

Krzysztof Klosin

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CURRENT POSITION

September 2020 - now	Professor - tenured City University of New York (Queens College).
September 2014 - now	Member of the Doctoral Faculty City University of New York (The Graduate Center).

PREVIOUS EMPLOYMENT

2017 - 2020	Associate Professor - tenure track City University of New York (Queens College).
2017 - 2018	Visiting Research Scholar Princeton University, Princeton, NJ.
2010 - 2017	Assistant Professor - tenure track City University of New York (Queens College).
May 2010-July 2010 and June 2011-July 2011	Guest researcher Max-Planck-Institut für Mathematik, Bonn, Germany.
2009-2010	Postdoc Université Paris 13, Paris, France.
Sept. 2009	Research in Pairs Fellow, Mathematisches Forschungsinstitut, Oberwolfach, Germany.
2008-2009	Visiting Assistant Professor, Cornell University, Ithaca, NY.
2006-2008	Burgess Assistant Professor, University of Utah, Salt Lake City, UT.

EDUCATION

2000-2006	University of Michigan , Ann Arbor, Michigan. Ph.D. in Mathematics, August 2006. Dissertation: <i>Congruences among automorphic forms on the unitary group $U(2,2)$.</i> Advisor: Prof. Christopher Skinner
1999-2000	University of Virginia , Charlottesville, VA. Graduate student in mathematics.
1994-1999	University of A. Mickiewicz , Poznan, Poland. M.Sc. in Physics, June 1999, with honors, awarded medal <i>Primus inter pares</i> , Dissertation: <i>The Wheeler-DeWitt Quantum Field</i> , Advisor: Prof. Zbigniew Jacyna-Onyszkiewicz.

EDUCATION (continued)

1994-1999	University of Economics , Poznan, Poland. M.A. in Economics, February 1999, with honors, Dissertation: <i>Mathematical aspects of exchange rate</i> , Advisor: Prof. Tomasz Rynarzewski.
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CITIZENSHIP

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RESEARCH

Current Interests	Algebraic Number Theory, Representation Theory, Arithmetic Algebraic Geometry. More precisely: modularity of residually reducible Galois representations, the Paramodular Conjecture, Bloch-Kato conjecture for modular forms, congruences among automorphic forms on $GL(2)$ and higher-rank groups, the Langlands program.
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GRANTS, HONORS AND AWARDS

2023-2028	Travel Support for Mathematicians - MP-TSM-00002098 Source: Simons Foundation Modularity of Galois representations in low weights, \$42000.00.
2024-2025	PSC-CUNY Research Award TRADB-55-45 P-adic modularity of Picard curves via pseudo-deformations, \$6000.00.
2018-2023	Collaboration Grant for Mathematicians - 578231 Source: Simons Foundation Modularity of Galois representations and the Paramodular Conjecture, \$42000.00.
2022-2023	PSC-CUNY Research Award TRADB-53-22 Limits of Galois representations and modularity of non-cohomological Galois representations , \$6000.00.
2021-2022	PSC-CUNY Research Award TRADB-52-92 Beyond the Paramodular Conjecture - modularity of abelian 3-folds , \$6000.00.
2019-2020	PSC-CUNY Research Award TRADB-50-66 The Paramodular Conjecture for abelian surfaces with a rational cycle, \$6000.00.
2018-2019	PSC-CUNY Research Award TRADB-49-171 Limit modularity of abelian surfaces and the Paramodular Conjecture, \$6000.00.
2016-2018	NSA Young Investigator Grant - 140908 Source: National Security Agency Residually reducible Galois representations and p-adic properties of automorphic lifts, \$40,000.00.
2017-2018	PSC-CUNY Research Award TRADA-48-88 Modularity of abelian surfaces in the ordinary case, \$3490.00.

GRANTS, HONORS AND AWARDS (continued)	
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2015-2020	Collaboration Grant for Mathematicians - 354890 Source: Simons Foundation Modularity theorems for Galois representations and congruences, \$35000.00 (used only two years of funding due to obtaining an NSA grant).
2016-2017	PSC-CUNY Research Award TRADA-47-160 Deformations of Galois representations and the Paramodularity Conjecture, \$3499.00.
2016	President's Excellence in Teaching Award Queens College, CUNY.
2015-2016	PSC-CUNY Research Award TRADA-46-58 P-adic families of Maass forms on the unitary groups, \$3499.00.
2014-2015	PSC-CUNY Research Award TRADA-45-58 Modularity of mod p reducible Galois representations and their ideals of reducibility, \$2990.00.
2013-2014	PSC-CUNY Research Award TRADA-44-183 Congruences among p -adic families of Siegel modular forms, \$2449.10.
2012-2013	PSC-CUNY Research Award TRADA-43-143 Deformations of residually reducible Galois representations, \$2210.00.
2011	MPIM Fellowship Max-Planck-Institut für Mathematik, Bonn, Germany.
2010	MPIM Fellowship Max-Planck-Institut für Mathematik, Bonn, Germany.
2009	Research in Pairs Fellowship Mathematisches Forschungsinstitut, Oberwolfach, Germany.
2008	Outstanding Instructor Award University of Utah, Salt Lake City, UT.
2002	Gabriel and Sophie Rainich Scholarship, University of Michigan, Ann Arbor, MI.
1999	Medal "Primus Inter Pares" for outstanding academic achievements, University of A. Mickiewicz, Poznan, Poland.

PH.D. STUDENTS

2013-2016	<p>Joe Kramer-Miller, Ph.D. student at the Graduate Center of CUNY. Graduated in May 2016. Thesis: <i>p-adic L-functions and the Geometry of Hida Families</i>. Received the 3-year Heilbronn Postdoctoral Fellowship at University College, London, UK followed by a postdoc at University of California, Irvine (2018-2021). Currently a tenure-track Assistant Professor at Lehigh University.</p>
2014-2020	<p>Lawrence An Hoa Vu, Ph.D. student at the Graduate Center of CUNY. Thesis: <i>Hermitian Maass lift for general level</i></p>
2018-2024	<p>Xiaoyu (Coco) Huang, Ph.D. student at the Graduate Center of CUNY. Thesis: <i>On deformation rings of residual Galois representations with three Jordan-Holder factors and modularity</i> Received the 3-year postdoctoral position at Temple University.</p>
2015-2025 (expected)	<p>Geoffrey Akers, Ph.D. student at the Graduate Center of CUNY.</p>

RESEARCH PAPERS

2023	<p>R=T theorems for weight one modular forms joint with T. Berger), Trans. Amer. Math. Soc., 376(2023) no.11, 8095–8128.</p>
2021	<p>Irreducibility of limits of Galois representations attached to p-adic Siegel modular forms, joint with T. Berger Res. Number Theory, 7(3):Paper No. 41, 25, (2021).</p>
2020r	<p>Deformations of Saito-Kurokawa type and the Paramodular Conjecture, joint with T. Berger with appendix by C. Poor, J. Shurman and D. Yuen. Amer. J. Math. 142 (2020), no. 6, 1821-1876.</p>
2020	<p>Galois extensions and a conjecture of Ogg, joint with M. Papikian Proc. Amer. Math. Soc. 148 (2020), 3821-3834</p>
2020	<p>Congruence primes for automorphic forms on unitary groups and applications to the arithmetic of Ikeda lifts, joint with J. Brown Kyoto J. Math. 60 (2020), no. 1, 179-217.</p>
2019	<p>Modularity of residual Galois extensions and the Eisenstein ideal, joint with T. Berger. Trans. Amer. Math. Soc. 372 (2019), no. 11, 8043-8065.</p>
2019	<p>A p-adic Hermitian Maass lift, joint with T. Berger Glasg. Math. J. 61 (2019), no. 1, 85–114.</p>

RESEARCH PAPERS (continued)	
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| 2018 | On Ribet's isogeny for $J_0(65)$, joint with M. Papikian
Proc. Amer. Math. Soc. 146 (2018), no. 8, 3307-3320. |
| 2017 | On the action of the U_p operator on the local (at p) representation attached to congruence level Siegel modular forms , joint with J. Brown
Ramanujan J. 44 (2017), no. 3, 597-615. |
| 2015 | On lifting and modularity of reducible residual Galois representations over imaginary quadratic fields , joint with T. Berger
Int. Math. Res. Not. IMRN (2015), no. 20, 10525-10562. |
| 2015 | Maass spaces on $U(2,2)$ and the Bloch-Kato conjecture for the adjoint motive of a modular form
J. Math. Soc. Japan, 67 (2015), no. 2, 797-860. |
| 2014 | A note on Hecke eigenvalues of hermitian Siegel Eisenstein series
Ramanujan J. 35 (2014), no. 2, 287-298 |
| 2014 | On higher congruences between automorphic forms
joint with T. Berger and K. Kramer
Math. Res. Lett., 21 (2014), no. 1, 71-82. |
| 2013 | On deformation rings of residually reducible Galois representations and $R=T$ theorems joint with T. Berger
Math. Ann., 355 (2013), no. 2, 481-518 |
| 2013 | Yoshida lifts and the Bloch-Kato conjecture for the convolution L-function joint with M. Agarwal
J. Number Theory, 133 (2013), 2496-2537 |
| 2013 | On Ihara's lemma for degree one and two cohomology over imaginary quadratic fields
Int. J. Number Theory, 09 (2013), 1541-1561 |
| 2011 | An $R=T$ theorem for imaginary quadratic fields joint with T. Berger,
Math. Ann., 349 (2011), no. 3, 675-703 |
| 2009 | Deformation problem for Galois representations over imaginary quadratic fields joint with T. Berger
J. Inst. Math. Jussieu, (2009) 8(4), 669-692 |
| 2009 | Congruences among modular forms on $U(2,2)$ and the Bloch-Kato conjecture
Ann. Inst. Fourier (Grenoble), 59 no. 1 (2009), p. 81-166 |

RESEARCH PAPERS (continued)

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| 2008 | Ihara's lemma for imaginary quadratic fields
J. Number Theory, 128 (2008), 2251-2262 |
| 2006 | Congruences among automorphic forms on the unitary group $U(2,2)$
Thesis, University of Michigan, Ann Arbor, MI.
available at http://www.vnulib.edu.vn:8000/dspace/handle/123456789/1461 |

EXPOSITORY PAPERS

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| 2013 | On the norms of p-stabilized elliptic newforms , (with Jim Brown with appendix by Keith Conrad). |
| 2006 | Some local (at p) properties of residual Galois representations
available online at http://math.stanford.edu/~conrad/vigregroup/ |
| 2005 | On the reflex norm
available online at http://math.stanford.edu/~conrad/vigregroup/ |
| 2004 | Finiteness of the Mordell-Weil group
available online at http://math.stanford.edu/~conrad/vigregroup/ |
| 2003 | Applications of the finiteness of the Mordell-Weil group
available online at http://math.stanford.edu/~conrad/vigregroup/ |
| 2002 | Variations of Hodge structures
joint with J. Brown, K. Eisentrager, J. Pineiro, M. Trifkovic, O. Watson
Arizona Winter School, Tucson, AZ.
available at www.math.utah.edu/~klosin |

INVITED TALKS

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| November 9, 2023 | Colloquium (Oliver Club) , Cornell University (1 hour address) |
| September 9, 2023 | AMS Fall Eastern Sectional Meeting, Special session on Homological Aspects of p-adic Groups and Automorphic Representations , University at Buffalo (1 hour address) |
| November 11, 2022 | Lehigh Algebraic/Arithmetic Geometry Seminar , Lehigh University (1 hour address) |
| November 3, 2022 | Joint Columbia-CUNY-NYU Number Theory Seminar , CUNY Graduate Center (1 hour address) |

INVITED TALKS	
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October 1, 2022	AMS Fall Eastern Sectional Meeting, Special session on Iwasawa Theory , University of Massachusetts-Amherst (20 minute address)
May 18, 2022	Workshop on Eisenstein Series , L-functions, and arithmetic, University of Pittsburgh (1 hour address)
November 4, 2021	Philadelphia Area Number Theory Seminar , Bryn Mawr College (1 hour address).
May 13, 2020	Number Theory Seminar , University of California, Irvine (1 hour address)
September 25, 2019	Topology, Geometry and Physics Seminar , CUNY Graduate Center, New York (1 hour address).
August 8, 2019	Number Theory Seminar , University of A. Mickiewicz, Poznan, Poland (1 hour address)
July 18, 2019	Conference on p-adic families of automorphic forms and Galois representations , University of Sheffield, UK (1 hour address).
April 14, 2019	AMS Sectional Meeting , University of Connecticut, Hartford, CT (20 minute address).
August 28, 2018	Arithmetic Algebraic Geometry Conference (plenary talk) , Poznan, Poland (1 hour address)
April 26, 2018	Algebra and Number Theory Seminar , Pennsylvania State University (1 hour address)
December 6, 2017	Philadelphia Area Number Theory Seminar , Bryn Mawr College (1 hour address)
August 3, 2017	Number Theory Seminar , University of Sheffield, UK (1 hour address)
July 20, 2017	Colloquium , University of A. Mickiewicz, Poznan, Poland (1 hour address)
May 4, 2017	Algebra and Number Theory Seminar , Pennsylvania State University (1 hour address)
July 21, 2016	Number Theory Seminar , University of Sheffield, UK (1 hour address)
July 16, 2014	Workshop on Bianchi and Siegel modular forms , Sheffield, UK (1 hour address)
March 6, 2014	Algebra and Number Theory Seminar , Pennsylvania State University. (1 hour address)
November 5, 2013	Number Theory Seminar , University of North Carolina at Chapel Hill. (1 hour address)

INVITED TALKS (Continued)	
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July 26, 2013	Number Theory Oberseminar , Universitat Heidelberg, Germany. (1 hour address)
July 25, 2013	Mathematics Department Colloquium , Universitat Heidelberg, Germany. (1 hour address)
January 14, 2013	Number Theory Seminar , University of California San Diego. (1 hour address)
October 25, 2012	Automorphic forms and representation theory seminar , Purdue University, West Lafayette, IN. (1 hour address)
July 25, 2012	K-theory and arithmetic - conference in honour of J.Hurrelbrink , Banach Center, Bedlewo, Poland. (1 hour address)
January 17, 2012	Erwin Schroedinger Institute Programme on Automorphic Forms: Arithmetic and Geometry , Vienna, Austria. (1 hour address)
December 1, 2011	Number Theory Seminar , Clemson University, Clemson, SC. (1 hour address)
July 22, 2011	Number Theory Lunch Seminar , Max-Planck-Institut für Mathematik, Bonn, Germany. (1 hour address)
June 29, 2011	Number Theory Seminar , University of Sheffield, UK. (1 hour address)
January 20, 2011	Departmental Colloquium , University of Szczecin, Szczecin, Poland. (1.5 hour address)
January 7, 2011	Seminaires de l'equipe d'Arithmetique et Geometrie Algebrique, Université Paris 13 , Paris, France. (1 hour address)
December 22, 2010	Departmental Colloquium , University of A. Mickiewicz, Poznan, Poland. (1 hour address)
November 19, 2010	Collaborative Number Theory Seminar at the CUNY Graduate Center , City University of New York, NY. (1.5 hour address)
November 2, 2010	Number Theory Seminar , Northwestern University, Evanston, IL. (1 hour address)
June 30, 2010	Number Theory Lunch Seminar , Max-Planck-Institut für Mathematik, Bonn, Germany. (1 hour address)

INVITED TALKS (Continued)	
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June 1, 2010	Oberseminar (Algebra, Geometrie und Zahlentheorie), Universität Duisburg-Essen, Germany. (1 hour address)
May 31, 2010	Special Number Theory Seminar, Universität Duisburg-Essen, Germany. (1 hour address)
March 9, 2010	Number Theory Seminar, DPMMS, University of Cambridge, UK. (1 hour address)
February 22, 2010	Seminaire Arithmetique et Geometrie Algebrique, Universite Louis Pasteur Strasbourg, France. (1 hour address)
November 6, 2009	Seminaires de l'equipe d'Arithmetique et Geometrie Algebrique, Université Paris 13, Paris, France. (1 hour address)
October 26, 2009	Seminaire de theorie des nombres de Chevaleret, Université Paris 6 and 7, Paris, France. (1 hour address)
July 1, 2009	Colloquium, University of A. Mickiewicz, Poznan, Poland. (1 hour address)
February 13, 2009	Colloquium, City University of New York (Queens College), New York, NY. (1 hour address)
June 17, 2008	Colloquium, University of A. Mickiewicz, Poznan, Poland. (1 hour address)
January 7, 2008	The Annual Joint Meeting of the AMS, Special session on Modular forms and modularity, San Diego, CA. (20 minute address)
September 7, 2007	International Conference on Arithmetic Algebraic Geometry, Poznan, Poland. (1 hour address)
July 31, 2007	The First Joint Meeting between the AMS and the Polish Mathematical Society, Special session on Arithmetic Algebraic Geometry, Warsaw, Poland. (40 minute address)
June 29, 2007	Number theory seminar, University of Paris 13, Paris, France. (1 hour address)
April 21, 2007	2007 Spring Western Section Meeting of the AMS, special session on Number Theory in the Southwest, Tucson, AZ. (20-minute address)
February 7, 2006	Number theory seminar, Johns Hopkins University, Baltimore, MD. (1 hour address)

SELECTED OTHER TALKS AND PRESENTATIONS	
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March 6-10, 2019	33rd Automorphic Forms Workshop , Duquesne University, Pittsburgh, PA.
June 2, 2018	The Paramodular Conjecture for abelian surfaces with rational torsion , Connecticut Summer School in Number Theory Conference, University of Connecticut (20 minute address)
March 20, 2018	The Paramodular Conjecture for abelian surfaces with rational torsion , 32nd Automorphic forms Workshop, Tufts University, March 19-22, 2018.
August 19, 2016	Deformations of Saito-Kurokawa type , 2nd International Conference on Galois Representations and Automorphic Forms, Banach Center, Bedlewo, Poland.
March 8, 2016	Congruence primes for automorphic forms on unitary groups and applications to the arithmetic of Ikeda lifts , 30th automorphic forms workshop, Wake Forest University, Winston-Salem, NC.
March 2, 2015	The p-adic Maass lift , 29th automorphic forms workshop, Ann Arbor, MI.
July 9, 2014	Congruence modules and modularity of residually reducible Galois representations , Second EU-US conference of automorphic forms and related topics, Bristol, UK.
May 12, 2014	P-adic families of automorphic forms on $\mathrm{GSp}(4)$, 28th automorphic forms workshop, Moab, UT.
December 7, 2012	Congruences among hermitian modular forms and bounds on Selmer groups , Collaborative Number Theory Seminar, City University of New York (Graduate Center), New York, NY.
November 13, 2012	Galois representations and modular forms , Colloquium, City University of New York (Bronx Community College), Bronx, NY.
August 13, 2012	Ihara's lemma for imaginary quadratic fields , Number Theory Seminar, University of Sheffield, UK.
August 8, 2012	Congruences among automorphic forms on symplectic and unitary groups and the Bloch-Kato conjecture Galois representations and modular forms , Building Bridges, First EU-US conference on automorphic forms and related topics, Aachen, Germany.
February 15, 2012	Galois representations (an introduction) , Colloquium, City University of New York (Queens College), Queens, NY.
December 3, 2011	Modularity of Galois representations over imaginary quadratic fields , Palmetto Number Theory Series XVII conference, Clemson University, Clemson, SC.

SELECTED OTHER TALKS AND PRESENTATIONS (Continued)	
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August 17, 2011	Modularity of residually reducible Galois representations , plenary talk at the international conference “Galois representations and automorphic forms”, Banach Center, Institute of Mathematics of the Polish Academy of Sciences (PAN), Bedlewo, Poland.
November 4, 2010	Prime numbers and the secrets of factorization , talk for Queens College XiSigma members, City University of New York (Queens College), Queens, NY.
November 2, 2010	Introduction to modularity theorems , talk for graduate students, Northwestern University, Evanston, IL.
October 5, 2010	Modular forms and Galois representations , Colloquium, City University of New York (Queens College), Queens, NY.
December 3, 2008	Modular forms and arithmetic , Number Theory Seminar, Cornell University, Ithaca, NY.
September 10 and 17, 2008	Congruences among automorphic forms and the Bloch-Kato conjecture , Number Theory Seminar, Cornell University, Ithaca, NY.
July 3, 2007	Congruences among automorphic forms on unitary groups and the Bloch-Kato conjecture , 25th Journées Arithmétiques, Edinburgh, UK.
September 5, 12 and 19, 2006	Modular forms on $U(2,2)$ and the Bloch-Kato conjecture , Number Theory Seminar, University of Utah, Salt Lake City, UT.
March 13, 2006	Some local (at p) properties of residual Galois representations , Learning Seminar in Number Theory, University of Michigan, Ann Arbor, MI.
February 20, 2006	CAP representations , Student Number Theory Seminar, University of Michigan, Ann Arbor, MI.
March 7, 2005	Classical and adelic Eisenstein series , Seminar on Spectral Decomposition and Eisenstein series, University of Michigan, Ann Arbor, MI.
February 21, 2005	Modular Galois representations , Student Number Theory Seminar, University of Michigan, Ann Arbor, MI.
February 15, 2005	On the reflex norm , VIGRE Working Group on Number Theory, University of Michigan, Ann Arbor, MI.
February 5, 2005	Midwest Number Theory Conference for Graduate Students and Recent Ph.D.s , University of Illinois, Urbana-Champaign, IL
March 18, 2002	Variations of Hodge structures: Some examples , Arizona Winter School, Southwestern Center for Arithmetic Algebraic Geometry, University of Arizona, Tucson, AZ.

ORGANIZED CONFERENCES AND WORKSHOPS	
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August 20-26, 2023	Third Conference on Automorphic forms and Galois representations , Banach Center, Institute of Mathematics of the Polish Academy of Sciences (PAN), Poznan, Poland; co-organized with Grzegorz Banaszak (Poznan, Poland) and Tobias Berger (Sheffield, UK)
May 6-7, 2017	Special Session on Automorphic Forms and Arithmetic at the AMS Spring Eastern Sectional Meeting , Hunter College, CUNY, New York, NY co-organized with J. Brown (Clemson Univ.)
August 15-20, 2016	Second Conference on Automorphic forms and Galois representations , Banach Center, Institute of Mathematics of the Polish Academy of Sciences (PAN), Poznan, Poland; co-organized with Grzegorz Banaszak (Poznan, Poland) and Tobias Berger (Sheffield, UK)
August 15-19, 2011	Automorphic forms and Galois representations , International Conference on the recent progress in number theory, Banach Center, Institute of Mathematics of the Polish Academy of Sciences (PAN), Poznan, Poland; co-organized with Grzegorz Banaszak (Poznan, Poland) and Tobias Berger (Sheffield, UK)

SERVICE	
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2023-now	Chair of the Committee on Elementary Courses , Queens Colleger (CUNY).
2022-now	Organizer of the Queens College Mathematical Discoveries Series , Queens College (CUNY).
2023-now	Co-Organizer of the Graduate Center Arithmetic Geometry Seminar , Graduate Center (CUNY).
2018-now	Member of the Algebra Committee , The Graduate Center (CUNY).
2017-2023	Math department representative to the Graduate Council , The Graduate Center (CUNY).
2013-now	Referee for numerous mathematical journals .
2013-now	Reviewer for the Mathematical Reviews , American Mathematical Society.
2013-2020	Co-organizer of the Collaborative Number Theory Seminar , Graduate Center (CUNY).
2013-now	Member of the Masters Oral Exam Committee (over 40 times), Queens College (CUNY)
2012-now	Member of the calculus committee , Queens College (CUNY), Queens, NY.

SERVICE (Continued)	
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2015	Chair of the Algebra Qualifying Exam Committee , The Graduate Center (CUNY).
2015	Member of the Committee to coordinate the move of the Math Department to Kiely Hall , Queens College (CUNY).
2015-2016	Member of the Math Department's Self-Study Committee on Research (related to the Middle States Accreditation process).
2015-2016	Member of the Math Department's Self-Study Committee on Curriculum Development (related to the Middle States Accreditation process).
2015-2017	Organizer of the two-times-a-week Departmental Tea Time (paid for by Grant #354890Klosin from the Simons Foundation).
2014-now	Reviewer for the Zentralblatt Math , Springer, Germany.
2014-2017	Organizer of the Learning Seminar on Rigid Analytic Geometry .
2014-2017	Mathematics Department Delegate to the Queens College Academic Senate .
2014	Member of the Algebra Qualifying Exam Committee , The Graduate Center (CUNY).
2012-2016	Organizer of the Mathematics Department Colloquium , Queens College (CUNY), Queens, NY.
2012-2014	Supervisor of a high school student project in Number Theory as part of the Intel Science Talent Search , Bronx High School of Science, Bronx, NY.
2006-2008	Co-organizer of The Learning Seminar in Number Theory for faculty and graduate students , University of Utah, Salt Lake City, UT. Topics covered: Hida's construction of Galois representations, Iwasawa theory, Fontaine's book on p-adic Galois representations.
2007-2008	Reading course supervisor , Algebraic Number Theory and Class Field Theory for a graduate student, University of Utah, Salt Lake City, UT.
2007-2008	Organizer of a Number Theory Seminar , University of Utah, Salt Lake City, UT.
2003-2006	Co-organizer of a Student Number Theory Seminar , University of Michigan, Ann Arbor, MI.
2004	Organizer of the Iwasawa Theory Seminar , University of Michigan, Ann Arbor, MI.