JASMINE CAMERO

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EDUCATION

Emory University   August 2020 - Present
Doctor of Philosophy, Mathematics

Advisor: Brooke Ullery

California State University, Fullerton   August 2015 - May 2020
Bachelor of Arts, Mathematics

RESEARCH EXPERIENCE

PRiME (Pomona Research in Mathematics Experience) Research Assistant Summer 2022
Pomona College

· Research Leaders: Dr. Bianca Thompson, Jasmine Camero; Undergraduate students: Malike Conteh, Michaela Fitzgerald, Sarah Szafranski
· Mentored students and worked to understand the relationship between prime divisor densities of sequences and understanding the Galois groups attached to these trees

Summer@ICERM 2019 Participant   June 2019 - August 2019
Institute for Computational and Experimental Research in Mathematics at Brown University

· Utilized theory and computation from algebra, number theory, and algebraic geometry
· Studying the proportion of periodic points for a Lattès map on the projective line over a finite field

Graduate Readiness and Access in Mathematics (GRAM) Scholar August 2018 - May 2020
California State University, Fullerton

· Studying a mathematical model that finds the minimum amount of energy needed to induce folding on a 2-dimensional structure initiating a transition to a 3-dimensional structure on a micro-level
· Analyzing small-scale situations that can be used to configuring technological and biological innovations

Research Assistant   June 2018 - August 2018
California State University, Fullerton

· Found solutions of constrained optimization problems
· Classified the shape of a two-rod configuration for a varying applied load

Research Assistant   June 2016 - August 2016
California State University, Fullerton

· Gathered knowledge of mathematics to construct a model for the Disneyland measles outbreak of 2014
· Developed an effective report to showcase findings to peers and professionals

PUBLICATIONS

Z. Bell, J. Camero, K. Cho, T. Hyde, C. Lu, R. Miller, B. Thompson, E. Zhu, *Density of Periodic Points for Lattès Maps over Finite Fields.* Journal of Number Theory, (2021).

N. Brubaker, J. Camero, O. Rocha Rocha, R.C. Soto, B.D. Suceavă, *A Curvature Invariant Inspired by Leonard Euler's Inequality $R \geq 2r$.* Forum Geometricorum, Volume 18 page 119-127 (2018).

N. Brubaker, J. Camero, O. Rocha Rocha, B.D. Suceavă, *A Ladder of Curvatures in the Geometry of Surfaces.* International Electronic Journal of Geometry, Volume 11 NO. 2 page 28-33 (2018).

WRITINGS FOR THE PROFESSION

Academia, will you not be my Valentine?, author: Jasmine Camero. MAA Math Values Graduate Student Blog. February 14, 2023.

Confessions of a Brown Woman in Math, author: Jasmine Camero. MAA Math Values Graduate Student Blog. December 13, 2022.

Welcome to "Learning through the Ranks: A Graduate Student Blog", author: Jasmine Camero. MAA Math Values Graduate Student Blog. March 8, 2022.

A Conversation with Dr Andrea Arauza Rivera, author: Jasmine Camero. AMS Graduate Student Blog. October 27, 2021.

Staying the path: Motivation through graduate school, student authors: Alberto Alonso, Jasmine Camero, Alejandra Castillo, Fabrice O. Ulysse, Victoria Uribe, Andrs R. Vindas Melndez, and organizer authors: Alexander Diaz-Lopez, Pamela E. Harris, Vanessa Rivera Quiones, Luis Sordo Vieira, Shelby Wilson, Aris Winger, Michael Young. e-Mentoring Network in the Mathematical Sciences - connecting students and mentors. AMS blogs. July 31, 2020.

Establishing Self-Care Practices While Pursuing a Math Grad Degree, student authors: Alberto Alonso, Jasmine Camero, Alejandra Castillo, Fabrice O. Ulysse, Victoria Uribe, Andrs R. Vindas Melndez, and organizer authors: Alexander Diaz-Lopez, Pamela E. Harris, Vanessa Rivera Quiones, Luis Sordo Vieira, Shelby Wilson, Aris Winger, Michael Young. MAA Math Values Blog. August 7, 2020.

Math SWAGGER: Building a Virtual Community, student authors: Alberto Alonso, Jasmine Camero, Alejandra Castillo, Fabrice O. Ulysse, Victoria Uribe, Andrs R. Vindas Melndez, and organizer authors: Alexander Diaz-Lopez, Pamela E. Harris, Vanessa Rivera Quiones, Luis Sordo Vieira, Shelby Wilson, Aris Winger, Michael Young. Submitted to AMS Notices Early Career Series.

PROFESSIONAL DEVELOPMENT

Preliminary Arizona Winter School   October 3-November 11, 2022
Heights in Diophantine Geometry

LatMath Conference Activity Organizer   July 7-9, 2022
Institute for Pure & Applied Mathematics

· LatMath Community Building Networking activity organizer

Roots of Unity Workshop   June 12-16, 2022
Commutative Algebra Group

Arizona Winter School   March 5-9, 2022
Automorphic Forms Beyond GL_2

Math SWAGGER Fellow   June 2020 - July 2020
Summer Workshop For Achieving Greater Graduate Educational Readiness

- Community for underrepresented students enrolled in a mathematical graduate program
- Discussed topics centered on the challenges faced by underrepresented students in those programs

Fullerton Math Circle   August 2017 - May 2020
California State University, Fullerton

- Conducted stimulating sessions for local high school students that initiated mathematical discussion
- Taught high level mathematics to students in an intimate setting that allowed for productive learning

PUMP Program Participant   July 2017 - August 2017
Preparing Undergraduates Through Mentoring for Ph.D's

- Prepared for upper division courses in a program at California State University, Northridge
- Connected with students from the CSU system to initiate discussion about adversity and diversity

TEACHING EXPERIENCE

Instructor of Record, *Emory University*

- Calculus I, Fall '22, Spring '23

Graduate Teaching Associate, *Emory University*

- Linear Algebra, Fall '21, Spring '22

Grader, *Emory University*

- Ordinary Differential Equations, Spring '21
- Partial Differential Equations, Fall '20

High School Mathematics Tutor, *Segerstrom High School, Spring '20*

Grader, *California State University, Fullerton*

- Calculus II, Fall '19, Spring '20
- Calculus III, Spring '18, Fall '18, Spring '19

Mathematics Department Tutoring Center, *California State University, Fullerton, Spring '16, Fall '16, Spring '17*

AWARDS AND HONORS

Center for Minorities in the Mathematical Sciences Travel Award, Fall '21

Outstanding Student Scholarly and Creative Activity Award, Spring '20

Graduate Readiness & Access in Mathematics (GRAM) Scholars Recognition Award, Spring '20

Honorable Mention for the MAA Student Poster Session at JMM 2020, Spring '20

AMS Undergraduate Travel Grant, Fall '19

Outstanding Poster for the MAA Student Poster Session at JMM 2019, Spring '19

SACNAS Travel Scholarship, Fall '18

MAA Outstanding Poster Award, Spring '18

Special Recognition for Undergraduate Research, Spring '18, Spring '19, Spring '20

William L. Putnam Participant, Fall '17, Fall '18, Fall '19

The Bonsangue Family Scholarship, Spring '19

Math and Science Teachers Initiative Scholarship, Fall '17, Fall '18, Fall '19

Santa Ana Scholarship, Spring '16, Spring '18

INVITED TALKS

Just an Unlikely Intersections Colloquiem at Emory (JUICE) Seminar   October 26, 2022
Emory University

Title: Introduction to arithmetic dynamics

PRiME (Pomona Research in Mathematics Experience) Secret Seminar   July 22, 2022
Pomona College

Title: The Riemann-Roch Theorem

Cal State Fullerton Diversity in STEM Workshop   April 2022
Virtual

Cal State Fullerton Colloquium   December 2021
Virtual

Cal State East Bay Math Colloquium   October 2021
Virtual

Emory Student Seminar in Algebra and Number Theory   October 2021
Emory University

Title: Women in Mathematics

paraDIGMS: Diversity in Graduate Mathematical Sciences   April 2021
Virtual

Title: Math SWAGGER: Building a Virtual Community

Emory Student Seminar in Algebra and Number Theory   November 2020
Emory University, Virtual

Title: Periodic Points for *Lattès maps* over Finite Fields

Pacific Math Alliance Webinar   October 2020
Virtual

Putnam Problem Solving Seminar   October 2019
California State University, Fullerton

Title: Problems in Calculus

AMS Special Session on Geometric and Analytic Inequalities   October 2018
San Fransisco State University

Title: A Ladder of Curvatures in the Geometry of Surfaces

Joint Mathematics Meetings   January 2018
San Diego, CA

Title: A Ladder of Curvatures in the Geometry of Surfaces

Geometry and Topology Seminar December 2017
California State University, Fullerton

Title: A Ladder of Curvatures in the Geometry of Surfaces

MAA So-Cal Nevada Section Fall Meeting October 2017
Chapman University

Title: A Ladder of Curvatures in the Geometry of Surfaces

POSTER PRESENTATIONS

Joint Mathematics Meetings January 2020
Denver, CO

MAA So-Cal Nevada Section Spring Meeting April 2019
California State University, Channel Islands

College of Natural Sciences and Mathematics Research Symposium March 2019
California State University, Fullerton

Joint Mathematics Meetings January 2019
Baltimore, MD

Natural Sciences and Mathematics Summer Research Symposium August 2018
California State University, Fullerton

MAA So-Cal Nevada Section Spring Meeting April 2018
University of San Diego

College of Natural Sciences and Mathematics Research Symposium March 2018
California State University, Fullerton

Joint Mathematics Meetings January 2018
San Diego, CA

College of Natural Sciences and Mathematics Research Symposium March 2017
California State University, Fullerton

SACNAS Conference October 2016
Long Beach, CA

Natural Sciences and Mathematics Summer Research Symposium August 2016
California State University, Fullerton

VOLUNTEER EXPERIENCE

Emory University Student Chapter of the AWM Fall 2022-Present
Association for Women in Mathematics

Co-founder/President of the student chapter to foster community in the department within underrepresented minorities

Graduate Student Intern for the AMS Notices Early Career April 2022-Present
American Mathematical Society

Contact writers, plan yearly article topics, and collaborate with editing team

MAA Math Values Graduate Student Blog Editor-in-Chief March 2022-Present
Mathematical Association of America

Contribute and solicit posts from other students to foster community

AMS Graduate Student Blog Editor-in-Chief September 2021-December 2021
American Mathematical Society

Manage and solicit posts from other contributors, and encourage mathematicians to join the community

Annual Sonia Kovalevsky Mathematics Day Organizer February 2018, March 2019
Pomona College, California State University, Fullerton

· Encouraged middle and high school students to think critically and appreciate mathematics

REFERENCES

Brooke Ullery, bullery@emory.edu

Roberto Soto, rcsoto@fullerton.edu

Bogdan Suceava, bsuceava@fullerton.edu

Nicholas Brubaker, nbrubaker@fullerton.edu