

Karen Acquista

- CONTACT INFORMATION Department of Mathematics *Phone:* 617-358-3314
Boston University *Fax:* 617-353-8100
111 Cummington Street *E-mail:* kea@math.bu.edu
Boston, MA 02215 USA *WWW:* <http://math.bu.edu/people/kea>
- CITIZENSHIP United States
- PERSONAL Born November 4, 1979.
- RESEARCH INTERESTS Algebraic number theory, algebraic K -theory, Weil groups, algebraic geometry, quantum field theory
- EDUCATION **Brown University**, Providence, Rhode Island USA
Ph.D. in mathematics, June 2005.
 - Dissertation Title: “A generalization of class field theory using motivic complexes”
 - Advisor: Stephen LichtenbaumM.A. in Mathematics, June 2003.
Harvard University, Cambridge, Massachusetts USA
B.A. cum laude in Mathematics, June 2000
- TEACHING EXPERIENCE **Course Head**
Boston University, 2005-present.
 - Linear Algebra, Fall 2005.
 - Modern Algebra II, Spring 2006,
 - Calculus II, Fall 2006.**Reading Course Advisor**
Boston University, 2005-present.
 - Directed Study in Algebraic Geometry I, Fall 2005.
 - Directed Study in Number Theory II, Spring 2006.**Teaching Fellow**
Brown University, 2002-2005.
 - Calculus II, Fall 2002.
 - Honors Calculus II, Fall 2003.
 - Linear Algebra, Spring 2005.
- VISITING POSITIONS AND WORKSHOPS ATTENDED **Max Planck Institute for Mathematics**, visiting position, December 27, 2006 - January 10, 2007 and March 5 - 16, 2007.
Langlands Program, workshop at CIRM, June 26 - June 30, 2006.
Zeta functions all the way, program for women and mathematics at IAS, May 15 - May 26, 2006.
Cohomological approaches to rational points, workshop at MSRI, March 27 - March 31, 2006.

Eigenvarieties, semester-long workshop at Harvard, Spring 2006.

TALKS AND
PRESENTATIONS

AMS Spring Eastern Section Meeting, Special session on number theory.

- Class field theory for a semi-global field, 10/2006.

Max Planck Institute for Mathematics, Number theory lunch.

- Class field theory for two-dimensional fields, 6/2006.

Women and Mathematics Program at IAS, Research seminar.

- Quantum field theory and special values of multi-zeta functions, 5/2006.

Yale University, Algebra seminar.

- The Weil group of a two-dimensional local field, 5/2006.

AMS Spring Eastern Section Meeting, Special session on arithmetic geometry and modular forms.

- The Weil group of a two-dimensional local field, 4/2006.

Amherst College, Five college number theory seminar.

- A (down-to-earth) criterion for cohomological dimension, 11/2005.

Boston University, Algebra Seminar.

- A generalization of class field theory, 1/2005
- A criterion for cohomological dimension, 10/2005

Brandeis University, Fellowship of the Ring.

- A criterion for cohomological dimension, 10/2005

Brown University, Algebra Seminar.

- A generalization of class field theory, 11/2004

Brown University, mini-courses for graduate students.

- On Eric Friedlander's "A glimpse of algebraic K-theory," 2/2005-3/2005
- On Barry Mazur's "Notes on étale cohomology of number rings," 8/2004.

FUNDING AND
AWARDS

Recipient, Brown University Graduate School Dissertation Fellowship, Fall 2004.

Recipient, VIGRE Fellowship, Fall 2000, Spring 2001, Spring 2003.

SERVICE

Co-organizer, Boston University Motives-Arithmetic-Physics seminar, Spring 2006, Fall 2006, Spring 2007.

Co-organizer, Number Theory/Algebraic Geometry Student Seminar, Summer 2003.

Co-organizer, Brown University Graduate Student Seminar, 2002-2004.

Co-founder, Rose Whelan Society, 2002.

An affinity group for women in the math and applied math graduate programs at Brown University
funded through the VIGRE grant.