

Emille K. Davie

Curriculum Vitae

Department of Mathematics, University of California, Santa Barbara
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Research Interests

Braid groups, mapping class groups of surfaces

Employment

University of California, Santa Barbara

2007-present

Visiting Assistant Professor

Education

University of Georgia

2001-2007

Doctorate of Philosophy in Mathematics

Co-Advisors: William Kazez and Clinton McCrory

Spelman College

1997-2001

Bachelor of Science in Mathematics

Honors and Publications

“Characterizing right-veering homeomorphisms of the punctured torus via the Burau Representation” arXiv: 0804.4694v2, submitted for publication

UCSB Department of Mathematics Mochizuki Teaching Award, 2009

UGA Department of Mathematics Outstanding Graduate Teaching Award, 2007

Southern Regional Education Board Dissertation Fellowship Award, 2006

University of Georgia Outstanding Graduate Student Instructor Award, 2005

Ford Foundation Pre-Doctoral Fellowship Honorable Mention, 2003

VIGRE Fellowship 2001, 2003, 2005

Conference Talks

AMS Fall Western Section Meeting; Riverside, CA, November 2009

Special Session on Knotting Around Dimension Three: A Special Session in Memory of Xiao-Song Lin, I

SACNAS National Conference; Dallas, TX, October 2009

New Methods in Topology and Quantum Geometry Session

Promoting Diversity at the Graduate Level: A National Forum, Oct. 2008

“A Diversity of Careers in Mathematics”, panelist

Mathematical Sciences Research Institute; Berkeley, California

AMS-MAA Joint Mathematics Meetings; San Diego, California, January 2008

NAM Granville-Browne-Hayes Session

AMS-MAA Joint Mathematics Meetings; New Orleans, LA, January 2007

Mapping Class Groups and Handlebodies AMS Special Session

Selected Seminar Talks

California Institute of Technology, May 2009

Westmont College, March 2009

Pomona College, March 2009

Loyola Marymount University, February 2009

California State University, Channel Islands, Nov. 2008

University of Southern California, Feb. 2008

Emory University, April 2007

Louisiana State University, Jan. 2007

Professional and Service Activities

Postdoctoral Mentor for MSRI-UP 2009: Coding Theory, June-July 2009

Program Committee member for the 2010 Infinite Possibilities Conference

Co-organizer of the University of Georgia VIGRE seminar, 2006-2007

Program Mentor for Enhancing Diversity in Graduate Education program, June 2006

Teaching

Visiting Assistant Professor, University of California, Santa Barbara

MATH 116: Combinatorial Analysis, Fall 2009

MATH 227C: Topics in Topology (Braid groups and Artin groups), Spring 2009

MATH 3H/5H: Calculus/Advanced Calculus Honors Seminar, 2008-09

MATH 8: Introduction to Higher Mathematics, Winter 2008

MATH 113: Non-Euclidean Geometry, Fall 2007 and Fall 2008

MATH 145: Introduction to Topology, Spring 2008

MATH 3A: Calculus with Applications I, Spring 2008

MATH 3B: Calculus with Applications II, Winter 2008

Graduate Student Instructor, University of Georgia

GRSC 7770: Seminar for Graduate Teaching Assistants, Fall 2006

MATH 8205: Topology Problem Solving Session, Spring 2006

MATH 2200: Differential Calculus, Spring 2005, Fall 2004, and Spring 2003
MATH 2200L: Differential Calculus Maple Lab, Spring 2005
MATH 7900: Foundations for Graduate Mathematics (Teaching Assistant), Fall 2004
MATH 1113: Precalculus, Fall 2002

Selected Professional Meetings and Conferences Attended

2009 Georgia International Topology Conference, May 2009

University of Georgia; Athens, GA

Low Dimensional Topology, August 2008

In honor of Robion Kirby's 70th birthday

Mathematical Sciences Research Institute; Berkeley, CA

Women and Mathematics Program, May 2008

Institute for Advanced Study; Princeton, NJ

Introduction to Geometric Group Theory, Aug. 2007

Mathematical Sciences Research Institute; Berkeley, CA

Institute on Teaching and Mentoring, Oct. 2006

Miami, Florida

Infinite Possibilities Conference, April 2005

Spelman College; Atlanta, Georgia

Braids, Links, and Mapping Class Groups, Mar. 2005

In honor of Joan Birman

Columbia University; New York, NY

Knot Theory and 3-Manifolds Summer School, July 2004

University of British Columbia; Vancouver, British Columbia

Professional Memberships

American Mathematical Society

National Association of Mathematicians

Association for Women in Mathematics

Spelman College Alumni Association

Jackie Robinson Foundation Alumni Association