

Krzysztof Klosin

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CURRENT POSITION

September 2017 - now **Associate 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 - 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: *Congruences among automorphic forms on the unitary group $U(2,2)$.*
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 *Primus inter pares*,
Dissertation: *The Wheeler-DeWitt Quantum Field*,
Advisor: Prof. Zbigniew Jacyna-Onyszkiewicz.

EDUCATION (continued)

1994-1999

University of Economics, Poznan, Poland.
M.A. in Economics, February 1999, with honors,
Dissertation: *Mathematical aspects of exchange rate*,
Advisor: Prof. Tomasz Rynarzewski.

CITIZENSHIP

US

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.

GRANTS, HONORS AND AWARDS

2018-2023

Collaboration Grant for Mathematicians - 578231

Source: Simons Foundation

Modularity of Galois representations and the Paramodular Conjecture, \$42000.00.

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.

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.

GRANTS, HONORS AND AWARDS (continued)	
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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	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. Currently (2018-2021) a postdoc at University of California, Irvine.
2014-2019	Lawrence An Hoa Vu , Ph.D. student at the Graduate Center of CUNY. Graduated in September 2019. Thesis: <i>Hermitian Maass lift for general level</i> (to appear in J. Number Theory).
2015-2021 (expected)	Geoffrey Akers , Ph.D. student at the Graduate Center of CUNY.

RESEARCH PAPERS	
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in preparation	Irreducibility of limits of Galois representations attached to p-adic Siegel modular forms , joint with T. Berger.
submitted	Galois extensions and a conjecture of Ogg , joint with M. Papikian.
to appear	Deformations of Saito-Kurokawa type and the Paramodular Conjecture , joint with T. Berger with appendix by C. Poor, J. Shurman and D. Yuen. American Journal of Mathematics.
to appear	Congruence primes for automorphic forms on unitary groups and applications to the arithmetic of Ikeda lifts , joint with J. Brown Kyoto Journal of Mathematics.
2019	Modularity of residual Galois extensions and the Eisenstein ideal , joint with T. Berger. Transactions of the American Mathematical Society 372 (2019), no. 11, 8043-8065.
2018	On Ribet's isogeny for $J_0(65)$, joint with M. Papikian Proceedings of the American Mathematical Society 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 Journal 44 (2017), no. 3, 597-615.
2015	On lifting and modularity of reducible residual Galois representations over imaginary quadratic fields , joint with T. Berger International Mathematics Research Notices 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 Journal of the Mathematical Society of Japan, 67 (2015), no. 2, 797-860.
2014	A note on Hecke eigenvalues of hermitian Siegel Eisenstein series Ramanujan Journal 35 (2014), no. 2, 287-298
2014	On higher congruences between automorphic forms joint with T. Berger and K. Kramer Mathematical Research Letters, 21 (2014), no. 1, 71-82.
2013	On deformation rings of residually reducible Galois representations and $R=T$ theorems joint with T. Berger Mathematische Annalen, 355 (2013), no. 2, 481-518
2013	Yoshida lifts and the Bloch-Kato conjecture for the convolution L-function joint with M. Agarwal Journal of Number Theory, 133 (2013), 2496-2537

RESEARCH PAPERS (continued)	
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|-------------|---|
| 2013 | On Ihara's lemma for degree one and two cohomology over imaginary quadratic fields
International Journal of Number Theory, 09 (2013), 1541-1561 |
| 2011 | An $R=T$ theorem for imaginary quadratic fields joint with T. Berger,
Mathematische Annalen, 349 (2011), no. 3, 675-703 |
| 2009 | Deformation problem for Galois representations over imaginary quadratic fields joint with T. Berger
Journal de l'Institut de Math. de Jussieu, (2009) 8(4), 669-692 |
| 2009 | Congruences among modular forms on $U(2,2)$ and the Bloch-Kato conjecture
Annales de l'institut Fourier, 59 no. 1 (2009), p. 81-166 |
| 2008 | Ihara's lemma for imaginary quadratic fields
Journal of 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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September 25, 2019	Topology, Geometry and Physics Seminar , CUNY Graduate Center, New York, NY (1.5 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)
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)

INVITED TALKS (Continued)	
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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)
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)

INVITED TALKS (Continued)	
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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.

SELECTED OTHER TALKS AND PRESENTATIONS (Continued)	
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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.
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.

SELECTED OTHER TALKS AND PRESENTATIONS (Continued)	
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| 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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| 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) |

INVITED CONFERENCES AND WORKSHOPS	
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December 1-5, 2014	Automorphic forms, Shimura varieties, Galois representations and L-functions , conference dedicated to Michael Harris, MSRI, Berkeley.
July 14-16, 2014	Workshop on Bianchi and Siegel modular forms , Sheffield, UK.
June 13-17, 2009	Formes modulaires, Théorie de Hodge p-adique et Applications , Roscoff, France.
July 7-12, 2008	Representations p-adiques de groupes p-adiques , Institut de Mathématiques de Jussieu, Paris, France.
March 24-29, 2008	Selmer groups, L-functions, and Galois deformations , UCLA, Los Angeles, CA.
January 6-8, 2008	Joint Mathematics Meetings , San Diego, CA.
September 4-8, 2007	International Conference on Arithmetic Algebraic Geometry , University of A. Mickiewicz, Poznan, Poland.
July 31-August 3, 2007	The First Joint Meeting of the AMS and the Polish Mathematical Society , Warsaw, Poland.
July 9-22, 2007	Summer School on Serre's modularity conjecture , CIRM, Luminy, France.
April 21-22, 2007	Spring Western Section Meeting of the AMS , Special session on Number Theory in the Southwest, University of Arizona, Tucson, AZ.
November 5-8, 2003	AIM Workshop on the Birch and Swinerton-Dyer conjecture , Princeton, NJ.
July 2-6, 2007	25th Journées Arithmétiques , Edinburgh, UK.
January 5-8, 2006	Joint Mathematics Meeting , San Antonio, TX.
February 5-6, 2005	Midwest Number Theory Conference for Graduate Students and Recent Ph.D.'s , University of Illinois, Urbana-Champaign, IL.
Summer 2004	Iwasawa Theory seminar , University of Michigan, Ann Arbor, MI.
July 2002	Park City Mathematical Institute (Automorphic representations) , Park City, UT.
March 2002	Arizona Winter School (Periods) , Southwestern Center for Arithmetic Algebraic Geometry, participant of a project on <i>Variations of Hodge structures</i> under the direction of Johan DeJong, Tucson, AZ.

SERVICE	
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Fall 2019	Organizer of a learning seminar Introduction to Modular Forms , The Graduate Center (CUNY).
2018-now	Member of the Algebra Committee , The Graduate Center (CUNY).
2017-now	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-now	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.
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).

SERVICE (Continued)	
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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.

TEACHING	
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Spring 2020	Topics course: Modular forms and arithmetic , Primary Lecturer, Graduate Center CUNY.
Spring 2020	Foundations of Geometry (Math 618) , Queens College CUNY.
Fall 2019 and Spring 2020	Algebraic Structures (Math 333) , Primary Lecturer, Queens College CUNY.
Fall 2019	Topics in Topology and Complex Analysis (Math 790) - Reading Course , Queens College CUNY.
Fall 2019	Topics Course: Fields and Galois Theory (Math 650) , Primary Lecturer, Queens College CUNY.
Summer 2019	Studies in Mathematics (Math 550) - Topics in arithmetic (a new course at Queens College aimed mostly at current high school teachers seeking a Masters degree - the main focus of the course was a thorough introduction to the theory and applications of continued fractions) course designer and primary lecturer, Queens College, Queens, NY.
Spring 2019	Graduate Algebra I , Primary Lecturer, Graduate Center of CUNY.
Spring 2019	Discrete Mathematics (Math 120) , Primary Lecturer, Queens College CUNY.

TEACHING (Continued)	
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Fall 2018	Logic and Set Theory (Math 509) , Primary Lecturer, Queens College (CUNY), Queens, NY.
Fall 2016 and 2014	Topology (Math 703) , Primary Lecturer, Queens College (CUNY), Queens, NY.
Fall 2016 and Spring 2014	Studies in Mathematics (Math 650) - Introduction to elliptic curves , Primary Lecturer, Queens College (CUNY), Queens, NY.
Fall 2016 and Spring 2017 and Fall 2018	Algebraic Structures (Math 333) , Primary Lecturer, Queens College (CUNY), Queens, NY.
Spring 2016	Topics in Real Analysis (Math 650) - Reading Course , Queens College (CUNY), Queens, NY.
Spring 2016	Modern Abstract Algebra (Math 702) , Primary Lecturer, Queens College (CUNY), Queens, NY.
Spring 2015 and 2016	Algebraic Number Theory (Math 615) , Primary Lecturer, Queens College (CUNY), Queens, NY.
Fall 2015	Algebraic Number Theory (Reading Course) , Supervisor for student James Diotte, the Graduate Center (CUNY).
Fall 2015	Differential Geometry (Math 631) , Primary Lecturer, Queens College (CUNY), Queens, NY.
Spring 2015	Algebraic Structures (Abstract Algebra -Math 613) , Primary Lecturer, Queens College (CUNY), Queens, NY.
Summer 2014 - 2018	Studies in Mathematics (Math 550) - Invitation to modern mathematics (a new course at Queens College aimed mostly at current high school teachers seeking a Masters degree whose goal was to familiarize them with recent discoveries in mathematics) course designer and primary lecturer, Queens College, Queens, NY.
Fall 2013/Spring 2014	Independent Reading Course (Congruences among automorphic forms) , Supervisor, Graduate Center (CUNY), New York, NY.
Fall 2013	Graduate Algebra I , Primary Lecturer, Graduate Center (CUNY), New York, NY.
Spring 2013	Studies in Mathematics (Math 650) - Algebraic Number Theory , Primary Lecturer, Queens College (CUNY), Queens, NY.
Fall 2012	Studies in Mathematics (Math 550) - The Riemann zeta function and beyond (experimental course, using Adobe Connect broadcast live to other CUNY campuses), course designer and primary lecturer, Queens College (CUNY), Queens, NY.

TEACHING (Continued)	
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Summer 2012-2016	Games and Puzzles (Math 555) , Primary lecturer, Queens College (CUNY), Queens, NY.
Summer 2012 and Summer 2013	Problem solving (Math 505) , Primary lecturer, Queens College (CUNY), Queens, NY.
2011-2016	Calculus 3 (Math 143) , Primary lecturer, Queens College (CUNY), Queens, NY.
Spring 2011	Calculus with Applications to the Social Sciences I (Math 131) , Primary lecturer, Queens College (CUNY), Queens, NY.
Fall 2010	Calculus 2 (Math 142) , Primary lecturer, Queens College (CUNY), Queens, NY.
Spring 2009	Honors Seminar - Topics in Modern Mathematics , Primary lecturer, Cornell University, Ithaca, NY.
Spring 2009	Multivariable calculus , Primary lecturer, Cornell University, Ithaca, NY.
Fall 2008	Linear Algebra (200-level) , Primary lecturer, Cornell University, Ithaca, NY.
Fall 2008	Advanced Linear Algebra (400-level) , Primary lecturer, Cornell University, Ithaca, NY.
Spring 2008	Cryptography and Codes (graduate course) , Primary lecturer, University of Utah, Salt Lake City, UT.
Spring 2008	Undergraduate Seminar (for talented undergraduate students) , Organizer and supervisor, topic: The Riemann Zeta function and arithmetic, University of Utah, Salt Lake City, UT.
Fall 2006 - Spring 2007	Calculus I and II , Primary lecturer, University of Utah, Salt Lake City, UT.
2000-2006	Calculus I and II , Graduate Student Instructor, Primary lecturer (total of 10 semesters), University of Michigan, Ann Arbor, MI.
1999-2000	Calculus II , Teaching Assistant, University of Virginia, Charlottesville, VA.