Alexander J. Barrios

CONTACT Information	Carleton College, Department of Mather	natics and Statistics E-mail: abarrios@carleton.edu		
INFORMATION	One North College Street Northfield, MN 55057	Webpage: apps.carleton.edu/profiles/abarrios		
EDUCATION	Purdue University, West Lafayette, IN USA Ph.D. Mathematics, May 2018 M.S. Mathematics, May 2016 Advisor: Edray Goins Ph.D. Thesis: Minimal Models of Ration	Brown University, Providence, RI USA Sc.B. Mathematics, May 2011 Miami Dade College, Miami, FL USA A.A. Mathematics, May 2009 nal Elliptic Curves with non-Trivial Torsion		
RESEARCH INTERESTS		, and Diophantine Geometry. Recent work involves local data of rational elliptic curves with non-trivial conjecture.		
Education Experience	Carleton College, Department of Mather Visiting Assistant Professor of Mathematics	natics and Statistics Sept. 2019 - Present		
	Pomona Research in Mathematics Exper Co-Director and Project Leader	rience, Pomona College May. 2019 - Present		
	Mathematical Sciences Research Institut Research Mentor	e - Undergraduate Program Jun. 2020 - Jul. 2020		
	Carleton College, Department of Mather Scholar-in-Residence Fellow in Mathematics	natics and Statistics Sept. 2018 - Aug. 2019		
	Purdue University, Department of Mathe Graduate Teaching Assistant Graduate Student Representative	ematics Aug. 2013 - May 2018 May 2014 - Apr. 2015		
	Purdue University, Minority Engineering Lead Instructor Instructor Tutor	May 2015 - Aug. 2018 May 2014 - Aug. 2018 Aug. 2014 - Dec. 2016		
PREPRINTS AND PUBLICATIONS	1. (w. Alyson Deines, Maila Hallare, Piper H, Manami Roy) Isogenous discriminant twins of prime degree over totally real number fields, in preparation.			
	2. Reduced minimal models of rational elliptic curves, in preparation.			
	3. Explicit classification of rational isogeny graphs, in preparation.			
	4. (w. Manami Roy) Representations attached to elliptic curves with a non-trivial odd torsion point, submitted, preprint available at https://arxiv.org/abs/2106.15722			
	5. Lower bounds for the modified szpir https://arxiv.org/abs/2104.10817	o ratio, submitted, preprint available at		

- 6. Good elliptic curves with a specified torsion subgroup, submitted, preprint available at https://arxiv.org/abs/2012.12475
- 7. (w. Manami Roy) Local data of rational elliptic curves with non-trivial torsion, revised and resubmitted, preprint available at https://arxiv.org/abs/2104.10337
- 8. Minimal models of rational elliptic curves with non-trivial torsion, to appear in Res. Number Theory, preprint available at https://arxiv.org/abs/2001.01016
- 9. A constructive proof of Masser's Theorem, Contemp. Math., Vol 759, pp. 51-61, 2020. Preprint available at https://arxiv.org/abs/1908.04938
- 10. Minimal models of rational elliptic curves with non-tivial torsion, ProQuest LLC, Ann Arbor, MI, 2018, Ph.D. Thesis, Purdue University. MR 3828473

CURRENT RESEARCH

- 1. (w. Alyson Deines, Maila Hallare, Manami Roy) Isogenous discriminant twins over number fields, research in progress.
- 2. (w. Manami Roy, Antonela Trbović) Tamagawa numbers of rational elliptic curves
- 3. (w. Darwin Chimarro, Manami Roy, Nandita Sahajpal, Bella Tobin, Hanneke Wiersema) *Local data of elliptic curves with prescribed isogeny graph*, research in progress.
- 4. Database of good elliptic curves, research in progress.
- 5. (w. Manami Roy) Explicit classification of rational isogeny-torsion graphs
- 6. (w. Waymar Astaiza, Henry Chimal-Dzul, Stephan Garcia, Jaaziel Lopez de La Luz, Victor Moll, Yunied Puig, Diego Villamizar) Symmetric tensor powers of graphs, research in progress.
- 7. (w. Alyssa Brasse, Alvaro Cornejo, Owen Ekblad, Nevin Etter, Gustavo Flores, Marietta Geist, Kayla Harrison, Abigail Loe, Andrew Miller, Manami Roy, Summer Soller) *Minimal discriminants of rational elliptic curves with prescribed isogeny graphs*, research in progress.

EXPOSITORY PUBLICATIONS

1. (w. Ranthony A.C. Edmonds, Roberto Soto) *Math Alliance: Investing in Tomorrow Today*, to appear as book chapter in Count Me In: Community and Belonging in Mathematics by Della Dumbaugh and Deanna Haunsperger, MAA Press

Grants

1. National Science Foundation DMS-2113782 (\$548,786 - Co-PI)

TEACHING EXPERIENCE

Carleton College, Northfield, MN

MATH 321 - Real Analysis I	Instructor, 1 section	Spring 2022
MATH 210 - Calculus 3	Instructor, 1 section	Spring 2022
MATH 210 - Calculus 3	Instructor, 2 sections	Winter 2022
MATH 236 - Mathematical Structures	Instructor, 1 section	Fall 2021
MATH 236 - Mathematical Structures	Instructor, 2 sections	Spring 2021
MATH 312 - Elementary Theory of Numbers	Instructor, 1 section	Winter 2021
MATH 210 - Calculus 3	Instructor, 1 section	Winter 2021
MATH 210 - Calculus 3	Instructor, 1 section	Fall 2020
MATH 312 - Elementary Theory of Numbers	Instructor, 1 section	Spring 2020
MATH 232 - Linear Algebra	Instructor, 1 section	Winter 2020
MATH 210 - Calculus 3	Instructor, 1 section	Winter 2020
MATH 236 - Mathematical Structures	Instructor, 1 section	Fall 2019
MATH 120 - Calculus 2	Instructor, 1 section	Fall 2019
MATH 232 -Linear Algebra	Instructor, 1 section	Spring 2019
MATH 210 - Calculus 3	Instructor, 1 section	Winter 2019
MATH 120 - Calculus 2	Instructor, 1 section	Fall 2018

Purdue University, West Lafayette, IN

MEP MITE SAT Mathematics	Instructor, 1 section	Summer 2018
MEP ABC Calculus I	Instructor, 1 section	Summer 2018
MA303 Differential Equations & PDEs	Grader, 1 section	Summer 2018
MA16010I - Active Learning Calculus I	Teaching Assistant, 2 sections	Spring 2018
MA584 Algebraic Number Theory	Grader, 1 section	Fall 2017
MA585 Mathematical Logic	Grader, 1 section	Fall 2017
MEP MITE SAT Mathematics	Instructor, 1 section	Summer 2017
MEP ABC Calculus I	Co-Instructor, 1 section	Summer 2017
MA162 - Calculus II	Co-Instructor, 1 section	Summer 2017
MA16020I - Active Learning Calculus II	Teaching Assistant, 2 sections	Spring 2017
MEP MITE SAT Mathematics	Instructor, 1 section	Summer 2016
MA261 - Calculus III	Recitation Instructor, 3 sections	Fall 2015
MEP MITE SAT Mathematics	Instructor, 1 section	Summer 2015

MA153 - College Algebra Instructor, 1 section Spring 2015 MA153 - College Algebra Fall 2014 Instructor, 2 sections MEP MITE SAT Mathematics Instructor, 1 section Summer 2014 MA162 - Calculus II Recitation Instructor, 1 section Spring 2014 MA173 - Honors Calculus I and II Recitation Instructor, 1 section Fall 2013 Jun. 2021 - Aug. 2021 Undergraduate 1. Pomona Research in Mathematics Experience Students: Alyssa Brasse (Hunter College), Nevin Etter (Washington and Lee University), Projects Advised Gustavo Flores (Carleton College), Andrew Miller (University of California, Santa Barbara), and Summer Soller (University of Utah) Topic: Minimal Discriminants of Rational Elliptics with Prescribed Isogeny Graphs Jun. 2020 - Jul. 2020 2. MSRI-UP 2020 Research Project (co-advised with Edray Goins) Students: Samuel Heard (University of Oklahoma), Fabian Ramirez (Sonoma State University), Vanessa Sun (Hunter College) Topic: Automorphism and Monodromy Groups of Classical Modular Curves Jun. 2020 - Jul. 2020 3. MSRI-UP 2020 Research Project (co-advised with Edray Goins) Students: Ra-Zakee Muhammad (Pomona College), Javier Santiago (University of Puerto Rico, Río Piedras), Eyob Tsegaye (Stanford University) Topic: Explicit Constructions of Finite Groups as Monodromy Groups Jun. 2020 - Jul. 2020 4. MSRI-UP 2020 Research Project (co-advised with Edray Goins and Sofía Martinez) Students: Nicholas Arosemena (Morehouse College), Yaren Euceda (University of Minnesota, Twin Cities), Ashly Powell (University of the Virgin Islands)

Topic: Dessin d'Enfants from Cartographic Groups

5. Carleton College Towsley Fund for Winter Research

Dec. 2019

Student: Abigail Loe

Topic: Database of Modified Szpiro Ratios of Rational Elliptic Curves with non-Trivial Isogeny

6. Pomona Research in Mathematics Experience

Jun. 2019 - Aug. 2019

Students: Alvaro Cornejo (University of California, Santa Barbara), Owen Ekblad (University of Michigan, Dearborn), Marietta Geist (Carleton College), Kayla Harrison (Eckerd College), and Abigail Loe (Carleton College)

Topic: Minimal Discriminants of Rational Elliptic Curves with a non-trivial Rational Isogeny

- Recipients of the MAA MathFest 2019 Number Theory Undergraduate Research Presentation
- AMS Blog Post: The The MathFest Experience by A. Cornejo and K. Harrison

SENIOR THESIS Advised

Research

Undergraduate 1. Carleton Senior Integrative Exercise

Jan. 2022 - May 2022

Students: David Chae, John Groos, Chi Nguyen, Xander Roti, Sabrine Shanaa

Topic: Modular Forms

2. Carleton Senior Integrative Exercise

Sept. 2020 - Mar. 2021

Students: Jack Heinzel, Daniel Kleber, Matt Mendiola

Topic: Class Groups of Elliptic Dedekind Domains

3. Carleton Senior Integrative Exercise

Sept. 2019 - Mar. 2020

Students: Sam Chen, Marietta Geist, Alex Kiral, Brody Lynch

$Topic: \ {\it Kummer's Proof of Fermat's Last Theorem for Regular Primes}$

Fellowship,	1. Invited	Lecture Series for the Arizona Winter School	Jan. 2021 - Mar. 2021
Honors, and	2. Lathism	as Honoree	Sept. 2020
Awards		Project NExT Fellow	Jun. 2018 - Aug. 2019
	4. CFD Fe	ellow	Sept. 2018 - Aug. 2019
	5. NSF Me	ath Institute's Award for Best Presentation	Jan. 18, 2019
Professional	1. Member	r, The Honors College at Miami Dade Alumni Advisory Commit	Jan. 2021 -
ACTIVITIES AND	2. Panel P	Participant, Lunch in the Time of Covid	Mar. 17, 2021
SERVICE	Topic	c: Investing in the Future of Mathematics	
	3. Panel P	$Participant$, OURFA 2 M 2	Dec. 19, 2020
	Topic	c: Our Stories	
	4. Panel P	Participant, Field of Dreams Conference	Nov. 6, 2020
	Topic	c: The Value of Undergraduate Research Experiences	
	5. Co-orga	mizer, MAA MathFest Workshop* Canceled due to COVID	Jul. 30, 2020
	Topic	c: Navigating Academia as an Underrepresented Early Career M	Iathematician
	6. Discuss	ion Facilitator, JMM Session	Jan. 16, 2020
	Topic	c: Identifying and Managing Microaggressions	
	7. Panel P	Participant, USTARS Conference	Apr. 27, 2019
	Topic	c: Mentoring Panel	
	8. Panel P	Participant, TRIO at Carleton	Apr. 5, 2019
	Topic	c: First Generation Faculty Panel	
	9. Present	er, Prairie Creek Community School's STEM Day	Feb. 21, 2019
	Topic	c: Hilbert's Hotel and Combinations	
	10. Session	Co-organizer, JMM Session	Jan. 16, 2019
	Topic	c: Standards-based Grading: Tools and Tips for Successful Impl	lementation
	11. Member	r, NAM Editorial Board	May 2018 - Apr. 2019
	12. Tutor, A	AGEP, LSAMP, and Purdue Science Bound	Jan. 2016 - May 2018
	13. Mentor,	, Association for Women in Mathematics (AWM) - Purdue Chap	oter Jul. 2015 - May 2018
		op Co-organizer, Purdue Office of Graduate Diversity Initiatives c: How to Prepare for Prelims	Oct. 24, 2017
		op Co-organizer, SROP c: GRE Mathematics Workshop	Jul. 8 and 15, 2017
		Participant, LSAMP and SROP c: Life in Graduate School	Jun. 6, 2017
	17. Mentor,	, Purdue Graduate School eMentoring Program	Sept. 2016 - Apr. 2017
	18. Mentor,	, Purdue University Minority Engineering Program	Aug. 2015 - Dec. 2016
	19. Recruite	er, California Forum for Diversity in Graduate Education	Nov. 5, 2016
		Participant, Purdue Science Bound c: What is Mathematics?	Oct. 4, 2016
	21. Worksh	op Co-organizer, The Summer Research Opportunities Program c: GRE Mathematics Workshop	
			Jul. 9 and 16, 2016
	22. Panei P	Participant, LSAMP	Jul. 12, 2016

	Topic: Graduate School	
23.	Recruiter, California Forum for Diversity in Graduate Education	Apr. 23, 2016
24.	Undergraduate Research Mentor, LSAMP	Sept. 2015 - Dec. 2015
25.	Graduate Student Representative, Purdue Department of Mathematics	May. 2014 - Apr. 2015
26.	Volunteer, Bridge to Enter Advance Mathematics	Jul. 15-19, 2014
27.	Panel Participant, USTARS Conference Topic: Mentoring Panel	Apr. 21, 2013
1.	(Invited talk) TBD Mathematics Colloquium Cal State East Bay, Hayward, CA	March 18, 2022
2.	(Invited talk) TBD Latinx in the Mathematical Sciences Conference Institute for Pure and Applied Mathematics, Los Angeles, USA	March 3, 2022
3.	(Invited talk) Rational Elliptic Curves with non-Trivial Isogeny AMS Special Session on A Showcase of Number Theory at Undergraduate Joint Mathematics Meetings, Seattle, WA	e Institutions January 5, 2022
4.	(Invited talk) Isogenous Discriminant Twins over Totally Real Number AMS Special Session on Rethinking Number Theory Joint Mathematics Meetings, Seattle, WA	Fields January 5, 2022
5.	(Invited talk) The abc Conjecture and Elliptic Curves Lathisms Lecture Series Speaker Virtual talk	December 10, 2021
6.	(Invited talk) TBD Mathematics Colloquium Trinity College, Hartford, CT	October 27, 2021
7.	(Invited talk) Local data of elliptic curves with prescribed isogeny graph St. Olaf College Research Seminar St. Olaf College, Northfield, MN	October 8, 2021
8.	(Invited talk) Local data of elliptic curves with prescribed isogeny graph Algebraic Geometry and Number Theory Seminar Rice University, Houston, TX	September 29, 2021
9.	(Invited talk) La data local de curvas elípticas y aplicaciones Seminario de Teoría de Números de la Universidad Autónoma de Madrid y el Instituto de Ciencias Mathemáticas, Madrid, España (charla virtual)	y June 22, 2021
10.	(Invited talk) Local data of elliptic curves and applications Number Theory and Algebra Seminar University of Zagreb, Zagreb, Croatia (virtual talk)	May 31, 2021
11.	(Invited talk) An Introduction to Analytic Continuation Mathematics Club University of Oklahoma, Norman, OK (virtual talk)	Apr. 29, 2021
12.	(Invited talk) As Easy as ABC: A Marginal Proof of Fermat's Last The Mathematics Colloquium Valparaiso University, Valparaiso, IN (virtual talk)	
13.	(Invited Lecture Series) An Introduction to Modular Forms Arizona Winter School Virtual	JanMar., 2021
14.	(Invited talk) As Easy as ABC: A Marginal Proof of Fermat's Last The Mathematics & Computer Science Colloquium Macalester College, St. Paul, MN	

TALKS GIVEN

15.	Explicit Classification of Isogeny Classes of Rational Elliptic Curves. AMS Contributed Paper Session on Number Theory Joint Mathematics Meetings, Denver, CO	Jan.	18, 2020
16.	(Invited talk) Lower Bounds on the Modified Szpiro Ratio Number Theory Seminar Simon Fraser University, Burnaby, Canada	Nov.	21, 2019
17.	Lower Bounds on the Modified Szpiro Ratio Modular Forms, Arithmetic, and Women in Mathematics Emory University, Atlanta, GA	Nov	. 2, 2019
18.	(Invited talk) History of Algebra: From Germain to Noether Abstract Algebra Lecture Washington and Lee University, Lexington, VA	Oct.	25, 2019
19.	(Invited talk) A Friendly Introduction to the ABC and Szpiro Conjectures Mathematics Colloquium Washington and Lee University, Lexington, VA	Oct.	24, 2019
20.	(Invited talk) As Easy as ABC: A Marginal Proof of Fermat's Last Theorem Mathematics Colloquium University of St. Thomas, St. Paul, MN		10, 2019
21.	A Historical Approach to Infinite Series MAA Session on Understanding Mathematics Through its History MAA MathFest, Cincinnati, OH		. 2, 2019
22.	(Invited talk) An Invitation to Modern Mathematics BEAM Colloquium Harvey Mudd College, Claremont, CA	Jun.	29, 2019
23.	Historical Introduction to Sheaves MAA North Central Spring Sectional Meeting Augsburg University, Minneapolis, MN		. 5, 2019
24.	(Invited talk) Minimal Discriminants of Rational Elliptic Curves with non-Trivia	_	
		Mar.	22, 2019
25.	Lower Bounds on the Modified Szpiro Ratio AMS Contributed Paper Session on Number Theory Joint Mathematics Meetings, Baltimore, MD	Jan.	18, 2019
26.	(Invited talk) Minimal Models of Rational Elliptic Curves with non-Trivial Torsi NAM Haynes-Granville-Browne Session of Presentations by Recent Doctoral Recip Joint Mathematics Meetings, Baltimore, MD	ients	18, 2019
27.	(Invited talk) Good Elliptic Curves with Specified Torsion Subgroup AMS Special Session: Presentations by Math Alliance Scholars Joint Mathematics Meetings, Baltimore, MD		18, 2019
28.	Humanizing Calculus MAA Session on Humanistic Mathematics Joint Mathematics Meetings, Baltimore, MD		17, 2019
29.	$1+2+3+\cdots=-\frac{1}{12}$? An Introduction to Analytic Continuation MAA North Central Fall Sectional Meeting Southwest Minnesota State University, Marshall, MN		12, 2018
30.	Minimal Models of Rational Elliptic Curves with non-Trivial Torsion Ph.D. Defense		
31.	Purdue University, West Lafayette, IN Minimal Models of Rational Elliptic Curves with non-Trivial Torsion Arithmetic of Algebraic Curves	лрг.	11, 2018

	University of Wisconsin, Madison, WI	Apr. 8, 2018
32.	(Invited talk) Semistable Conditions on Elliptic Curves Front Range Algebra, Geometry and Number Theory Seminar Colorado State University, Fort Collins, CO	Mar. 29, 2018
33.	(Invited talk) A Friendly Introduction to the ABC and Szpiro Conjectures Mathematics and Statistics Colloquium Carleton College, Northfield, MN	Jan. 25, 2018
34.	Semistable Conditions on Elliptic Curves Automorphic Forms and Representation Theory Seminar Purdue University, West Lafayette, IN	Jan. 18, 2018
35.	Exceptional Elliptic Curves with Specified Torsion Subgroup Graduate Research Day Purdue University, West Lafayette, IN	Nov. 11, 2017
36.	(Invited talk) A Friendly Introduction to the Szpiro Conjecture Mathematics and Computer Science Colloquium Wabash College, Crawfordsville, IN	Oct. 17, 2017
37.	Exceptional Elliptic Curves with Specified Torsion Subgroup MAA Indiana Sectional Meeting Manchester University, North Manchester, IN	Oct. 7, 2017
38.	Étale Cohomology and Galois Cohomology Informal Algebraic Geometry Seminar Purdue University, West Lafayette, IN	Nov. 9, 2016
39.	Historical Motivation for Étale Morphisms Informal Algebraic Geometry Seminar Purdue University, West Lafayette, IN	Oct. 26, 2016
40.	Mackey Theory Number Theory Seminar Purdue University, West Lafayette, IN	Oct. 6, 2016
41.	Analytic Continuation and Schemes Student Colloquium Purdue University, West Lafayette, IN	Oct. 5, 2016
42.	The Different Flavors of the Modularity Theorem Number Theory Seminar Purdue University, West Lafayette, IN	Jul. 19, 2016
43.	Algebraic Geometry for Number Theorist Secret Seminar Purdue University, West Lafayette, IN	Apr. 14, 2016
44.	An Overview of Modern Mathematics through the Topics of the SAT Purdue Science Bound Purdue University, West Lafayette, IN	Mar. 29, 2016
45.	Dirichlet's Theorem on Primes in Arithmetic Progression Student Colloquium Purdue University, West Lafayette, IN	Jan. 27, 2016
46.	A Riemann-Roch Theorem for Number Fields and Sheaves Riemann-Roch Seminar Purdue University, West Lafayette, IN	Jul. 31, 2015
47.	Hilbert and Ring Class Fields Number Theory Seminar Purdue University, West Lafayette, IN	Oct. 2, 2014
48	Artin-Schreier Theory and Kummer Theory	, - 1

	Number Theory Seminar Purdue University, West Lafayette, IN	Sep. 12, 2013
49.	On Some Consequences of the ABC Conjecture in Arithmetic and Logic Number Theory Seminar Purdue University, West Lafayette, IN	Mar. 1, 2013
50.	Prime Representing Function Student Colloquium Purdue University, West Lafayette, IN	Feb. 20, 2013
51.	Elasticity of Factorization in Number Fields Part II Number Theory Seminar Purdue University, West Lafayette, IN	Oct. 19, 2012
52.	Elasticity of Factorization in Number Fields Part I Number Theory Seminar Purdue University, West Lafayette, IN	Oct. 5, 2012
53.	Mill's Prime Representing Function Number Theory Seminar Purdue University, West Lafayette, IN	Apr. 6, 2012
54.	Exceptional ABC Triples for Frey Curves with Torsion Subgroups $Z_2 \times Z_4$ a Elliptic Curves and Applications Mathematical Sciences Research Institute, Berkeley, CA	· ,
55.	Minimal Surfaces in Four Dimension Summer Math Institute Final Presentation Cornell University, Ithaca, NY	July 31, 2009
56.	The Slope of Miami Lecture Series of Mathematics and Its Applications Miami Dade College, Miami, FL	April 1, 2009
57.	Energy Minimizing Graphs in the Plane Alliance Symposium Iowa State University, Ames, IA	Jul. 28, 2008
1.	Madison Moduli Weekend Virtual	Sept. 26-27, 2020
2.	Joint Mathematics Meetings 2020 Denver, CO	Jan. 15-18, 2020
3.	Latinx Mathematicians Network American Institute of Mathematics, San Jose, CA	Dec. 5-6, 2019
4.	Field of Dreams Conference St. Louis, MO	Nov. 15-17, 2019
5.	Modular Forms, Arithmetic, and Women in Mathematics Emory University, Atlanta, GA	Nov. 1-3, 2019
6.	MAA Fall North Central Section Concordia College, Moorhead, MN	Oct. 18-19, 2019
7.	MAA Mathfest 2019 Cincinnati, OH	ıl. 29 - Aug. 4, 2019
8.	Underrepresented Students in Topology and Algebra Research Symposium Iowa State University, Ames, IA	Apr. 26-28, 2019
9.	MAA Spring North Central Section Augsburg University, Minneapolis, MN	Apr. 5-6, 2019
10.	AMS Spring Central and Western Joint Sectional Meeting #1147 University of Hawaii, Honolulu, HI	Mar. 22-24, 2019

Conferences Attended

11.	Joint Mathematics Meetings 2019 Baltimore, MD		Jan. 16-19, 2019
12.	Sixth Abel Conference: A Mathematical Celebration of Robert P. Langland University of Minnesota, Minneapolis, MN	ds	Nov. 14-16, 2018
13.	Blackwell-Tapia Conference ICERM - Brown University, Providence, RI		Nov. 9-10, 2018
14.	MAA Fall North Central Section Southwest Minnesota State University Marshall, MN		Oct. 12-13, 2018
15.	MAA Mathfest 2018 Denver, CO		Aug. 1-4, 2018
16.	Mathematics is a Long Conversation: A Celebration of Barry Mazur Harvard University, Cambridge, MA		Jun. 4-8, 2018
17.	Arithmetic of Algebraic Curves University of Wisconsin-Madison, Madison, WI		Apr. 6-8, 2018
18.	Latinx in the Mathematical Sciences Conference 2018 UCLA, Los Angeles, CA		Mar. 8-10, 2018
19.	Critical Issues in Mathematics Education 2018 MSRI, Berkeley, CA		Feb. 21-23, 2018
20.	Joint Mathematics Meetings 2018 San Diego, CA		Jan. 10-13, 2018
21.	Field of Dreams Conference St. Louis, MO		Nov. 3-5, 2017
22.	MAA Indiana Sectional Meeting Manchester University, North Manchester, IN		Oct. 7, 2017
23.	MAA Mathfest 2017 Chicago, IL		Jul. 26-29, 2017
24.	Blackwell-Tapia Conference NIMBioS, Knoxville, TN		Oct. 28-29, 2016
25.	Kummer Classes and Anabelian Geometry University of Vermont, Burlington, VT		Sept. 10-11, 2016
26.	GANITA Conference in honor of V. Kumar Murty's 60th Birthday The Fields Institute, Toronto, Canada		Jun. 13-16, 2016
27.	$Careers\ in\ Mathematical\ Sciences:\ A\ Workshop\ for\ Underrepresented\ Grown Institute\ for\ Mathematics\ and\ its\ Applications,\ Minneapolis,\ MN$	oups	Mar. 26-28, 2015
28.	Underrepresented Students in Topology and Algebra Research Symposium UC Berkeley, Berkeley, CA		Apr. 11-13, 2014
29.	Underrepresented Students in Topology and Algebra Research Symposium Purdue University, West Lafayette, IN		Apr. 19-21 2013
30.	Blackwell-Tapia Conference ICERM - Brown University, Providence, RI		Nov. 9-10, 2012
31.	SACNAS National Conference Seattle, WA		Oct. 11-14, 2012
32.	Joint Mathematics Meeting New Orleans, LA		Jan. 6-9, 2011
33.	SACNAS National Conference Anaheim, CA	Sep.	30 - Oct. 3, 2010
34.	Approaches to Group Theory, in honor of Ken Brown's 65th birthday		

Cornell University, Ithaca, NY Oct. 9-11, 2010

 $35.\ Joint\ Mathematics\ Meeting$

San Francisco, CA Jan. 13-16 2010

 ${\bf 36.}\ SACNAS\ National\ Conference$

Dallas, TX Oct. 15-18, 2009

CITIZENSHIP AND Born on October 29, 1988 in Miami, Florida, United States

Languages Native Proficiency in English and Spanish

Reading Proficiency in French

Software Proficiency in LATEX, Mathematica, Python, SageMath

Affiliations American Mathematical Society (AMS)

Association for Women in Mathematics (AWM)

Math Alliance

Mathematical Association of America (MAA) National Association of Mathematicians (NAM)

Society for the Advancement of Chicanos and Native Americans in the Sciences (SACNAS)