Curriculum Vitae

Jayce R. Getz

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Citizenship
USA

Education

PhD, Mathematics, University of Wisconsin at Madison
(Advisor: Ken Ono)

AB, Mathematics, Harvard University
(with High Honors)

August 2007

May 2004

Professional Positions

Associate Professor (with tenure)
Department of Mathematics, Duke University

Assistant Professor
Department of Mathematics, Duke University

Assistant Professor
Department of Mathematics and Statistics, McGill University

Veblen Research Instructor
Department of Mathematics, Princeton University and IAS

Research Interests

Number theory: Arithmetic geometry and automorphic forms.

Publications

- (1) (with Y. Choie) Schubert Eisenstein series and Poisson summation for Schubert varieties, preprint (arXiv:2107.01874).
- (2) (with C-H. Hsu and S. Leslie) Harmonic analysis on certain spherical varieties, submitted for publication (arXiv:2103.10261).
- (3) (with C-H. Hsu) A summation formula for triples of quadratic spaces II, submitted for publication (arXiv:2009.11490).
- (4) (with B. Liu) A summation formula for triples of quadratic spaces, Adv. Math., Vol. 347, (2019) 150–191.

- (5) (with B. Liu) A refined Poisson summation formula for certain Braverman-Kazhdan spaces, Sci. China Math, (2020).
- (6) A summation formula for the Rankin-Selberg monoid and a nonabelian trace formula, Amer. J. Math, Vol. 142, No. 5 (2020), 1371–1407.
- (7) Secondary terms in asymptotics for the number of zeros of quadratic forms over number fields, London Math. Soc., Vol. 98, No. 2 (2018), 275–305.
- (8) (with H. Hahn) An introduction to Automorphic representations with a view toward Trace Formulae, Springer GTM Series, submitted for publication

Webpage https://sites.duke.edu/heekyounghahn/

- (9) Nonabelian Fourier transforms for spherical representations, Pacific J. Math., Vol. 294 (2018), 351–373.
- (10) Automorphic kernel functions in four variables, Research in the Mathematical Sciences, Vol. 3, No 20. (2016), 1–26.
- (11) (with H. Hahn) A general simple relative trace formula, Pacific J. Math., Vol. 277, No 1 (2015), 99–118.
- (12) (with P. Edward Herman) A nonabelian trace formula, Research in the Mathematical Sciences, Vol. 2, No 14 (2015), 1-21.
- (13) (with J. Klassen) *Isolating Rankin-Selberg lifts*, Proc. Amer. Math. Soc., Vol. 143, No 8 (2015), 3319–3329.
- (14) (with H. Hahn) Algebraic cycles and Tate classes on Hilbert modular varieties, Int. J. Number Theory, Vol. 10, No 1 (2014), 161–176.
- (15) (with E. Wambach) Twisted relative trace formulae with a view towards unitary groups, American J. Math., Vol. 136, No 1 (2014), 1–57.
- (16) An approach to non-solvable base change and descent, J. Ramanujan Math. Soc., Vol. 27, No. 2 (2012) 143-211.
- (17) (with M. Goresky) Hilbert modular forms with coefficients in intersection homology and quadratic base change, Progress in Mathematics, Vol 298, Birkhäuser, 2012.
- (18) Intersection numbers of Hecke cycles on Hilbert modular varieties, American J. Math., Vol. 129, No. 6 (2007), 1623–1658.
- (19) (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.
- (20) (with K. Mahlburg) Partition identities and a theorem of Zagier, J. Combin. Theory Seri. A, 100 (2002), 27–43.
- (21) Extension of a theorem of Kiming and Olsson for the partition function, Ramanujan J., Vol. 5, No. 1 (2001), 47–51.
- (22) On congruence properties of the partition function, Int. J. Math. Math. Sci., Vol. 23, No. 7 (2000), 493–496.

Awards and Honors

Visiting Associate Professor, supported by the PMI (Y. Choie) POSTECH Mathematics Institute (PMI), Pohang, South Korea	Spring 2021
Visitor, supported by the EIM (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 (€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 Madison	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 ranking) Harvard University	2000-2004
Detur Book Prize Harvard University	2002
Intel Science Talent Search (\$75,000) 2nd place	2000
Karl Menger Memorial Award International Science and Engineering Fair (administered by the	2000 AMS)
International Science and Engineering Fair 2nd place overall	2000
International Science and Engineering Fair 1st place in Mathematics	2000

Postdocs Mentored

Winston Spencer Leslie

Duke University (NSF postdoc)

Michael Lipnowski (now at McGill)

Duke University

Fritz Hoermann (now at Universität Freiburg)

2018-present
2018-present
2013-2016
2010-2011

Graduate Students Supervised

McGill University

TBA

Chun-Hsien Hsu, PhD Candidate, Duke University Fall 2019–present

Automorphic-twisted summation formulae for pairs of quadratic spaces

Miao (Pam) Gu, PhD Candidate, Duke University Fall 2018—present

Twisted relative endoscopy for unitary groups

Chung-Ru Lee, PhD Candidate, Duke University

Fall 2016—present

Secondary terms in asymptotics for the number of zeros of quadratic forms in an odd number of variables

Huong Tran, PhD, Duke University

Fall 2015–Spring 2020

The relative Hitchin filtration and relative endoscopy

Jason Polák, PhD, McGill University Fall 2011–Spring 2016

Stratifications of Shimura varieties (co-supervised with E. Goren)

Amy Cheung Woodling, PhD, McGill University Fall 2011–Spring 2016

A relative fundamental lemma for U(4)

Maxime Turgeon, MS, McGill University Fall 2011–Spring 2013

Undergraduate Students Supervised

Lucas Fagan, Craig Fiedorek, Diego Sosa-Fundora, Tony Sun, Henry Zhang

DOmath2019 program, Duke University 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

Highschool Students Supervised

 Nolan Miranda
 May 2016-Aug 2016

 Angela Deng
 May 2014-Dec 2015

 Erik Anderson
 2010-2011

Invited Talks

TBA Nov	2021
Basic Functions, Orbital Integrals, and Beyond Endoscopy, BIRS	
TBA Sep	2021
Algebra and Number Theory Day, Johns Hopkins University	
Harmonic analysis on certain spherical varieties July	2021
Galois Representations and Automorphic Forms, MCA 2021 (Virtual)	
Harmonic analysis on certain spherical varieties May	2021
Relative Aspects of the Langlands Program, L-functions, and Beyond Endos CIRM (Virtual)	copy
New Avenues for the Circle Method (4 talks) The Circle Method: Entering its Second Century, HCM (Virtual)	2021
Harmonic analysis on certain spherical varieties Apr Representation Theory and Number Theory Seminar, NUS (Virtual)	2021
Harmonic analysis on certain spherical varieties Mar	2021
Recent Developments in Automorphic Representations, AMS Session (Virt	ual)
A Poisson summation formula for triples of quadratic spaces Nov Colloquium, Department of Mathematics, POSTECH (Virtual)	2020
A Poisson summation formula for triples of quadratic spaces Oct Trends in Arithmetic Geo. and Rep. Theory, KMS Special Session (Virtual	2020 al)
Summation formulae and triple product L-functions Oct	2020
Number Theory Seminar, POSTECH Math Institute (Virtual)	
On triple product L-functions May	2020
Joint Number Theory Seminar, Princeton and the IAS (Virtual)	
On triple product L-functions May	2020
Number Theory Seminar, UCLA (Virtual)	
On triple product L-functions Apr	2020
Number Theory and Representation Theory, University of Wisconsin (Virt	ual)
Summation formulae for triples of quadratic forms Mar	2019
Hawaii Number Theory Conference, University of Hawaii at Manoa	
Secondary terms for the number of solutions of quadratic forms Jan	2019
On Counting Methods in Number Theory, Joint AMS-MAA meeting, Balti	more
	2019
On the Langlands Program: Endoscopy and Beyond, IMS-NUS, Singapore	
·	2018
BC-MIT number theory seminar, Boston College	2010
Proving summation formulae for spherical varieties (3 talks) Workshop on L-functions, Langlands functoriality and Trace formula, including relative aspects, Porquerolles, France	2018

Summation formulae for triples of quadratic forms Geometric Representation Theory and the Langlands Program, Joint AMS-CMS Meeting, Fudan University, China	June 2018
Summation formulae and speculations on period integrals attached to trips morphic representations Number Theory Seminar, Northwestern University	les of auto- May 2018
Summation formulae and speculations on period integrals attached to trips morphic representations Number Theory Seminar, University of British Columbia, Vancouver	Apr 2018
Summation formulae and speculations on period integrals attached to trips morphic representations Joint Number Theory Seminar, Princeton University and the IAS	les of auto- Mar 2018
Summation formulae and speculations on period integrals attached to trips morphic representations Lie Groups Seminar, Cornell University	les of auto- Mar 2018
$Summation\ formulae\ and\ speculations\ on\ L\mbox{-}functions\ attached\ to\ triples\ on\ phic\ representations$ $\ Joint\ Number\ Theory\ Seminar,\ Columbia,\ CUNY,\ NYU$	f automor- Feb 2018
New families of period integrals for general linear groups Automorphic Forms and Representation Theory Seminar, Purdue Un	Feb 2018 niversity
A summation formula for triples of quadratic spaces Group, Lie and Number Theory Seminar, University of Michigan	Nov 2017
A summation formula for triples of quadratic spaces Algebra and Number Theory Seminar, Yale University	Nov 2017
A summation formula for triples of quadratic spaces Automorphic Forms and Related Topics, Vietnam IASM (VIASM),	Aug 2017 Ha Long
Summation formula for the Rankin-Selberg monoid via the circle method Harmonic analysis and the trace formula, MFO, Oberwolfach, Germanic analysis and the trace formula, MFO, Oberwolfach, Germanic analysis and the trace formula, MFO, Oberwolfach, Germanic analysis and the trace formula and the trace for the trace formula and the trace formula and the trace for the t	
Summation formula for the Rankin-Selberg monoid via the circle method Automorphic forms and related topics, AMS Special Session, Hunter	
Summation formula for the Rankin-Selberg monoid via the circle method Automorphic Forms and Representation Theory Seminar, Purdue Un	Feb 2017 niversity
Triple product L-functions and limiting forms of trace formulae Number Theory Seminar, Korea Institute for Advanced Study (KIAS)	Aug 2016 S), Korea
The Langlands Functoriality Conjecture Department Colloquium, Sookmyung Women's University, Seoul, Ko	Aug 2016 erea
Triple product L-functions and limiting forms of trace formulae Number Theory Seminar, Yonsei University, Seoul, Korea	Aug 2016

Triple product L-functions and limiting forms of trace formulae Number Theory and Algebraic Geometry Seminar, Boston College	Mar 2016
Triple product L-functions and limiting forms of trace formulae Langlands Program Seminar, CUNY Graduate Center	Mar 2016
Triple product L-functions and limiting forms of trace formulae Automorphic Forms Workshop, Wake Forest University	Mar 2016
Four-variable automorphic kernel functions Illinois Number Theory Conference, UIUC	Aug 2015
Remarks on a paper of Frenkel, Langlands and Ngo Workshop on L-functions and trace formula, Purdue University	May 2015
Descent and base change with a view towards the Artin conjecture Department Colloquium, Emory University	Jan 2015
A nonabelian trace formula ELEFANT workshop, Hausdorff Center, Bonn, Germany	July 2014
A nonabelian trace formula Special Seminar, University of Chicago	Dec 2013
An approach to nonsolvable base change for GL(2) Lie Theory Seminar, University of Minnesota	Apr 2013
An approach to nonsolvable base change for GL(2) Number Theory Seminar, University of South Carolina	Dec 2012
An approach to nonsolvable base change for GL(2) Athens and Atlanta Number Theory Day, Emory University	Oct 2012
An approach to nonsolvable base change for GL(2) Midwest Number Theory Day, UIUC	Oct 2012
An approach to nonsolvable base change for GL(2) Number Theory Seminar, Harvard University	Apr 2012
Hilbert modular forms with coefficients in intersection homology SAGG, Laval University	Mar 2012
An approach to nonsolvable base change and descent Department Colloquium, Duke University	Feb 2012
An approach to nonsolvable base change and descent Department Colloquium, University of Maryland	Jan 2012
An approach to nonsolvable base change and descent Department Colloquium, Johns Hopkins University	Jan 2012
An approach to nonsolvable base change and descent Department Colloquium, Cornell University	Nov 2011
Distinction, special cycles, and twisted relative trace fomulae Number Theory Seminar, University of Chicago	May 2011

Twisted relative endoscopy Number Theory and Algebraic Geometry Seminar, Yale University	Mar 2011
Relative endoscopy and arithmetic of Shimura varieties Number Theory Seminar, Kyoto University	Oct 2010
Relative endoscopy and arithmetic geometry of Shimura varieties (3 talks Special values of L-functions and arithmetic geometry, Miyama, Kyo	*
Elliptic descent of global orbital integrals Canadian Number Theory Association XI, Acadia University	July 2010
Twisted relative trace formulae Lie theory Seminar, Cornell University	Oct 2009
Twisted relative trace formulae with applications to unitary groups Algebraic Geometry and Number Theory Seminar, Johns Hopkins U	Feb 2009 Iniversity
Trace formulae and locally symmetric spaces Department Colloquium, Boston College	Jan 2009
Trace formulae and locally symmetric spaces Department Colloquium, McGill University	Dec 2008
Twisted relative trace formulae with applications to unitary groups Québec-Vermont Number Theory Seminar, McGill University	Dec 2008
Trace formulae and locally symmetric spaces Members Seminar, Institute for Advanced Study (IAS)	Dec 2008
Twisted relative trace formulae with applications to unitary groups Shimura Varieties and Trace Formula Seminar, IAS	Nov 2008
Twisted relative trace formulae with applications to unitary groups Number Theory and Representation Theory Seminar, University of	Nov 2008 Toronto
Twisted relative trace formulae with applications to unitary groups Number Theory Seminar, McMaster University	Nov 2008
Twisted relative trace formulae with applications to unitary groups Number Theory Seminar, University of Maryland	Sep 2008
Twisted relative trace formulae with applications to unitary groups Automorphic Forms and Number Theory Seminar, University of Min	Sep 2008 nnesota
Twisted relative trace formulae Colloquium, University of Minnesota	Sep 2008
Twisted relative trace formulae with a view towards unitary groups Locally Symmetric Spaces, Banff International Research Station	May 2008
Jacquet-Langlands transfer and distinction Number Theory Seminar, UCLA	Feb 2008
Jacquet-Langlands transfer and distinction Number Theory Seminar, Caltech	Feb 2008

Relative trace formulae with a view towards Shimura varieties	Feb 2008
Number Theory and Representation Theory Seminar, University of I	_
Hilbert modular forms with coefficients in intersection homology Algebra and Number Theory Seminar, Penn State University	Nov 2007
Hilbert modular forms with coefficients in intersection homology Algebraic Geometry Seminar, Duke University	Oct 2007
Hilbert modular forms with coefficients in intersection homology Joint Number Theory Seminar, Princeton University and IAS	Sep 2007
Hilbert modular forms with coefficients in intersection homology Algebraic Geometry Seminar, University of Chicago	May 2007
Hilbert modular forms with coefficients in intersection homology	Mar 2007
Number Theory and Representation Theory Seminar, University of	Γoronto
Hilbert modular forms with coefficients in intersection homology Automorphic Forms Seminar, University of Minnesota	Mar 2007
Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, Boston College	Feb 2007
Intersection homology theory of Hilbert modular varieties Mathematics Seminar, Johns Hopkins University	Jan 2007
Hilbert modular forms with coefficients in intersection homology Automorphic Forms and Representation Theory Seminar, Purdue Un	Nov 2006
Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, The Ohio State University	Oct 2006
Hilbert modular forms with coefficients in intersection homology Arithmetic Geometry Seminar, Humboldt University, Germany	July 2006
Hilbert modular forms with coefficients in intersection homology Computational Arithmetic Geometry, AMS Special Session, San Fran	Apr 2006 ncisco, CA
Hilbert modular forms with coefficients in intersection homology Combinatorics, Algebra and Number Theory Seminar, Iowa State Un	Apr 2006 niversity
Hilbert modular forms with coefficients in intersection homology Arithmetic Geometry and Modular Forms, AMS Special Session, San Antonio, TX	Jan 2006
Introduction to intersection homology Mathematics Seminar, Osaka University	Jan 2006
Hilbert modular forms with coefficients in intersection homology Automorphic representations, L-functions, and Periods, RIMS, Kyot	Jan 2006 o, Japan
Hilbert modular forms with coefficients in intersection homology Intersection of Arithmetic Cycles and Automorphic Forms, CRM	Dec 2005
Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, Johns Hopkins University	Nov 2005

Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, Brown University	Nov 2005
Hilbert modular forms with coefficients in intersection homology Number Theory Seminar, UCLA	Oct 2005
Intersection numbers of Hecke cycles on Hilbert modular varieties NSF Focused Research Group workshop, University of Maryland	Oct 2005
Intersection numbers of Hecke cycles on Hilbert modular varieties Number Theory Seminar, University of Rochester	Mar 2005
Intersection numbers of Hecke cycles on Hilbert modular varieties Number Theory Seminar, University of Wisconsin	Feb 2005
Classical and p-adic modular forms arising from the Borcherds exponent modular forms Joint Trivial Notions and Modular Seminar, Harvard University	nts of other Apr 2004
Systems of orthogonal polynomials arising from the modular j-function Continued Fractions, AMS Special Session, Phoenix, AZ	Jan 2004
Systems of orthogonal polynomials arising from the modular j-function Modular Curves Seminar, Harvard University	Sep 2003
Systems of orthogonal polynomials arising from the modular j-function Number Theory Seminar, University of Wisconsin	July 2003
A generalization of a theorem of Rankin and Swinnerton-Dyer on zeros forms	of modular July 2002
Number Theory Seminar, University of Wisconsin	
Partition identities and a theorem of Zagier Modular Forms Seminar, Harvard University	Nov 2001
Partition identities and a theorem of Zagier Math Table Seminar, Harvard University	Nov 2001
Partition identities and a theorem of Zagier Number Theory Seminar, University of Wisconsin	July 2001
Other Talks and Lectures	
Summation formula for spherical varieties Number Theory Seminar, Duke University	Sep 2018
An invitation to modern number theory via elliptic curves Summer Workshop in Math for female high school students, Duke U	June 2018 University
An approach to nonsolvable base change for GL(2) Graduate & Faculty Seminar, Duke University	Feb 2013
Intersection homology for Hilbert modular varieties Montreal-Toronto Meeting on Hilbert modular varieties, Fields Insti	Apr 2011 itute

Relative endoscopy and arithmetic of Shimura varieties Montreal-Toronto Meeting on Arithmetic of Shimura varieties, CRM	Sep 2010
Hilbert modular forms with coefficients in intersection homology Midwest Number Theory Conference IV, UIUC	Oct 2006
Hilbert modular forms with coefficients in intersection homology Recent Developments in the Arithmetic of Shimura Varieties and Ar Geometry, CRM, Bellaterra, Spain	July 2006 rakelov
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 j-function Additive Number Theory Conference, University of Florida	Nov 2004
Systems of orthogonal polynomials arising from the modular j-function Big Sky Conference on Discrete Math, University of Montana	Sep 2003
Professional Service	
Faculty Leader for DOmath2019 program Duke University Sur	mmer 2019
Co-Organizer of AMS session on Recent developments in Automorphic F University of Hawaii, Manoa	orms Mar 2019
Pure ARP Search Committee Duke University	Jan 2018
Faculty Leader for DOmath2017 program Duke University Sur	mmer 2017
Member of Graduate Admission Committee Department Mathematics, Duke University	2016-2017
Co-Organizer of AIM Workshop on Automorphic Kernel Functions American Institute of Mathematics Nov 30–E	Dec 4, 2015
Pure ARP Search Committee Duke University	Jan 2015
Co-Organizer of AMS Session on Automorphic Forms and Related Topic University of North Carolina at Greensboro	s Nov 2014
Co-Founder and Co-Organizer of UNC-Duke Number Theory Seminar Duke University 20	12-present

Organizer of Algebraic Geometry Seminar Duke University Fall 2012–present Pure ARP Search Committee Duke University 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

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 the Mathematical Society of Japan

Journal of Algebra and its Applications

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

The 45th KAST International Symposium: Periods of Automorphic For Participant, Korean Academy of Science and Technology (Virtual)	rms Feb 2021
Conference on Representation Theory and Algebraic Analysis 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	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 Representa Participant, Banff International Research Station	tions Aug 2008
Recent Developments in Number Theory: Selmer Groups, L -functions Deformations	, and Galois
Participant, UCLA	Mar 2008
The Tate Conjecture Participant, American Institute of Mathematics	July 2007
Automorphic Galois Representations, L-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 Phy and Ken Ono, Missoula, MT	rsics) 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,	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	May 2001
Honored by Japanese American Citizens League for work memorializing	the unjust
internment of Japanese Americans during World War II	
Missoula, MT	2000