Curriculum Vitae

Jayce R. Getz

Department of Mathematics	Phone: 919–660–6973
Duke University	Fax : 919–660–2821
Durham, NC 27708	225 Physics
jgetz@math.duke.edu	https://sites.duke.edu/jgetz/
Citizenship	USA
Education	
PhD, Mathematics, University of Wisconsin at I (Advisor: Ken Ono)	Madison August 2007
AB, Mathematics, Harvard University (with High Honors)	May 2004
Professional Positions	
Associate Professor (with tenure)	2019–present
Department of Mathematics, Duke Univers	ity
Assistant Professor	2012–2019
Department of Mathematics, Duke Univers	ity
Assistant Professor	2010-2012
Department of Mathematics and Statistics,	McGill University
Veblen Research Instructor	2007-2010
Department of Mathematics, Princeton Uni	iversity and IAS

Research Interests

Number theory Automorphic representation theory Related topics in harmonic analysis and arithmetic geometry

Publications

- (1) (with N. Arala, J. Hou, C-H. Hsu, H. Li, and V. Y. Wang) A nonabelian circle method, submitted for publication (arXiv:2407.11804).
- (2) (with H. Hahn) An introduction to Automorphic representations with a view toward Trace Formulae, Graduate Texts in Mathematics, Vol 300, Springer, 2024.
- (3) Summation formulae for quadrics, submitted for publication (arXiv:2201.02583).
- (4) (with Y. Choie) Schubert Eisenstein series and Poisson summation for Schubert varieties, accepted for publication in Amer. J. Math (arXiv:2107.01874).

- (5) (with C-H. Hsu) *The Fourier transform for triples of quadratic spaces*, recommended pending revision in Annales de' l'institute Fourier.
- (6) (with C-H. Hsu and S. Leslie) *Harmonic analysis on certain spherical varieties*, J. Eur. Math. Soc., (2023), published online first.
- (7) (with B. Liu) A refined Poisson summation formula for certain Braverman-Kazhdan spaces, Sci. China Math, (2020).
- (8) (with B. Liu) A summation formula for triples of quadratic spaces, Adv. Math., Vol. 347, (2019) 150–191.
- (9) A summation formula for the Rankin-Selberg monoid and a nonabelian trace formula, Amer. J. Math, Vol. 142, No. 5 (2020), 1371–1407.
- (10) Secondary terms in asymptotics for the number of zeros of quadratic forms over number fields, J. London Math. Soc., Vol. 98, No. 2 (2018), 275–305.
- (11) Nonabelian Fourier transforms for spherical representations, Pacific J. Math., Vol. 294 (2018), 351–373.
- (12) Automorphic kernel functions in four variables, Research in the Mathematical Sciences, Vol. 3, No 20. (2016), 1–26.
- (13) (with H. Hahn) A general simple relative trace formula, Pacific J. Math., Vol. 277, No 1 (2015), 99–118.
- (14) (with P. Edward Herman) A nonabelian trace formula, Research in the Mathematical Sciences, Vol. 2, No 14 (2015), 1-21.
- (15) (with J. Klassen) Isolating Rankin-Selberg lifts, Proc. Amer. Math. Soc., Vol. 143, No 8 (2015), 3319–3329.
- (16) (with H. Hahn) Algebraic cycles and Tate classes on Hilbert modular varieties, Int. J. Number Theory, Vol. 10, No 1 (2014), 161–176.
- (17) (with E. Wambach) Twisted relative trace formulae with a view towards unitary groups, American J. Math., Vol. 136, No 1 (2014), 1–57.
- (18) An approach to non-solvable base change and descent, J. Ramanujan Math. Soc., Vol. 27, No. 2 (2012) 143-211.
- (19) (with M. Goresky) Hilbert modular forms with coefficients in intersection homology and quadratic base change, Progress in Mathematics, Vol 298, Birkhäuser, 2012.
- (20) Intersection numbers of Hecke cycles on Hilbert modular varieties, American J. Math., Vol. 129, No. 6 (2007), 1623–1658.
- (21) (with S. Basha, H. Nover, and E. Smith) Systems of orthogonal polynomials arising from the modular j-function, J. Math. Anal. Appl., Vol. 289, No. 1 (2004), 336–354.
- (22) (with K. Mahlburg) Partition identities and a theorem of Zagier, J. Combin. Theory Seri. A, 100 (2002), 27–43.

- (23) Extension of a theorem of Kiming and Olsson for the partition function, Ramanujan J., Vol. 5, No. 1 (2001), 47–51.
- (24) On congruence properties of the partition function, Int. J. Math. Math. Sci., Vol. 23, No. 7 (2000), 493–496.

Awards and Honors

NSF Individual Grant, DMS-2400550 (\$220,000) Duke University	2024-2027
NSF RTG Grant, DMS-2231514 (\$2,500,000) Duke University (Co-PI)	2023-2028
Enseignant Chercheur Invité (R. Beuzart-Plessis and V. Heiermann) Aix-Marseille Université (AMU), Marseille, France	Jan, Jun 2022
Visiting Associate Professor (Y. Choie) POSTECH Mathematics Institute (PMI), Pohang, South Korea	Spring 2021
Visitor (D. Kazhdan) Einstein Institute of Mathematics (EIM), Jerusalem, Israel	June 2019
NSF Individual Grant, DMS-1901883 (\$290,715) Duke University	2019-2022
Visitor, supported by the EIM (D. Kazhdan) Einstein Institute of Mathematics (EIM), Jerusalem, Israel	August 2018
Member of the IAS, supported in part by C. Simonyi Endowment Institute for Advanced Study (IAS), Princeton, NJ	Spring 2018
Visiting Scholar, supported in part by the KIAS (Y-S Choi) Korea Institute for Advanced Study (KIAS), Seoul, Korea	August 2016
NSF Individual Grant, DMS-1405708 (\$153,000) Duke University	2014-2018
Joint Winner of the Ferran Sunyer i Balaguer Prize ($\in 15,000$) Barcelona, Spain (with Mark Goresky at IAS)	2011
NSERC Discovery Grant (\$85,000) McGill University	2010-2015
NSF Postdoctoral Research Fellowship (\$108,000) Princeton University and IAS	2007-2010
Excellence in Mathematical Research Award (\$400) Department of Mathematics, University of Wisconsin at Madisor	2007
NDSEG Fellowship (\$84,000) University of Wisconsin at Madison	2004-2007
Phi Beta Kappa member Harvard University	2004

Dean's List, Rank I (highest rank Harvard University	king) 200	0-2004
Detur Book Prize Harvard University		2002
Intel Science Talent Search (\$75,0 2nd place	000)	2000
Karl Menger Memorial Award International Science and Er	ngineering Fair (administered by the AMS)	2000
International Science and Engine 2nd place overall	ering Fair	2000
International Science and Engine 1st place in Mathematics	ering Fair	2000
Postdocs Mentored		
Farid Hosseinijafari	2024-j	present
Aaron Slipper	2024-]	present
Winston Spencer Leslie (NSF Pos First tenure track job at Bos	stdoc) 201 ston College	.8–2022
Michael Lipnowski First tenure track job at Mc	Gill 201	.3–2016
Fritz Hoermann (McGill) First tenure track job at Uni	201 iversität Freiburg	0-2011
Graduate Students Supervised		
(1) Horace Fusco	2024-1	present
(2) HaoYun Yao	2023-	present
(3) Bobby (Zixuan) Zhang	2023-	present
(4) Jin Lee	2022	present
(5) Chun-Hsien Hsu Dickson Instructor at Univer	201 csity of Chicago	9-2024
(6) Pam (Miao) Gu Postdoc at University of Mic	201 chigan, Ann-Arbor	.8–2023
(7) Chung-Ru Lee Postdoc at National Univers	201 ity of Singapore	.6–2022
(8) Thomas (Huong) Tran Postdoc at University of Ker	201 atucky	.5-2020

(9) Jason Polák Postdoc at University of Melbourne	McGill, 2011–2016
(10) Maxime Turgeon, (MS) Biostatistics PhD student at McGill University	McGill, 2011–2013
Undergraduate Students Supervised	
Lucas Fagan, Craig Fiedorek, Diego Sosa-Fundora, Tony Sun, I DOmath2019 program, Duke University	Henry Zhang Summer 2019
Trung Can, Ben Nativi, Gary Zhou DOmath2017 program, Duke University	Summer 2017
Josh Izzard PRUV program, Duke University	May 2013–Apr 2014
Jamie Klassen McGill University	Summer 2012
High School Students Supervised	
Nolan Miranda Angela Deng Erik Anderson	May 2016–Aug 2016 May 2014–Dec 2015 2010–2011
Invited Talks	
 The fiber bundle method applied to triple product L-functions: Application of the fiber bundle method Automorphic Forms and Trace Formulae AMS Special Session, Howard University 	April 2024
 (2) The Poisson summation conjecture and the fiber bundle method Arithmetic Quantum Field Theory Program, Harvard CM 	<i>l</i> March 2024 SA.
(3) On the Poisson summation conjecture Geometric Methods in Representation Theory Seminar	February 2023
University of North Carolina at Chapel Hill.	
 (4) Automorphic kernel functions supported on base changes and mulae Automorphic forms, their arithmetic, and their application 	nonabelian trace for- October 2023 ns,
AMS Special Session, Creighton University.	
(5) Integral representations related to triple product L-functions Lie Theory Seminar, University of Minnesota.	April 2023

(6)	Fourier analysis beyond vector spaces Colloquium, University of Minnesota.	April 2023
(7)	Integral representations related to triple product L-functions Number Theory/Representation Theory Seminar, Boston College.	Iarch 2023
(8)	Integral representations related to triple product L-functions Dece Number Theory Seminar, POSTECH Math Institute (Virtual).	mber 2022
(9)	Masterclass: Relative trace formulae (5 lectures) Mathematics Department, University of Copenhagen	Aug 2022
(10)	The Poisson summation conjecture Sur l'équation fonctionelle des fonctions L automorphes Course by Ngô B. C., Collège de France.	Jun 2022
(11)	Integral representations related to triple product L-functions Seminar, Department of Mathematics, Université Aix-Marseille.	Jun 2022
(12)	Summation formulae for quadrics Recent Developments in Automorphic Forms and Representations of p- AMS Special Session, Purdue University	Mar 2022 -adic Groups,
(13)	Summation formulae for quadrics Periods, Functoriality and L-functions, CIRM, France	Jan 2022
(14)	Poisson summation formulae for flag and Schubert varieties Colloquium, Department of Mathematics, Purdue University (Virtua	Nov 2021 l)
(15)	Beyond endoscopy and boundary terms in reductive monoids with a vie nonabelian trace formulae Basic Functions, Orbital Integrals, and Beyond Endoscopy, BIRS (Vi	ew towards Nov 2021 irtual)
(16)	An approach to triple product L-functions Number Theory Seminar, Rutgers University (Virtual)	Oct 2021
(17)	The Poisson summation conjecture for generalized Schubert varieties Algebra and Number Theory Day, Johns Hopkins University	Sep 2021
(18)	Harmonic analysis on certain spherical varieties Galois Representations and Automorphic Forms, MCA 2021 (Virtual	July 2021 l)
(19)	Harmonic analysis on certain spherical varieties Relative Aspects of the Langlands Program, <i>L</i> -functions, and Beyond I CIRM (Virtual)	May 2021 Endoscopy,
(20)	New Avenues for the Circle Method (4 talks) The Circle Method: Entering its Second Century, HCM (Virtual)	May 2021
(21)	Harmonic analysis on certain spherical varieties Representation Theory and Number Theory Seminar, NUS (Virtual)	Apr 2021

(22)	Harmonic analysis on certain spherical varieties Recent Developments in Automorphic Representations, AMS Session	Mar 2021 (Virtual)
(23)	A Poisson summation formula for triples of quadratic spaces Colloquium, Department of Mathematics, POSTECH (Virtual)	Nov 2020
(24)	A Poisson summation formula for triples of quadratic spaces Trends in Arithmetic Geo. and Rep. Theory, KMS Special Session (V	Oct 2020 /irtual)
(25)	Summation formulae and triple product L-functions Number Theory Seminar, POSTECH Math Institute (Virtual)	Oct 2020
(26)	On triple product L-functions Joint Number Theory Seminar, Princeton and the IAS (Virtual)	May 2020
(27)	On triple product L-functions Number Theory Seminar, UCLA (Virtual)	May 2020
(28)	On triple product L-functions Number Theory and Representation Theory, University of Wisconsin	Apr 2020 (Virtual)
(29)	Summation formulae for triples of quadratic forms Hawaii Number Theory Conference, University of Hawaii at Manoa	Mar 2019
(30)	Secondary terms for the number of solutions of quadratic forms On Counting Methods in Number Theory, Joint AMS-MAA meeting,	Jan 2019 Baltimore
(31)	On triple product L-functions On the Langlands Program: Endoscopy and Beyond, IMS-NUS, Singa	Jan 2019 apore
(32)	On triple product L-functions BC-MIT number theory seminar, Boston College	Dec 2018
(33)	Proving summation formulae for spherical varieties (3 talks) Workshop on L-functions, Langlands functoriality and Trace formula, including relative aspects, Porquerolles, France	Sep 2018
(34)	Summation formulae for triples of quadratic forms Geometric Representation Theory and the Langlands Program Joint AMS-CMS Meeting, Fudan University, China	June 2018
(35)	Summation formulae and speculations on period integrals attached to triple morphic representations Number Theory Seminar, Northwestern University	es of auto- May 2018
(36)	Summation formulae and speculations on period integrals attached to triple morphic representations Number Theory Seminar, University of British Columbia, Vancouver,	es of auto- Apr 2018 Canada
(37)	Summation formulae and speculations on period integrals attached to triple morphic representations	es of auto- Mar 2018

Joint Number Theory Seminar, Princeton University and the IAS

(38)	Summation formulae and speculations on period integrals attached to tripl morphic representations Lie Groups Seminar, Cornell University	es of auto- Mar 2018
(39)	Summation formulae and speculations on L-functions attached to triples of phic representations Joint Number Theory Seminar, Columbia, CUNY, NYU	f automor- Feb 2018
(40)	New families of period integrals for general linear groups Automorphic Forms and Representation Theory Seminar, Purdue Un	Feb 2018 iversity
(41)	A summation formula for triples of quadratic spaces Group, Lie and Number Theory Seminar, University of Michigan	Nov 2017
(42)	A summation formula for triples of quadratic spaces Algebra and Number Theory Seminar, Yale University	Nov 2017
(43)	A summation formula for triples of quadratic spaces Automorphic Forms and Related Topics, Vietnam IASM (VIASM), H	Aug 2017 Ia Long
(44)	Summation formula for the Rankin-Selberg monoid via the circle method Harmonic analysis and the trace formula, MFO, Oberwolfach, Germa	May 2017 any
(45)	Summation formula for the Rankin-Selberg monoid via the circle method Automorphic forms and related topics, AMS Special Session, Hunter	May 2017 College
(46)	Summation formula for the Rankin-Selberg monoid via the circle method Automorphic Forms and Representation Theory Seminar, Purdue Un	Feb 2017 iversity
(47)	Triple product L-functions and limiting forms of trace formulae Number Theory Seminar, Korea Institute for Advanced Study (KIAS	Aug 2016 S), Korea
(48)	The Langlands Functoriality Conjecture Department Colloquium, Sookmyung Women's University, Seoul, Kor	Aug 2016 rea
(49)	Triple product L-functions and limiting forms of trace formulae Number Theory Seminar, Yonsei University, Seoul, Korea	Aug 2016
(50)	Triple product L-functions and limiting forms of trace formulae Number Theory and Algebraic Geometry Seminar, Boston College	Mar 2016
(51)	Triple product L-functions and limiting forms of trace formulae Langlands Program Seminar, CUNY Graduate Center	Mar 2016
(52)	Triple product L-functions and limiting forms of trace formulae Automorphic Forms Workshop, Wake Forest University	Mar 2016
(53)	Four-variable automorphic kernel functions Illinois Number Theory Conference, UIUC	Aug 2015
(54)	Remarks on a paper of Frenkel, Langlands and Ngo Workshop on L-functions and trace formula, Purdue University	May 2015
(55)	Descent and base change with a view towards the Artin conjecture Department Colloquium, Emory University	Jan 2015

(56)	A nonabelian trace formula ELEFANT workshop, Hausdorff Center, Bonn, Germany	July 2014
(57)	A nonabelian trace formula Special Seminar, University of Chicago	Dec 2013
(58)	An approach to nonsolvable base change for GL(2) Lie Theory Seminar, University of Minnesota	Apr 2013
(59)	An approach to nonsolvable base change for GL(2) Number Theory Seminar, University of South Carolina	Dec 2012
(60)	An approach to nonsolvable base change for GL(2) Athens and Atlanta Number Theory Day, Emory University	Oct 2012
(61)	An approach to nonsolvable base change for GL(2) Midwest Number Theory Day, UIUC	Oct 2012
(62)	An approach to nonsolvable base change for GL(2) Number Theory Seminar, Harvard University	Apr 2012
(63)	Hilbert modular forms with coefficients in intersection homology SAGG, Laval University	Mar 2012
(64)	An approach to nonsolvable base change and descent Department Colloquium, Duke University	Feb 2012
(65)	An approach to nonsolvable base change and descent Department Colloquium, University of Maryland	Jan 2012
(66)	An approach to nonsolvable base change and descent Department Colloquium, Johns Hopkins University	Jan 2012
(67)	An approach to nonsolvable base change and descent Department Colloquium, Cornell University	Nov 2011
(68)	Distinction, special cycles, and twisted relative trace fomulae Number Theory Seminar, University of Chicago	May 2011
(69)	Twisted relative endoscopy Number Theory and Algebraic Geometry Seminar, Yale University	Mar 2011
(70)	Relative endoscopy and arithmetic of Shimura varieties Number Theory Seminar, Kyoto University	Oct 2010
(71)	Relative endoscopy and arithmetic geometry of Shimura varieties (3 talk. Special values of L-functions and arithmetic geometry, Miyama, Ky	s) Oct 2010 oto, Japan
(72)	Elliptic descent of global orbital integrals Canadian Number Theory Association XI, Acadia University	July 2010
(73)	Twisted relative trace formulae Lie theory Seminar, Cornell University	Oct 2009
(74)	Twisted relative trace formulae with applications to unitary groups Algebraic Geometry and Number Theory Seminar, Johns Hopkins U	Feb 2009 Jniversity

(75)	Trace formulae and locally symmetric spaces Department Colloquium, Boston College	Jan 2009
(76)	Trace formulae and locally symmetric spaces Department Colloquium, McGill University	Dec 2008
(77)	Twisted relative trace formulae with applications to unitary groups Québec-Vermont Number Theory Seminar, McGill University	Dec 2008
(78)	Trace formulae and locally symmetric spaces Members Seminar, Institute for Advanced Study (IAS)	Dec 2008
(79)	Twisted relative trace formulae with applications to unitary groups Shimura Varieties and Trace Formula Seminar, IAS	Nov 2008
(80)	Twisted relative trace formulae with applications to unitary groups Number Theory and Representation Theory Seminar, University of	Nov 2008 f Toronto
(81)	Twisted relative trace formulae with applications to unitary groups Number Theory Seminar, McMaster University	Nov 2008
(82)	Twisted relative trace formulae with applications to unitary groups Number Theory Seminar, University of Maryland	Sep 2008
(83)	Twisted relative trace formulae with applications to unitary groups Automorphic Forms and Number Theory Seminar, University of M	Sep 2008 Iinnesota
(84)	Twisted relative trace formulae Colloquium, University of Minnesota	Sep 2008
(85)	Twisted relative trace formulae with a view towards unitary groups Locally Symmetric Spaces, Banff International Research Station	May 2008
(86)	Jacquet-Langlands transfer and distinction Number Theory Seminar, UCLA	Feb 2008
(87)	Jacquet-Langlands transfer and distinction Number Theory Seminar, Caltech	Feb 2008
(88)	Relative trace formulae with a view towards Shimura varieties Number Theory and Representation Theory Seminar, University of	Feb 2008 f Michigan
(89)	Hilbert modular forms with coefficients in intersection homology Algebra and Number Theory Seminar, Penn State University	Nov 2007
(90)	Hilbert modular forms with coefficients in intersection homology Algebraic Geometry Seminar, Duke University	Oct 2007
(91)	Hilbert modular forms with coefficients in intersection homology Joint Number Theory Seminar, Princeton University and IAS	Sep 2007
(92)	Hilbert modular forms with coefficients in intersection homology Algebraic Geometry Seminar, University of Chicago	May 2007
(93)	Hilbert modular forms with coefficients in intersection homology Number Theory and Representation Theory Seminar, University of	Mar 2007 f Toronto

(94)	Hilbert modular forms with coefficients in intersection homology Automorphic Forms Seminar, University of Minnesota	Mar 2007
(95)	Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, Boston College	Feb 2007
(96)	Intersection homology theory of Hilbert modular varieties Mathematics Seminar, Johns Hopkins University	Jan 2007
(97)	Hilbert modular forms with coefficients in intersection homology Automorphic Forms and Representation Theory Seminar, Purdue U	Nov 2006 University
(98)	Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, The Ohio State University	Oct 2006
(99)	Hilbert modular forms with coefficients in intersection homology Arithmetic Geometry Seminar, Humboldt University, Germany	July 2006
(100)	Hilbert modular forms with coefficients in intersection homology Computational Arithmetic Geometry, AMS Special Session, San Fra	Apr 2006 ancisco, CA
(101)	Hilbert modular forms with coefficients in intersection homology Combinatorics, Algebra and Number Theory Seminar, Iowa State U	Apr 2006 University
(102)	Hilbert modular forms with coefficients in intersection homology Arithmetic Geometry and Modular Forms, AMS Special Session, San Antonio, TX	Jan 2006
(103)	Introduction to intersection homology Mathematics Seminar, Osaka University	Jan 2006
(104)	Hilbert modular forms with coefficients in intersection homology Automorphic representations, L-functions, and Periods, RIMS, Kyo	Jan 2006 to, Japan
(105)	Hilbert modular forms with coefficients in intersection homology Intersection of Arithmetic Cycles and Automorphic Forms, CRM	Dec 2005
(106)	Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, Johns Hopkins University	Nov 2005
(107)	Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, Brown University	Nov 2005
(108)	Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, UCLA	Oct 2005
(109)	Intersection numbers of Hecke cycles on Hilbert modular varieties NSF Focused Research Group workshop, University of Maryland	Oct 2005
(110)	Intersection numbers of Hecke cycles on Hilbert modular varieties Number Theory Seminar, University of Rochester	Mar 2005
(111)	Intersection numbers of Hecke cycles on Hilbert modular varieties Number Theory Seminar, University of Wisconsin	Feb 2005

(112)	Classical and p-adic modular forms arising from the Borcherds exponen	ts of other
	modular forms	Apr 2004
	Joint Trivial Notions and Modular Seminar, Harvard University	
(113)	Systems of orthogonal polynomials arising from the modular <i>j</i> -function Continued Fractions, AMS Special Session, Phoenix, AZ	Jan 2004
(114)	Systems of orthogonal polynomials arising from the modular j-function Modular Curves Seminar, Harvard University	Sep 2003
(115)	Systems of orthogonal polynomials arising from the modular j-function Number Theory Seminar, University of Wisconsin	July 2003
(116)	A generalization of a theorem of Rankin and Swinnerton-Dyer on zeros	of modular
	forms	July 2002
	Number Theory Seminar, University of Wisconsin	
(117)	Partition identities and a theorem of Zagier Modular Forms Seminar, Harvard University	Nov 2001
(118)	Partition identities and a theorem of Zagier Math Table Seminar, Harvard University	Nov 2001
(119)	Partition identities and a theorem of Zagier Number Theory Seminar, University of Wisconsin	July 2001

Other Talks and Lectures

Why and how to be a mathematician	
with vignettes from the Langlands program	Oct 2023
Graduate Research Opportunities Workshop (GROW), Duke Univer	rsity
Summation formula for spherical varieties	$\mathrm{Sep}\ 2018$
Number Theory Seminar, Duke University	
An invitation to modern number theory via elliptic curves	June 2018
Summer Workshop in Math for female high school students, Duke U	Jniversity
An approach to nonsolvable base change for $GL(2)$	Feb 2013
Graduate & Faculty Seminar, Duke University	
Intersection homology for Hilbert modular varieties	Apr 2011
Montreal-Toronto Meeting on Hilbert modular varieties, Fields Insti	tute
Relative endoscopy and arithmetic of Shimura varieties	Sep 2010
Montreal-Toronto Meeting on Arithmetic of Shimura varieties, CRM	1
Hilbert modular forms with coefficients in intersection homology	Oct 2006
Midwest Number Theory Conference IV, UIUC	
Hilbert modular forms with coefficients in intersection homology	July 2006
Recent Developments in the Arithmetic of Shimura Varieties and Ar	rakelov
Geometry, CRM, Bellaterra, Spain	

Intersection numbers of Hecke cycles on Hilbert modular varieties Midwest Number Theory Conference III, University of Wisconsin	Nov 2005
Intersection numbers of Hecke cycles on Hilbert modular varieties ArithmeTexas, Texas A&M	Apr 2005
Intersection numbers of Hecke cycles on Hilbert modular varieties 19th Annual Automorphic Forms Workshop, UTexas at Denton	Mar 2005
Intersection numbers of Hecke cycles on Hilbert modular varieties Midwest Number Theory Conference II, UIUC	Feb 2005
Systems of orthogonal polynomials arising from the modular <i>j</i> -function Additive Number Theory Conference, University of Florida	Nov 2004
Systems of orthogonal polynomials arising from the modular <i>j</i> -function Big Sky Conference on Discrete Math, University of Montana	Sep 2003

Professional Service

Founder and Organizer of the Duke Research Scholars progra	m
Duke University	2023-2024
Faculty Leader for DOmath2019 program	
Duke University	Summer 2019
Co-Organizer of AMS session on Recent developments in Aut University of Hawaii, Manoa	omorphic Forms Mar 2019
Pure ARP Search Committee	
Duke University	Jan 2018
Faculty Leader for DOmath2017 program	
Duke University	Summer 2017
Member of Graduate Admission Committee	
Duke University	2016-2017
Co-Organizer of AIM Workshop on Automorphic Kernel Fund	ctions
American Institute of Mathematics	Nov 30–Dec 4, 2015
Pure ARP Search Committee	,
Duke University	Jan 2015
Co-Organizer of AMS Session on Automorphic Forms and Be	lated Topics
University of North Carolina at Greensboro	Nov 2014
Co-Founder and Co-Organizer of UNC-Duke Number Theory	Seminar
Duke University	2012-present
Organizer of Algebraic Geometry Seminar	I
Duke University	Fall 2012–present
Pure APP Search Committee	ran 2012 prosono
Duko University	Jan 9012
Dure Oniversity	Jan 2013

Member of Teaching Awards Committee McGill University	Fall 2011–Winter 2012
Member of Computing and Equipment Committee McGill University	Winter 2010
Co-Organizer of Québec-Vermont Number Theory Seminar McGill University	Fall 2010–Winter 2012
Co-Organizer of the Bellairs Workshop in Number Theory Barbados	May 2011
Co-Organizer of CRM-ISM Colloquium McGill University	Fall 2010–Winter 2011
Co-Organizer of Joint Number Theory Seminar Princeton University and IAS	Fall 2007–Fall 2009
Reviewer for NSF grant proposals	
Reviewer for NSA grant proposals	
Refereeing work	
Advances in Mathematics	
Algebra and Number Theory	
American Journal of Mathematics	
Annales mathématiques du Québec	
Annals of Mathematics Studies	
Bulletin of the London Mathematical Society	
Canadian Mathematical Bulletin	
Compositio Mathematica	
Documenta Mathematica	
Duke Mathematical Journal	
Forum Mathematicum	
International Journal of Number Theory	
Journal of Algebra and its Applications	
Journal of the Mathematical Society of Japan	
Journal of Number Theory	
Mathematische Zeitschrift	
Mathematische Annalen	
Pacific Journal of Mathematics	
Proceedings of the American Mathematical Society	
Science China Mathematics	
Transactions of the American Mathematical Society	

Further Activities

Arithmetic Quantum Field Theory Program Invited visitor, Harvard CMSA

Mar 2024

The 45th KAST International Symposium: Periods of Automorphic F Participant, Korean Academy of Science and Technology (Virtua	orms l) – Feb 2021
Conference on Representation Theory and Algebraic Analysis	1) 100 2021
Participant, Weizmann Institute of Science (Virtual)	May 2020
The Sixth Abel Conference: A mathematical celebration of Langlands Invited participant, IMA, University of Minnesota, Twin City	s Nov 2018
Representation Theory and Analysis in Locally Symmetric Spaces Participant, Institute for Advanced Study	Mar 2018
Functoriality and the Trace Formula Invited participant, American Institute of Mathematics	Dec 2017
Mod p/p -adic Langlands Programs Participant, Korea Institute for Advanced Study (KIAS)	Aug 2016
Analysis, Spectra and Number Theory (in honor of Peter Sarnak) Participant, Princeton University and IAS	Aug 2016
Greater Metropolitan New York Math Fair Judge, Brooklyn Technical High School	Mar 2009
The Stable Trace Formula, Automorphic Forms, and Galois Represent Participant, Banff International Research Station	tations Aug 2008
Recent Developments in Number Theory: Selmer Groups, L -function Deformations	ns, and Galois
Participant, UCLA	Mar 2008
The Tate Conjecture Participant, American Institute of Mathematics	July 2007
Automorphic Galois Representations, <i>L</i> -functions and Arithmetic Participant, Columbia University	June 2006
Advanced Course on Arakelov Geometry and Shimura Varieties Participant, CRM, Barcelona, Spain	Feb 2006
NSF Give a Day, Make a Difference Outreach Invited panelist with Leon Lederman (1988 Nobel Laureate in Ph	nysics)
and Ken Ono, Missoula, MT	May 2004
Research Experience for Undergraduates in Number Theory Participant, University of Wisconsin	Summer 2003
CBMS–The Web of Modularity Participant, UIUC	June 2003
Math Tutor and general instructor of the After School Program Peabody Middle School Fall 2002, Fall 2003	3, Spring 2004
Exchange Student in Mathematics Budapest Semesters in Mathematics	Spring 2003

International Mathematics Olympiad Awards Ceremony	
Student research invited speaker, Washington, DC	July 2001
NSF 50 Scientists and Engineers in the Schools Outreach	
Invited panelist with Leon Lederman (1988 Nobel Laureate in Physic	es)
and Ken Ono, Missoula, MT	${\rm May}~2001$
Honored by Japanese American Citizens League for work memorializing	the unjust
internment of Japanese Americans during World War II	
Missoula, MT	2000