## Alexander J. Barrios

Contact Information	Carleton College, Department of Mathe One North College Street Northfield, MN 55057	ematics and Statistics <i>E-mail:</i> abarrios@carleton.edu <i>Webpage:</i> apps.carleton.edu/profiles/abarrios
Education	<ul> <li>Purdue University, West Lafayette, IN US Ph.D. Mathematics, May 2018</li> <li>M.S. Mathematics, May 2016</li> <li>Advisor: Edray Goins</li> <li>Ph.D. Thesis: Minimal Models of Ratio</li> </ul>	A Brown University, Providence, RI USA Sc.B. Mathematics, May 2011 Miami Dade College, Miami, FL USA A.A. Mathematics, May 2009 onal Elliptic Curves with non-Trivial Torsion
Research Interests	Algebraic Number Theory, Class Field Theory the classification of minimal discriminants and torsion and its applications to the explicit ab	cy, and Diophantine Geometry. Recent work involves d local data of rational elliptic curves with non-trivial c conjecture.
Education Experience	Carleton College, Department of Mathe Visiting Assistant Professor of Mathematics	ematics and Statistics Sept. 2019 - Present
	<b>Pomona Research in Mathematics Exp</b> <i>Co-Director and Project Leader</i>	erience, Pomona College May. 2019 - Present
	Mathematical Sciences Research Institu Research Mentor	ite - Undergraduate Program Jun. 2020 - Jul. 2020
	Carleton College, Department of Mathe Scholar-in-Residence Fellow in Mathematics	ematics and Statistics Sept. 2018 - Aug. 2019
	<b>Purdue University, Department of Mat</b> Graduate Teaching Assistant Graduate Student Representative	hematics Aug. 2013 - May 2018 May 2014 - Apr. 2015
	<b>Purdue University, Minority Engineerin</b> Lead Instructor Instructor Tutor	ng Program (MEP) May 2015 - Aug. 2018 May 2014 - Aug. 2018 Aug. 2014 - Dec. 2016
Preprints and Publications	1. (w. Alyson Deines, Maila Hallare, Piper prime degree over totally real number fields	H, Manami Roy) Isogenous discriminant twins of , in preparation.
	2. Reduced minimal models of rational elliptic	<i>curves</i> , in preparation.
	3. Explicit classification of rational isogeny gr	<i>paphs</i> , in preparation.
	4. (w. Manami Roy) Representations attach point, submitted, preprint available at http	ed to elliptic curves with a non-trivial odd torsion s://arxiv.org/abs/2106.15722
	5. Lower bounds for the modified szp https://arxiv.org/abs/2104.10817	<i>iro ratio</i> , submitted, preprint available at
	6. (w. Manami Roy) Local data of rational preprint available at https://arxiv.org/abs	elliptic curves with non-trivial torsion, submitted, /2104.10337
	7. Good elliptic curves with a specified to https://arxiv.org/abs/2012.12475	rsion subgroup, submitted, preprint available at
	8. Minimal models of rational elliptic curves u at https://arxiv.org/abs/2001.01016	<i>ith non-trivial torsion</i> , submitted, preprint available
	9. A constructive proof of Masser's Theorem, available at https://arxiv.org/abs/1908.049	Contemp. Math., Vol 759, pp. 51-61, 2020. Preprint 038
	<ol> <li>Minimal models of rational elliptic curves MI, 2018, Ph.D. Thesis, Purdue University</li> </ol>	with non-tivial torsion, ProQuest LLC, Ann Arbor, . 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) Tamag	awa numbers of rational elliptic curve	es	
	3. (w. Darwin Chimarro, Manami Roy, Nandita data of elliptic curves with prescribed isogen	a Sahajpal, Bella Tobin, Hanneke Wie y graph, research in progress.	ersema) <i>Local</i>	
	4. Database of good elliptic curves, research in	progress.		
	5. (w. Waymar Astaiza, Henry Chimal-Dzul, Moll, Yunied Puig, Diego Villamizar) Symm	Stephan Garcia, Jaaziel Lopez de La etric tensor powers of graphs, research	Luz, Victor n in progress.	
	<ol> <li>(w. Alyssa Brasse, Alvaro Cornejo, Owen Geist, Kayla Harrison, Abigail Loe, Andrey discriminants of rational elliptic curves with</li> </ol>	Ekblad, Nevin Etter, Gustavo Flor w Miller, Manami Roy, Summer Sol prescribed isogeny graphs, research in	res, Marietta ler) <i>Minimal</i> n progress.	
Expository Publications	1. (w. Ranthony A.C. Edmonds, Roberto Soto) appear as book chapter in Count Me In: Co Dumbaugh and Deanna Haunsperger, MAA	) Math Alliance: Investing in Tomorr mmunity and Belonging in Mathema Press	row Today, to tics by Della	
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	<b>T</b>	G 0010	
	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	
	MA160101 - 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 MILE SAL Mathematics	Instructor, 1 section	Summer 2017	
	MEP ABU Galculus I	Co-Instructor, 1 section	Summer 2017	
	MA102 - Calculus II MA10000 A C I I I II	Co-Instructor, 1 section	Summer 2017	
	MED MITE CAT M 1	Leacning Assistant, 2 sections	Spring 2017	
	MEP MILE SAL Mathematics	Instructor, 1 Section	Summer 2016	
	MAZ01 - Calculus III MED MITE CAT Mathematic	Recitation Instructor, 3 sections	Fall 2015	
	MA152 College Algebra	Instructor, 1 section	Summer 2015	
	MA155 - College Algebra	Instructor, 1 section	Spring 2015	

		MA153 - College Algebra MEP MITE SAT Mathematics MA162 - Calculus II MA173 - Honors Calculus I and II	Instructor, 2 sections Instructor, 1 section Recitation Instructor, 1 sect Recitation Instructor, 1 sect	Fall 2014           Summer 2014           Sion         Spring 2014           Sion         Fall 2013	
UNDERGRADUATE	1.	Pomona Research in Mathematics Experience		Jun. 2021 - Aug. 2021	
RESEARCH	1.	Students: Alvssa Brasse (Hunter College). New	vin Etter (Washington and L	ee University).	
PROJECTS ADVISE	D	Gustavo Flores (Carleton College).	Andrew Miller (University of	California, Santa	
		Barbara), and Summer Soller (Univ	versity of Utah)		
		Tonic: Minimal Discriminants of Bational Elli	ntics with Prescribed Isogeny	v Graphs	
	2.	MSBI-UP 2020 Research Project (co-advised y	with Edray Goins)	Jun. 2020 - Jul. 2020	
		Students: Samuel Heard (University of Oklaho	oma), Fabian Ramirez (Sonor	na	
		State University). Vanessa Sun (Hu	nter College)		
		<i>Topic:</i> Automorphism and Monodromy Grou	ps of Classical Modular Curv	'es	
	3.	MSRI-UP 2020 Research Project (co-advised v	with Edrav Goins)	Jun. 2020 - Jul. 2020	
		Students: Ra-Zakee Muhammad (Pomona Col	lege). Javier Santiago (Unive	rsity of	
		Puerto Rico, Río Piedras), Evob Ts	egaye (Stanford University)	U U	
		<i>Topic:</i> Explicit Constructions of Finite Group	ps as Monodromy Groups		
	4.	MSRI-UP 2020 Research Project (co-advised Sofía Martinez)	l with Edray Goins and	Jun. 2020 - Jul. 2020	
		Students: Nicholas Arosemena (Morehouse Co	ollege), Yaren Euceda (Univer	sity of	
		Minnesota, Twin Cities), Ashly Pow	vell (University of the Virgin	Islands)	
		Topic: Dessin d'Enfants from Cartographic G	roups		
	5.	Carleton College Towsley Fund for Winter Res	search	Dec. 2019	
		Student: Abigail Loe			
		Topic: Database of Modified Szpiro Ratios	of Rational Elliptic Curves w	ith non-Trivial Isogeny	
	6.	Pomona Research in Mathematics Experience		Jun. 2019 - Aug. 2019	
		Students: Alvaro Cornejo (University of Califo	ornia, Santa Barbara), Owen	Ekblad (University of	
		Michigan, Dearborn), Marietta Geis	st (Carleton College), Kayla I	Harrison (Eckerd	
		College), and Abigail Loe (Carleton	College)		
		Topic: Minimal Discriminants of Rational Elli	ptic Curves with a non-trivia	l Rational Isogeny	
		• Recipients of the MAA MathFest 2019 Nu Award	umber Theory Undergraduate	Research Presentation	
		• AMS Blog Post: The The MathFest Expe	rience by A. Cornejo and K.	Harrison	
Undergraduate	1.	Carleton Senior Integrative Exercise		Jan. 2022 - May 2022	
SENIOR THESIS		Students: David Chae, John Groos, Chi Nguyen, Xander Roti, Sabrine Shanaa			
ADVISED		Topic: Modular Forms			
	2.	Carleton Senior Integrative Exercise		Sept. 2020 - Mar. 2021	
		Students: Jack Heinzel, Daniel Kleber, Matt M	Mendiola		
		<i>Topic:</i> Class Groups of Elliptic Dedekind D	Domains	-	
	3.	Carleton Senior Integrative Exercise		Sept. 2019 - Mar. 2020	
		Students: Sam Chen, Marietta Geist, Alex Kin	ral, Brody Lynch		

Topic: Kummer's Proof of Fermat's Last Theorem for Regular Primes

Fellowship,	1. Invited Le	ecture Series for the Arizona Winter School	Jan. 2021 - Mar. 2021 Sept. 2020
HONORS, AND	2. Lathisms	Honoree	Jun 2018 - Aug 2019
	3. MAA Pro	ject NExT Fellow	Sopt 2018 Aug 2019
	4. CFD Fello		Jap 18 2010
	5. NSF Math	h Institute's Award for Best Presentation	Jan. 10, 2019
Professional	1. Member,	The Honors College at Miami Dade Alumni Advisory Commi	ttee
ACTIVITIES AND	2. Panel Par	ticipant, Lunch in the Time of Covid	Mar. 17, 2021
SERVICE	Topic:	Investing in the Future of Mathematics	
	3. Panel Par	$ticipant, OURFA^2M^2$	Dec. 19, 2020
	Topic:	Our Stories	
	4. Panel Par	ticipant, Field of Dreams Conference	Nov. 6, 2020
	Topic:	The Value of Undergraduate Research Experiences	
	5. Co-organi	zer, MAA MathFest Workshop* Canceled due to COVID	Jul. 30, 2020
	Topic:	Navigating Academia as an Underrepresented Early Career I	Mathematician
	6. Discussion	n Facilitator, JMM Session	Jan. 16, 2020
	Topic:	Identifying and Managing Microaggressions	
	7. Panel Par	ticipant, USTARS Conference	Apr. 27, 2019
	Topic:	Mentoring Panel	
	8. Panel Par	ticipant, TRIO at Carleton	Apr. 5, 2019
	Topic:	First Generation Faculty Panel	
	9. Presenter,	, Prairie Creek Community School's STEM Day	Feb. 21, 2019
	Topic:	Hilbert's Hotel and Combinations	
	10. Session C	o-organizer, JMM Session	Jan. 16, 2019
	Topic:	Standards-based Grading: Tools and Tips for Successful Imp	blementation
	11. Member, 1	NAM Editorial Board	May 2018 - Apr. 2019
	12. Tutor, AG	EP, LSAMP, and Purdue Science Bound	Jan. 2016 - May 2018
	13. Mentor, A	Association for Women in Mathematics (AWM) - Purdue Cha	pter Jul. 2015 - May 2018
	14. Workshop Topic:	<i>Co-organizer</i> , Purdue Office of Graduate Diversity Initiatives How to Prepare for Prelims	Oct. 24, 2017
	15. Workshop Topic:	<i>Co-organizer</i> , SROP GRE Mathematics Workshop	Jul. 8 and 15, 2017
	16. Panel Par Topic:	ticipant, LSAMP and SROP Life in Graduate School	Jun. 6, 2017
	17. Mentor, P	Purdue Graduate School eMentoring Program	Sept. 2016 - Apr. 2017
	18. Mentor, P	Purdue University Minority Engineering Program	Aug. 2015 - Dec. 2016
	19. Recruiter,	California Forum for Diversity in Graduate Education	Nov. 5, 2016
	20. Panel Par Topic:	<i>ticipant</i> , Purdue Science Bound What is Mathematics?	Oct. 4, 2016
	21. Workshop	Co-organizer, The Summer Research Opportunities Program	n (SROP)
	Topic:	GRE Mathematics Workshop	Jul. 9 and 16, 2016
	22. Panel Par	ticipant, LSAMP	Jul. 12, 2016

Topic: Graduate School

TALKS

	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
Given	1.	(Invited talk) TBD Mathematics Colloquium Cal State East Bay, Hayward, CA	March 18, 2022
	2.	(Invited talk) <i>TBD</i> Latinx in the Mathematical Sciences Conference Institute for Pure and Applied Mathematics, Los Angeles, USA	March 3, 2022
	3.	(Invited talk) An Explicit Approach to the Arithmetic of Ellipitic Curv AMS Special Session on A Showcase of Number Theory at Undergraduat Joint Mathematics Meetings, Seattle, WA	es 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) <i>TBD</i> 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 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)	neorem Jan. 29, 2021
	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	ieorem

	Macalester College, St. Paul, MN	Feb. 3, 2020
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	Oct. 10, 2019
21.	A Historical Approach to Infinite Series MAA Session on Understanding Mathematics Through its History MAA MathFest, Cincinnati, OH	Aug. 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	Apr. 5, 2019
24.	(Invited talk) Minimal Discriminants of Rational Elliptic Curves with non-Tri AMS Special Session on Arithmetic Dynamics University of Hawaii, Honolulu, HI	ivial Torsion 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 Tor NAM Haynes-Granville-Browne Session of Presentations by Recent Doctoral Rec Joint Mathematics Meetings, Baltimore, MD	rsion cipients Jan. 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	Jan. 18, 2019
28.	Humanizing Calculus MAA Session on Humanistic Mathematics Joint Mathematics Meetings, Baltimore, MD	Jan. 17, 2019
29.	$1 + 2 + 3 + \dots = -\frac{1}{12}$ ? An Introduction to Analytic Continuation MAA North Central Fall Sectional Meeting Southwest Minnesota State University, Marshall, MN	Oct. 12, 2018
30.	Minimal Models of Rational Elliptic Curves with non-Trivial Torsion Ph.D. Defense Purdue University, West Lafayette, IN	Apr. 11, 2018
31.	Minimal Models of Rational Elliptic Curves with non-Trivial Torsion	• , -

	Arithmetic of Algebraic Curves 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 Lafavette, IN	Apr. 14, 2016
44.	An Overview of Modern Mathematics through the Topics of the SAT Purdue Science Bound Purdue University, West Lafavette, IN	Mar. 29, 2016
45.	Dirichlet's Theorem on Primes in Arithmetic Progression Student Colloquium Purdue University West Lafavette IN	Ian 27 2016
46.	A Riemann-Roch Theorem for Number Fields and Sheaves Riemann-Roch Seminar Purdue University, West Lafavette, 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 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 $Z_2 \times Z_4$ Elliptic Curves and Applications Mathematical Sciences Research Institute, Berkeley, CA	$_{4}$ and $Z_{2} \times Z_{8}$ July 23, 2010
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	Jul. 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

Conferences Attended

10.	AMS Spring Central and Western Joint Sectional Meeting #1147 University of Hawaii, Honolulu, HI	Mar. 22-24, 2019
11.	Joint Mathematics Meetings 2019 Baltimore, MD	Jan. 16-19, 2019
12.	Sixth Abel Conference: A Mathematical Celebration of Robert P. Langlands University of Minnesota, Minneapolis, MN	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 Groups Institute for Mathematics and its Applications, Minneapolis, MN	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
	36. SACNAS National Conference Dallas, TX	Oct. 15-18, 2009
Citizenship and Languages	Born on October 29, 1988 in Miami, Florida, United States 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 So	ciences (SACNAS)