics in matroid theory.

Rutgers University

Teaching Assistant

Calculus II for the Mathematical and Physical Sciences	Fall 2025
Calculus I for the Mathematical and Physical Sciences	Fall 2024
Grader, Computer Science Linear Programming Graduate Course	Fall 2023
Academic Success Mentor	Fall 2022 - Spring 2024
Stockton University	
Head Mathematics Tutor	Fall 2020 - Spring 2021
Teaching Assistant	
Quantitative Passaning	Coming 2010 Coming 2021

Quantitative Reasoning

Spring 2018 - Spring 2021

Educational Opportunity Fund

Summer 2018

Assisted students during assigned math modules for a six-week program designated for low-income students.

Math Tutor Spring 2018 - Spring 2021

MENTORING EXPERIENCE

University of Puerto Rico, Ponce

Summer 2024

Graduate research mentor for the Combinatorics and Coding Theory in the Tropics REU

Brown University, ICERM institute

Summer 2022

Graduate research mentor for the Summer@ICERM: Computational Combinatorics REU

PRESENTATIONS

Invited Talks

Parking	Functions	with a	Fixed Set	of Lucky	Care
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AWM Research Symposium, EDGE Special Session May 2025 Graduate Combinatorics Seminar, Rutgers University April 2025

A Mirror Step Variant of Gambler's Ruin

Experimental Mathematics Seminar, Rutgers University

Research Café, Rutgers University

January 2025

January 2025

Primeness of Vector Parking Functions

JMM, MRC Algebraic Combinatorics Special Session January 2025 Graduate Combinatorics Seminar, Rutgers University November 2024

How Many Dice Rolls Would It Take to Hit Your Favorite Kind of Number?

JMM, Special Session on The EDGE Program

January 2024

The Power of Computation

Mathematics and Statistics Colloquium, The College of New Jersey October 2023

The G -Shi Arrangement: Pak-Stanley Labels and Games on Paths	
AMS Fall Central Sectional, University of Texas Mathematics Seminar, Stockton University Combinatorics Seminar, Berkeley University	September 2024 September 2023 March 2023
The Chip-firing Game and More	
Graduate Pizza Seminar, Rutgers University Mathematics Seminar, Stockton University	November 2023 October 2022
Minimum Rank of Regular Bipartite Graphs	
Student Mathematics Conference, Moravian College JMM, Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs Canadian Mathematical Society Winter Meeting,	February 2021 January 2021 December 2020
Algebraic Combinatorixx Special Session	
Chromatic Symmetric Function of Trees	
Mathematics Seminar, Stockton University	November 2020
Involution Derangement Graphs	
Young Mathematicians Conference, The Ohio State University REU Conference, Clemson University	August 2020 July 2020
Closed Formulas for Kostant's Partition Function for $\mathfrak{sl}_4(\mathbb{C})$	
Student Mathematics Conference, Moravian College	February 2020
Geometric Constructions for Lie Algebra Type ${\cal A}_3$	
Mathematics Seminar, Stockton University Combinatorial Algebra meets Algebraic Combinatorics, Dalhousie University	March 2020 January 2020
The q -analog of Kostant's Weight Multiplicity Formula for $\mathfrak{sl}_4(\mathbb{C})$	
Mathematical Sciences Research Institute	July 2019
Contributed Talks	
Parking Functions with a Fixed Set of Lucky Cars	
(In Spanish) ICMAM Central America and the Caribbean Conference	ce October 2025
A Symbolic Computational Approach to the Generalized Gambler's Ruin Dimension	Problem in One
Numerical Analysis Contributed Session, SIAM Annual Meeting	July 2025
From Linear Algebra to Graph Theory: Minimum Rank of Regular Bipar	tite Graphs
Graphs Contributed Session, SIAM Linear Algebra Conference	May 2024

Posters

Parking Functions with a Fixed Set of Lucky Cars

AWM Research Symposium

May 2025

Weyl Alternation Sets for $\mathfrak{sl}_4(\mathbb{C})$

JMM January 2020 SACNAS Conference November 2019

RESEARCH AND WORKSHOP PARTICIPATION

Research Visits

Women in Noncommutative Algebra and Representation Theory Workshop 4, Banff
International Research Station
March 2025
Mathematical Research Communities, American Mathematical Society
June 2024

Summer Schools

Applied Math skills Improvement for Grad studies (AMIGAs), IPAM	July 2023
Algebraic Methods in Combinatorics, University of Illinois Urbana-Champaign	June 2023
Graph Coloring, University of Illinois Urbana-Champaign	May 2023

Workshops

Integrability and Algebraic Combinatorics, IPAM	April 2024
Modern Math Workshop, IMSI	October 2023
Foundations of Computational Mathematics, Sorbonne Université	June 2023
Modern Math Workshop, MSRI	October 2022
Open Problems in Algebraic Combinatorics, UMN Twin Cities	May 2022
The Women of Color Project, Harvard University	October 2020
IMA/Math Alliance Workshop on Career Paths, UMN Twin Cities	July 2020
Modern Math Workshop - MSRI	October 2019

Programs

Latinas Achieve in STEM (LaSTEM), Stockton University February - April 2021 This 7-week program was offered to 5 undergraduate Latinas interested in pursuing careers in STEM. One of the projects included a website that is showcased in the Student Transition Programs.

WRITING CONTRIBUTIONS TO THE PROFESSION

9. Empowering future leaders in Applied Mathematics: The AMIGAs Program. T. Azevedo, D. Beckelhymer, J. Jones, D. Galan Covarrubias, L. Martinez, and A. Singhal. SIAM News Blog, November 3, 2023.

- 8. AMIGAs' Impact: Computation, collaboration, community (C³). T. Azevedo, D. Beckelhymer, J. Jones, D. Galan Covarrubias, L. Martinez, and A. Singhal. AWM Newsletter, Vol. 53, no. 6, November/December 2023, 25-27.
- 7. Questions to ask to identify a supportive graduate program as a woman or gender minority in math. B. Gelb, K. Beck, J. Hamlin, H. Mahmoudian, N. Malawo, L. Martinez, and R. Whitman. Math Values. April 12, 2023.
- A model for a one-hour workshop on mentoring. P. E. Harris, Z. Markman, L. Martinez, A. Mock, E. J. Pabón Cancel, A. Verga, and S. Wang. MAA FOCUS, Vol. 41, no. 1, February/March 2023, 18-21.
- 5. Ten tips to being productive online for students and everyone. L. Martinez. Math Values. February 25, 2021.
- 4. Supporting math majors and grad students in the time of pandemic. P. E. Harris, G. Marquez, and L. Martinez. e-Mentoring Network in the Mathematical Sciences-connecting students and mentors. AMS blogs. January 26, 2021.
- 3. Networking basics for math undergrads. J. Beckford, A. Christensen, P. E. Harris, L. Martinez, E. Torres Davila, and F. 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. M. Cortez, M. Gutierrez, P. E. Harris, B. Keene-Gomez, L. Martinez, A. Minino, A. Prieto Langarica, K. Tesfaye, and S. e-Mentoring Network in the Mathematical Sciences-connecting students and mentors. AMS blogs. May 04, 2020.
- Bank of REU/Grad fair questions. L. Martinez and E. Torres Davila. e-Mentoring Network in the Mathematical Sciences-connecting students and mentors. AMS blogs. January 24, 2019.

Professional Development

Workshop Leader

How to Create your Professional Website	
AWM Chapter, Rutgers University	March 2025
The University of Puerto Rico at Ponce	July 2024
CV Writing Workshop	
AWM Chapter, Rutgers University	November 2024
The University of Puerto Rico at Ponce	July 2024

Panelist

Undergraduate and Graduate Students, IGEN-Math	February 2025
Online Fall Graduate School fair Kickoff Panel, AMS	October 2024
Current and Recent Graduate Student Perspectives, GROW Conference	September 2024
Stockton University Alumni Panel	September 2024
Funding and Fellowships Panel, The Women+ of Color Project	October 2022
Graduate School Panel, Summer@ICERM	June 2022
Undergraduate Research Student Panel, CURM	June 2022

Beginning Undergraduates' Mathematical research Preparation Panel, YSU	May 2022
Student Panel, IMA/Math Alliance Workshop, University of Minnesota	July 2020
Educational Opportunity Fund, Stockton University	July 2020

SERVICE AND OUTREACH

Co-organizer

Undergraduate Special Session, AWM Research Symposium	May 2025
Experimental Mathematics Seminar, Rutgers University	Fall 2024 - Present
EDGE Webinar Series, EDGE Foundation	Fall 2023 - Present

Mentoring Activities

Speaker, Our Stories Session, Fourth Annual OURFA ² M ² conference	November 2023
Title: Navigating Academia Despite the Obstacles	
Speaker, Critical Issues in Mathematics Education, MSRI	March 2023
Title: Mentoring Experiences Through the Lens of a Mentee	
Co-founder of the EDGE Webinar Series, EDGE Foundation	2023
Member of Department of Mathematics Climate Committee, Rutgers University	2023 - 2024
Facilitator, Cafe Con Leche, Research Talk hosted by Lathisms	March 2022
Co-founder and Co-president of the Stockton University AWM Chapter	2020 - 2021
Volunteer	
Homework Completion Program, Atlantic City Library, NJ	March 2020
Networking/Speaker Series, Summer Math and Science Honors Academy	July 2019/2020

Networking/Speaker Series, Summer Math and Science Honors Academy Proctor, High School Math Mayhem Competition, Stockton University Service-Learning Coordinator of the Alliance of EOF Students of NJ March 2020 July 2019/2020 April 2019 2019 - 2020

MEMBERSHIPS

Society for Industrial and Applied Mathematics	Jan. 2024 - Dec. 2025
American Mathematical Society	Oct. 2021 - Dec. 2025
Association for Women in Mathematics	July 2020 - July 2021
American Statistical Association	Nov. 2019 - Nov. 2020
Pi Mu Epsilon (Member, 2019-2020 Secretary)	Sept. 2019 - May 2021
Advancement of Chicanos/Hispanics and Native Americans in Science	July 2019 - July 2024

SKILLS

Technology

Proficient in LaTeX, Sage, Maple and CoCalc. Some experience with HTML, Java and Python.

Other

Fluent in English and Spanish, both written and verbal.