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
Faculty Mentor for McNair Scholars Program, July 2009-present
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