

Department of Mathematics
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MATHEMATICAL INTERESTS

Several Complex Variables, Partial Differential Equations, Harmonic Analysis

EDUCATION

Ph.D. Mathematics, University of Wisconsin – Madison, 2014 (*Expected*)

M.S. Mathematics, University of Wisconsin – Madison, 2011

B.A. Mathematics, Luther College, 2009

Summa cum laude

Minor: Music

EMPLOYMENT

UNIVERSITY OF WISCONSIN - MADISON

Teaching Experience

(222) Calculus and Analytic Geometry II (Spring 2012)

(221) Calculus and Analytic Geometry I (Fall 2011^{*†})

(***) Pre-Calculus (Engineering Summer Program) (Summer 2011^{§°})

(198) Pre-Calculus (Summer Collegiate Experience) (Summer 2011^{§°})

(376) Topics in Multi-Variable Calculus and Differential Equations (Spring 2011^{*})

(222) Calculus and Analytic Geometry II (Fall 2010^{*†})

(198) Pre-Calculus (Summer Collegiate Experience) (Summer 2010[°])

(222) Calculus and Analytic Geometry II (Spring 2010^{*})

(222) Calculus and Analytic Geometry II (Fall 2009^{*})

([§]Lecturer, [†]Teaching Assistant Coordinator, ^{*}Evaluated as Superior, [°]Not Evaluated)

Grader

(211) Calculus (Summer 2010)

Copy Editor

Communications in Mathematical Sciences (Summer 2010–Present)

LUTHER COLLEGE

Logic Teaching Assistant (Spring 2009)

Mathematics Tutor (Fall 2006 – May 2009)

Assignment Grader (Fall 2006 – May 2009)

HONORS & AWARDS

University Housing Honored Instructor, U. Wisconsin - Madison, Fall 2011.
Mathematics Graduate Teaching Award, Math Department, U. Wisconsin - Madison, Spring 2011.
University Housing Honored Instructor, U. Wisconsin - Madison, Spring 2011.
University Housing Honored Instructor, U. Wisconsin - Madison, Spring 2010.
AMS Trjitzinsky Award, 2008
NSF Research Experiences for Undergraduates, Texas A&M University, 2008
Carl Strom Prize in Mathematics, Luther College, 2008
NSF Research Experiences for Undergraduates, University of Iowa, 2007

MENTORSHIP AND OUTREACH ACTIVITIES

President, Math Club, Luther College, (2008-2009)
Tutor, Educational Talent Search, Luther College, (2005-2006)

PUBLICATIONS

Chaotic Dynamics, Fractals, and Billiards (with S. Rozner and E. Sutter), Rose-Hulman Undergraduate Mathematics Journal, **9**, No. 1 (2008).

PRESENTATIONS

Markov Chains for Dispersal Kernels with Diffusion and Nonhomogeneous Convection, National Conferences on Undergraduate Research, University of Wisconsin - La Crosse (April 18, 2009)
Simulating Dispersal Kernels with Diffusion and Nonhomogeneous Convection. REU Symposium, Texas A&M University (July, 2008)
Simple Constructions in Klein's Conformal Model of Elliptic Geometry. Midwest Undergraduate Math Symposium, Simpson College (April, 2008)
Chaotic Dynamics, Fractals, and Billiards. REU Symposium, University of Iowa (July 2007)

SCHOLARLY AND HONORARY SOCIETIES

Phi Beta Kappa, National Honor Society (Inducted 2009)
American Mathematics Society (Joined 2007)
Pi Mu Epsilon, National Mathematics Honor Society (Inducted 2006)

GRADUATE COURSEWORK

Spring 2012

Partial Differential Equations (820)
Adv. Top. Harmonic Analysis (828)
Reading: Complex Analysis (990)

Fall 2011

Adv. Top. Complex Analysis (823)
Representation Theory (843)
Differentiable Manifolds (761)

Spring 2011

Algebra II (742)
Reading: Harmonic Analysis (990)
Reading: Complex Analysis (990)

Fall 2010

Fourier Analysis (827)
Adv. Top. Complex Analysis (823)
Partial Differential Equations (819)

Spring 2010

Real Analysis II (725)
Complex Analysis (722)
Algebraic Topology II (752)

Fall 2009

Real Analysis I (721)
Algebra I (741)
Algebraic Topology I (751)