

Patrick Milano

ADDRESS: Department of Mathematical Sciences
Binghamton University
PO Box 6000
Binghamton, New York 13902-6000
PHONE: (570)-439-2697
E-MAIL: milano@math.binghamton.edu
WEB SITE: <http://www2.math.binghamton.edu/p/people/grads/milano/start>

INTERESTS

Algebraic geometry, algebraic number theory.

EDUCATION

IN PROGRESS Ph.D., Mathematics, State University of New York at Binghamton
MAY 2013 M.A., Mathematics, State University of New York at Binghamton
MAY 2011 B.S., Mathematics, Mansfield University of Pennsylvania

Selected Courses Taken

SPRING 2015 Algebraic Geometry
SPRING 2015 Riemannian Geometry
FALL 2014 Homological Algebra
FALL 2014 Linear Representations of Finite Groups
SPRING 2014 Finite p -Groups
SPRING 2014 Characteristic Classes
FALL 2013 Advanced Topics in Group Theory
FALL 2013 Algebraic Number Theory

Selected Books Read

M. F. Atiyah and I. G. MacDonald, *Introduction to Commutative Algebra*
J. W. S. Cassels and A. Fröhlich, *Algebraic Number Theory* (in progress)
Robin Hartshorne, *Algebraic Geometry* (in progress)
Neal Koblitz, *p -adic Numbers, p -adic Analysis, and Zeta-Functions*
Serge Lang, *Introduction to Arakelov Theory* (in progress)
Jean-Pierre Serre, *A Course in Arithmetic*

HONORS

SPRING 2011 Completed the Honors Program
SPRING 2011 One semester on the President's List
SPRING 2010 Award for Academic Excellence in Mathematics and Computer Science
SPRING 2009 Award for Academic Excellence in Mathematics and Computer Science
SPRING 2008 Award for Academic Excellence in Mathematics and Computer Science
FALL 2007-FALL 2010 Seven semesters on the Dean's List

PRESENTATIONS

- APRIL 2015 *Convolution structures and ghost-spaces (part 2 of the admission to candidacy exam)*, Arithmetic Seminar, Binghamton University
- APRIL 2015 *Effectivity of Arakelov divisors (part 1 of the admission to candidacy exam)*, Arithmetic Seminar, Binghamton University
- FEBRUARY 2015 *Factorization in rings of integers of quadratic fields*, Math Graduate Student Seminar, Binghamton University
- JANUARY 2015 *Introduction to elliptic curves*, Mathematics, Computer Science and Statistics Department Seminar, SUNY Oneonta
- NOVEMBER 2014 *Pythagorean triples*, Undergraduate Math Club, Binghamton University
- OCTOBER 2014 *Elliptic curves and Mordell's theorem*, Arithmetic Seminar, Binghamton University
- OCTOBER 2014 *Elliptic curves and Mordell's theorem*, Math Graduate Student Seminar, Binghamton University
- FEBRUARY 2014 *Polynomial maps over finite fields and residual finiteness of HNN extensions*, Math Graduate Student Seminar, Binghamton University
- SEPTEMBER 2012 *Transversality and related topics*, Toeholds in Topology Seminar, Binghamton University
- MARCH 2012 *Sheafification*, Toeholds in Topology Seminar, Binghamton University

TEACHING EXPERIENCE

Teaching Assistant/Instructor, State University of New York at Binghamton

- SPRING 2016 Linear Algebra (expected)
- FALL 2015 Calculus I
- SUMMER 2015 Linear Algebra
- SPRING 2015 Calculus II
- FALL 2014 Calculus I
- SUMMER 2014 Calculus I
- SPRING 2014 Calculus I (co-instructor)
- FALL 2013 Calculus I
- SUMMER 2013 Elementary Statistics for Biologists
- SPRING 2013 Elementary Statistics for Biologists (head teaching assistant)
- FALL 2012 Calculus I
- SPRING 2012 Elementary Statistics for Biologists (teaching assistant)
- FALL 2011 Mathematics in Action (teaching assistant)

CONFERENCES ATTENDED

- FALL 2015 Binghamton University Graduate Conference in Algebra and Topology
- SPRING 2015 Fifth Annual Upstate New York Number Theory Conference
- SPRING 2015 Arizona Winter School 2015: Arithmetic and Higher-Dimensional Varieties
- FALL 2014 Binghamton University Graduate Conference in Algebra and Topology
- SPRING 2014 Fourth Annual Upstate New York Number Theory Conference
- FALL 2013 Binghamton University Graduate Conference in Algebra and Topology
- SPRING 2013 Third Annual Upstate New York Number Theory Conference
- FALL 2012 Binghamton University Graduate Conference in Algebra and Topology
- FALL 2010 Binghamton University Graduate Conference in Algebra and Topology

SERVICE AND OUTREACH ACTIVITIES

FALL 2014	Graduate Student Representative on the Graduate Council
FALL 2014-PRESENT	Graduate Student Organization Senator
SPRING 2014-PRESENT	Co-organizer of the Binghamton University Math Graduate Student Seminar
FALL 2013-SPRING 2014	Treasurer for the Math Graduate Student Organization
FALL 2012-FALL 2015	Co-organizer of the Binghamton University Graduate Conference in Algebra and Topology (BUGCAT)
FALL 2009-FALL 2010	Co-organizer of the Annual Mansfield University Mathematics Competition for High School Students