

PERSONAL DATA

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EDUCATION

1997	Ph.D., Mathematics Advisor: Don Blasius	University of California at Los Angeles Los Angeles, California
1993	M.A., Mathematics	University of California at Los Angeles Los Angeles, California
1991	B.S., Honors Mathematics	Purdue University West Lafayette, Indiana
1991	B.A., French	Purdue University West Lafayette, Indiana

RESEARCH INTERESTS

Number Theory (the study of L-functions and automorphic forms)

ACADEMIC APPOINTMENTS AND PROFESSIONAL EXPERIENCE

2001 to Present Western New England University, Springfield, Massachusetts

Assistant Professor of Mathematics 2001-2005
Associate Professor of Mathematics 2005-2012
Professor of Mathematics (2012 to Present)

Teaching six courses a year, on a tenured appointment. Teaching in the *Master of Arts in Mathematics for Teachers* program. Advising students.

1997 to 2001 Trinity College, Hartford, Connecticut

Visiting Assistant Professor of Mathematics

Taught five courses a year, on an extended three-year appointment. Advised students.

- 1999 to 2009 (Summers)** **Stanford University, Stanford, California**
Visiting Scholar
- 1999 (Summer)** **The Center for Discrete Mathematics and Theoretical Computer Science (DIMACS)**
Participant, 1999 Reconnect Conference
Attended seminars on two current areas of mathematical research and developed a module for undergraduate study on Art Gallery Theorems.
- 1998 (Summer)** **University of California at Los Angeles, Los Angeles, California**
Departmental scholar
- 1991-1997** **University of California at Los Angeles, Los Angeles, California**
Member, UCLA Collegium of University Teaching Fellows, 1995 to 1996
Taught undergraduate seminar and participated in training course under faculty mentor supervision as one of eleven UCLA graduate students selected for this collegium. Course was entitled, "Graph Theory and Its Applications."
Campuswide T.A. Conference Workshop Leader, 1995 to 1996
Led workshops on the subject of math anxiety and student motivation.
Teaching Fellow, Department of Mathematics, 1992 to 1996 (Six Quarters)
Led discussion sections for undergraduate abstract algebra course, finite mathematics, and a variety of calculus courses. Implemented Harvard teaching method, using TI-81 calculators to enhance students' understanding of calculus.
Teaching Assistant Consultant, 1995 (Fall)
Trained and supervised first-time Teaching Assistants as one of three UCLA graduate students selected for this T.A. training program.
Solutions Writer, Houghton-Mifflin, 1994
Wrote solutions and provided input for introductory calculus book by Prof. Jon Rogawski (UCLA).

1987–1991 **Purdue University, West Lafayette, Indiana**

Grader, Teaching Assistant and Researcher, 1987–1991

Graded for various undergraduate mathematics courses. Assisted Prof. Ed Dubinsky in classroom and with NSF-funded research aimed at revitalizing calculus curriculum using Macintosh computers and MAPLE.

1989 (Summer) **Memphis University, Memphis, Tennessee**

Research Associate

Participated in Research Experiences for Undergraduates (REU) program sponsored by National Science Foundation, working in graph theory with Prof. Richard Schelp.

OTHER PROFESSIONAL ACTIVITIES

Western New England University, Springfield, Massachusetts

- Facilitator and Lead Teacher, Massachusetts Mathematics and Science Partnerships Program courses for area K-8 teachers (Number Theory, Functions and Algebra I and II, Numbers and Operations, and Calculus), 2009–present
- Member, Mathematical Association of America's Committee on Sessions of Contributed Papers, 2010-2013, renewed 2013-2016 (also co-organized the MAA General Contributed Paper Sessions at the Joint Meetings in 2012 and 2014)
- Participant, NSF-funded *Western Massachusetts Mathematics Partnership*, Five Colleges, Inc., 2011-present
- Reviewer, textbooks for Addison-Wesley and Freeman Publishers, 2001, 2004, 2007, 2008, 2010, 2011, 2013
- Member, Association for Women in Mathematics *Travel Grants Selection Committee*, 2010-2011 (Chair in 2011, substitute for one cycle in 2012)
- Co-organizer, *Special Session on New Trends in College and University Faculty Engagement in K-12 Education*, American Mathematical Society Eastern Sectional Spring Meeting, Worcester, Massachusetts, 2010-2011.
- Member, Massachusetts Department of Elementary and Secondary Education Panel to revise the 2000 Massachusetts Mathematics Curriculum Framework and the 2004 Supplement to the Massachusetts Curriculum Framework, 2008-2010
- Consultant, Project NExT, 2006–2007, 2007–2008, 2009-2010, 2013-2014
- Presenter, two-day Professional Development Workshop on *Math Modeling* for Springfield area High School teachers, 2010
- Chair, Program Committee for the fall meeting of the Northeast Section of the Mathematical Association of America, Western New England College, 2009
- Panelist and Reviewer, National Science Foundation, 2003–2009 , 2011
- Member, Mathematical Association of America Committee on the Trevor Evans Prizes, 2005-2008 (Chair in 2007-2008)

Mentor, Association for Women in Mathematics Workshop, Joint Mathematics Meetings, San Diego, California, 2008.
 Member, Workshop Postdoctoral Selection Committee for the Joint Mathematics Meetings, Association for Women in Mathematics, 2006
 Co-organizer, The 18th Annual Workshop on Automorphic Forms and Related Topics, Santa Barbara, California, 2004
 Invited Guest, the Forschungsinstitut für Mathematik at ETH, Zürich, Switzerland, January 24-31, 2004
 Member, Graduate Council, 2003 - 2009
 Faculty sponsor, Math Club, 2002 - 2008
 Coordinator, Project NExT sessions for returning participants, held at the AMS-MAA Joint Meetings in Baltimore, January, 2003
 Faculty sponsor, student presentation at MAA meeting, Northeastern section, *Evens, Primes, and the Fundamental Theorem of Arithmetic*, November, 2001

Trinity College, Hartford, Connecticut

Organizer, weekly number theory seminar (joint with Wesleyan University)
 Outside Examiner, Bates College Honors Thesis, *Paul Erdős: His Work and Legacy*, April, 2000
 Co-founder, Inter-Departmental Reading Group: Recent Developments in Cryptography, 1999 to 2000
 Women's Studies Committee, 1998 to 2001
 Women's Center Coordinating Committee, 1998 to 2001

University of California at Los Angeles, Los Angeles, California

Co-founder and member, Friends of Women in Mathematics, 1994 to 1997;
 President, 1995 to 1997
 Mathematics Department representative, Seminar in Advanced T.A. Training Pedagogies, 1995
 Graduate student representative, Graduate Studies Committee, Department of mathematics, 1994 to 1995
 Teaching assistant representative, Undergraduate Studies Committee, Department of Mathematics, 1994 to 1995
 Graduate student representative, Mathematics and Physical Sciences Council, 1993 to 1994

Purdue University, West Lafayette, Indiana

Student representative, Executive Committee, Phi Beta Kappa, 1990 to 1991
 Member, Science Student Council, 1987 to 1991
 International Student, University of Strasbourg, Strasbourg, France, 1989 to 1990
 Member, Board of Directors, University Church, 1988 to 1989
 Head Director and Accompanist, University-Sing, 1987 to 1989

GRANTS AND AWARDS

Western New England College Summer Research Grants, 2009-2013
The Christie Lecturer, Northeast section of the Mathematical Association of America, 2006
National Science Foundation Grant (PI), *Automorphic Summation Formulae*, Three-Year Award, 2005
Western New England College Faculty Development Grant (joint with Josephine Rodriguez),
Development of the Course CHANCE, 2004
National Science Foundation Grant (Co-PI), *The 18th Annual Workshop on Automorphic Forms and Related Topics*, 2004
National Science Foundation Grant (PI), *Renormalized Period Integrals*, Three-Year Award, 2002
AWM-NSF Mentoring Travel Grant, 2000, renewed 2001, 2002, 2003
The Arthur H. Hughes Award for Outstanding Teaching Achievement, Trinity College, 2001
Selected Post-Doctoral Speaker, AWM Workshop, AMS-MAA Joint Meetings, New Orleans, 2001
Trinity College One Year Faculty Research Expense Grant, 1998 to 1999
Project NExT Fellow, 1997 to 1998
Departmental Nominee, UCLA Luckman Distinguished Teaching Award, 1997
UCLA Dissertation Year Fellowship, 1996 to 1997
Graduate Opportunity Fellowship Program (GOFP) Fellowship, 1995 to 1996
UCLA Department of Mathematics Distinguished T.A. Award, 1995
Graduate Aid in Areas of National Need (GAANN) Fellowship, 1995
National Science Foundation Graduate Fellowship, 1991 to 1994
The Outstanding Senior, School of Science, Purdue University, 1991
The Outstanding Senior, Department of Foreign Languages, Purdue University, 1991
Alice T. Schafer Undergraduate Prize in Mathematics Honorable Mention, 1991
Barry M. Goldwater Scholar, 1989 to 1991
Dean's Scholarship from the School of Science, Purdue University, 1987 to 1991
Schenkman Memorial Award for Excellence in Algebra, Purdue University, 1990
Peat Marwick Golden Key Scholarship, Purdue Chapter, 1989

PROFESSIONAL ASSOCIATIONS

Phi Beta Kappa
Mathematical Association of America
American Mathematical Society
Association for Women in Mathematics
Pi Mu Epsilon
Phi Kappa Phi
Golden Key
Pi Delta Phi (National French Honor Society)
Alpha Lambda Delta

PUBLICATIONS

J. Beineke, B. Brubaker, and S. Frechette, *A crystal definition for symplectic multiple Dirichlet series*, in *Multiple Dirichlet Series, L-functions, and Automorphic Forms*, Bump, Friedberg, and Goldfeld, eds., Progress in Math. **300**, Birkhäuser, Boston (2012), 37-63.
J. Beineke, B. Brubaker, and S. Frechette, *Weyl group multiple Dirichlet series of type C*, Pacific J. of Math., **254** (1) (2011), 11-46.

- J. Beineke and C. Hughes, *Great Moments of the Riemann zeta function*, Biscuits of Number Theory, A. Benjamin and E. Brown, eds., Dolciani Math. Exp. **31**, MAA, Washington, DC (2009), 199-216.
- J. Beineke and D. Bump, *A summation formula for divisor functions associated to lattices*, Forum Math., **18** (6) (2006), 869-906.
- J. Beineke and D. Bump, *Moments of the Riemann zeta function and Eisenstein series II*, J. Number Theory, **105** (2004), 175-191.
- J. Beineke and D. Bump, *Moments of the Riemann zeta function and Eisenstein series I*, J. Number Theory, **105** (2004), 150-174.
- J. Beineke and D. Bump, *Renormalized periods on $GL(3)$* , Canad. J. Math., **55** (5) (2003), 933-968.
- J. Beineke and D. Bump, *Hidden symmetries for a renormalized integral of Eisenstein series*, Forum Math., **14** (3) (2002), 457- 475.
- J. Beineke, *Renormalization of Certain Integrals Defining Triple Product L-Functions*, Pac. J. of Math., **203** (1) (2002), 89-114.
- K. Schwingendorf, J. Hawks, and J. Beineke, *Horizontal and Vertical Growth of the Students' Conception of Function*, in G. Harel and E. Dubinsky (Eds.), *The Concept of Function: Aspects of Epistemology and Pedagogy*. MAA Notes Series No. 25 (1992), 133-149.

SELECT PRESENTATIONS (2004 - 2013)

Splendor in the Graphs.

- Joint with Lowell Beineke. *Math Club presentation*, Purdue University, West Lafayette, Indiana, 2011.
- *Prime Time Talk*. Hampshire College Summer Studies in Mathematics. Hampshire College. Amherst, Massachusetts, 2003, 2009.
- The SEARCH Program for high school girls, Mount Holyoke College, South Hadley, Massachusetts, 2009.
- Joint with Lowell Beineke. Contributed Paper. Spring meeting, Indiana Section of the MAA. Indianapolis, Indiana, 2009.
- Departmental Colloquium at Salem State College, Salem, Massachusetts, 2008.
- University of Connecticut Math Club, Storrs, Connecticut, 2008.
- Departmental Colloquium at Fitchburg State College, Fitchburg, Massachusetts, 2007.
- Sonia Kovalevsky Day Workshop. Indiana University - Purdue University at Fort Wayne, Indiana, 1998.
- Departmental Colloquium at Wellesley College, Wellesley, Massachusetts, 1997.

Oppenheim Summation and Moments of the Riemann Zeta Function.

- *Automorphic Forms and Representation Theory Seminar*, Purdue University, West Lafayette, Indiana, 2011.
- *Special Seminar*, Heilbronn Institute, University of Bristol, England, 2010.
- *Number Theory Seminar*, University of Oxford, England, 2010.

MAA: The Musical.

- Musical Presentation directed by Annalisa Crannell. MAA Mathfest, Lexington, Kentucky, 2011.

Great Moments of the Riemann Zeta Function.

- *Mathematics Department Colloquium*, Western New England University, Springfield, Massachusetts, 2011.
- *Thursday Lunch Talk*, Center for Women in Mathematics, Smith College, Northampton, Massachusetts, 2010.
- *Senior Seminar Series*, Sacred Heart University, Fairfield, Connecticut, 2010.
- *Mathematics Department Colloquium* at the University of York, England, 2010.
- *Awards Day Colloquium* at the University of Connecticut, Storrs, Connecticut, 2009.
- Departmental Colloquium at Amherst College, Amherst, Massachusetts, 2008.
- Departmental Colloquium at Indiana University - Purdue University at Fort Wayne, Indiana, 2006.
- The Christie Lecture. Northeast Section of the MAA. Fairfield, Connecticut, 2006.
- The College of the Holy Cross Pi Mu Epsilon Colloquium. Worcester, Massachusetts, 2006.
- "Gems of Number Theory" Special Session. MAA Mathfest. Albuquerque, NM, 2005.
- Wesleyan University Algebra/Number Theory Seminar. Middletown, Connecticut, 2004.

Great Moments of the Riemann Zeta-function: Served Family Style.

- *Special Session on History and Philosophy of Mathematics*. AMS Eastern Sectional Meeting. Worcester, Massachusetts, 2011.

Weyl Group Multiple Dirichlet Series of Type C.

- *Durham Days on Modular Forms* Conference, University of Durham, England, 2010.
- *Pure Mathematics Seminar*, University of York, England, 2010.
- Contributed Paper. AMS-MAA Joint Meetings. Washington, DC, 2009.
- Joint with Sharon Frechette. Special Session in Number Theory. AMS Eastern Sectional Meeting. Middletown, Connecticut, 2008.

What Makes a Successful Academic Career?

- Panelist. *Heilbronn Fellow Professional Development Panel*, Bristol University, England, 2010.

Weyl Group Multiple Dirichlet Series and GT-Patterns I and II.

- Joint with Sharon Frechette. Special Session on Number Theory. AMS Eastern Sectional Meeting. Worcester, Massachusetts, 2009.

The CNN United States of Mathematics Presidential Debate.

- Dramatic Presentation (portrayed the Moderator), written by Colin Adams and Tom Garrity. AMS-MAA Joint Mathematics Meetings. Washington, DC, 2009.

Lewis Carroll in Numberland.

- Dramatic Presentation (portrayed Alice), written by Robin Wilson. AMS-MAA Joint Mathematics Meetings. Washington, DC, 2009. New Orleans, Louisiana, 2001. San Antonio, Texas, 1999.

The Massachusetts K-12 Curriculum Framework.

- Joint with Maura Murray. Contributed Paper. Fall meeting, Northeast Section of the MAA. Waltham, Massachusetts, 2008.
- Joint with Andrew Perry. Springfield Public Forum sponsored by the Massachusetts Department of Elementary and Secondary Education. Springfield, Massachusetts, 2008.

The Faculty Member as Teacher and Scholar.

- Panelist. *Project NExT Workshop*, Madison, WI, 2008.

Graphical Games and Puzzling Paradoxes.

- Invited Guest Speaker. *MathPath*, Burlington, VT, 2008.

Atkinson's Formulas for the Mean Square of the Riemann Zeta Function.

- Special Session in L-functions and Automorphic Forms. AMS Eastern Sectional Meeting. New York, New York, 2008.

Atkinson's Formulas for the Mean Square of the Riemann Zeta Function.

- Special Session in Automorphic Forms and Related Topics. AMS-MAA Joint Mathematics Meetings. San Diego, California, 2008.
- The Maine/Quebec Conference on Number Theory and Related Topics. Orono, Maine, 2007.
- The 21st Annual Workshop on Automorphic Forms and Related Topics. Santa Barbara, California, 2007.
- Contributed Paper. AMS-MAA Joint Meetings. New Orleans, Louisiana, 2007.

A Difficult Delivery.

- Dramatic Presentation (portrayed Karen), written by Colin Adams. AMS-MAA Joint Mathematics Meetings. San Diego, California, 2008.

Great Moments of the Riemann Zeta Function.

- Departmental Colloquium at Indiana University - Purdue University at Fort Wayne, Indiana, 2006.
- The Christie Lecture. Northeast Section of the MAA. Fairfield, Connecticut, 2006.
- The College of the Holy Cross Pi Mu Epsilon Colloquium. Worcester, Massachusetts, 2006.
- "Gems of Number Theory" Special Session. MAA Mathfest. Albuquerque, NM, 2005.
- Wesleyan University Algebra/Number Theory Seminar. Middletown, Connecticut, 2004.

Oppenheim Summation and Moments of the Riemann Zeta Function.

- Special Session in Number Theory. AMS Eastern Sectional Meeting. Storrs, Connecticut, 2006.

One Hundred Years of Voronoi Summation.

- Special Session in The History and Philosophy of Mathematics. AMS Western Sectional Meeting. San Francisco, California, 2006.

An Interview with Martin Gardner.

- Joint with Lowell Beineke. The Seventh Gathering for Gardner. Atlanta, Georgia, 2006.

Through the Lurking Graphs

- Joint with Lowell Beineke. PI Math Club at Indiana-Purdue University at Fort Wayne, Indiana, November, 2001. November, 2005.

A Summation Formula for Divisor Functions Associated to Lattices.

- Wesleyan University Algebra/Number Theory Seminar. Middletown, Connecticut, 2006.
- Contributed Paper. AMS-MAA Joint Meetings. San Antonio, Texas, 2006.

Summation Formulas and Moments of the Riemann Zeta Function.

- The Maine/Quebec Conference on Number Theory and Related Topics. Orono, Maine, 2005.
- Five College Number Theory Seminar. Amherst, Massachusetts, 2005.
- Special Session in Automorphic Forms and Analytic Number Theory. AMS Eastern Sectional Meeting. Lawrenceville, New Jersey, 2004.
- Wesleyan University Algebra/Number Theory Seminar. Middletown, Connecticut, 2004.
- Brown University Algebra/Number Theory Seminar. Providence, Rhode Island, 2003.

Taking \$tock: Using the Newspaper to Teach Math.

- Newspapers in Education Program, sponsored by *The Republican*. Springfield, Massachusetts, 2004.

Teaching High School Teachers at Western New England College.

- Departmental Colloquium at the University of Southern Maine, Portland, Maine, 2004.