

JENNIFER JOHNSON-LEUNG

Address

Department of Mathematics, University of Idaho
303 Brink Hall
Moscow, ID 83844
<http://www.uidaho.edu/johnsonleung>
jenfns@uidaho.edu

Education

PhD., Mathematics, California Institute of Technology 2005
Thesis: Artin L -series for abelian extensions of imaginary quadratic fields.
Advisor: Matthias Flach
PhD. Minor in Chemistry
B.S., Chemistry and Mathematics, College of William and Mary 1998
Summa Cum Laude with High Honors in Chemistry

Employment

Assistant Professor, Department of Mathematics, University of Idaho 2007 -
Lecturer, Department of Mathematics, Brandeis University 2005-2007

Research Interests

Arithmetic Geometry and Number Theory, Special Values of L -functions, Iwasawa Theory, Siegel Modular Forms.

Papers

(with Guido Kings), *On the equivariant main conjecture for imaginary quadratic fields*, Submitted to *J. Reine Agnew. Math.*, May 2008.

Artin L -series for abelian extensions of imaginary quadratic fields, Dissertation, California Institute of Technology (2005)

(with Brooks Roberts), *Siegel modular forms of degree two attached to Hilbert modular forms*, preprint (2008)

The equivariant Tamagawa number conjecture for abelian extensions of imaginary quadratic fields, preprint (2008)

Selected Talks

Canadian Mathematical Society Caltech Number Theory Seminar Jan. 2007
“The equivariant main conjecture of Iwasawa Theory for imaginary quadratic fields”
Purdue University Number Theory Seminar Nov. 2006
“The equivariant main conjecture of Iwasawa Theory for imaginary quadratic fields”
Universitat Regensburg, Series of 4 Lectures May 2006
“Special Values of L -functions,” Sponsored Lectures.
Five Colleges Number Theory Seminar Feb. 2006
“The equivariant Tamagawa number conjecture and Iwasawa’s main conjecture”
University of Wisconsin Number Theory Seminar Feb. 2006

“The equivariant Tamagawa number conjecture and Iwasawa’s main conjecture” Brandeis University, Everyperson Seminar	Nov., 2005
“Think Globally, Prove Locally: L-functions in Arithmetic,” Invited Talk. Boston University Algebra Seminar	Sept. 2005
“ETNC for abelian extensions of imaginary quadratic fields” AMS Western Section Meeting, Arithmetic Geometry Special Session	April 2005
“On the Equivariant Tamagawa Number Conjecture” University of California, Berkeley, Number Theory Seminar	Dec. 2004
“The Equivariant Tamagawa Number Conjecture and Motivic Elements” Brandeis University, Fellowship of the Ring Seminar	Sept. 2004
“On the Equivariant Bloch-Kato Conjecture”	

Selected Awards and Fellowships

Graduate

Dolores Zohrab Liebmann Fellow	2004 - 2005
Achievement Rewards for College Scientists Fellow	2000 - 2005
NSF Graduate Research Fellow	1998 - 2001

Undergraduate

Thomas Jefferson Award in Natural Philosophy	1998
Phi Beta Kappa, Alpha Chapter of Virginia	1997
Barry M. Goldwater Scholar	1997 - 1998

Teaching Experience

Department of Mathematics, University of Idaho	2007-2008
Linear Algebra (Graduate), Instructor (Math 550–Fall 2008)	
Introduction to Higher Mathematics, Instructor (Math 215–F07, S08, F08)	
Department of Mathematics, Brandeis	2005-2007
Algebra (Graduate), Instructor (Math 101a–Fall 2006)	
Algebraic Topology (Graduate), Instructor (Math 121a–Fall 2005)	
Rings and Fields (Undergraduate), Instructor (Math 28b–Fall 2006)	
Number Theory (Undergraduate), Instructor (Math 38–Spring 2007)	
Algebra (Undergraduate), Instructor (Math 30a–Fall 2005)	
Statistics (Undergraduate), Instructor (Math 8a–Spring 2006)	
Biostatistics (Undergraduate), Instructor (Math 51a–Spring 2006, 2007)	
Department of Mathematics, Caltech	2001-2005
Linear Algebra, Instructor (Math 98)	
Teaching Assistant for undergraduate courses in calculus, linear algebra and number theory.	
Department of Chemistry, Caltech	1999-2000
Teaching Assistant for graduate courses in quantum mechanics and reactive scattering.	

Professional Experience/Service

Founder of Idaho Math Circle	
Women in Science outreach	
UI College of Science Scholarship Committee	
UI Math Committees: Colloquium, Math Club, Petitions	
GAANN committee: Successful grant application	Fall 2005
Organizer: Reading Group in Arithmetic	2005-2007
Organizer: Everytopic Seminar	2006-2007
Faculty advisor for independent study in epidemiology	Fall 2006
