

Curriculum Vitae

Brigitte Lahme

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Education

Colorado State University, Fort Collins, Colorado

Ph.D., Mathematics, 1999

M.S. Mathematics, 1995

Universität Hamburg, Germany

Diplom, Mathematics, 1998

Philipps- Universität Marburg, Germany

Vordiplom in Mathematics, 1993

Areas of Professional Interest

- Mathematics Education
- Teacher Education and Professional Development
- Dynamical Systems

Professional Experience

2008 – present: Associate Professor, Department of Mathematics and Statistics, Sonoma State University

2002 – 2008: Assistant Professor, Mathematics Department, Sonoma State University

1999 – 2002: Teaching Post-Doctorate, Mathematics Department, University of Arizona

1994 – 1999: Graduate Teaching Assistant, Mathematics Department, Colorado State University

Selected Publications

- *Functions Modeling Change*, 4th edition (A. Gleason et al.), Wiley, 2011 (precalculus textbook co-author, see Curriculum Development section).
- Instructor's Manual to accompany *Applied Calculus*, 4th edition (D. Hughes-Hallett et al.), Wiley 2010 (co-author and coordinator).
- Instructor's Manual to accompany *Calculus*, 5th edition (D. Hughes-Hallett et al.), Wiley 2009 (co-author and coordinator).

- B. Lahme, J. Morris, E. Toubassi: "The Case for Labs in Precalculus," *MAA Notes*, Volume: A Fresh Start Collegiate Mathematics: Rethinking the Courses Below Calculus, 2006.
- *Functions Modeling Change*, 3rd edition (A. Gleason et al.), Wiley, 2006 (precalculus textbook co-author).
- B. Lahme, E. McDonald: "Infinity and Beyond – A Mathematics Class for Life Long Learning", *Focus*, January 2006.
- Instructor's Manual to accompany *Calculus*, 4th edition (D. Hughes-Hallett et al.), Wiley 2005 (co-author and coordinator).
- B. Lahme: "Symmetry and the Karhunen-Loève Decomposition," *Advances in Imaging and Electron Physics*, Vol. 132, pp. 69-107, Elsevier Inc., 2004.
- B. Lahme, M. Robinson: "Training Undergraduates as Peer Instructors in Mathematics," *PRIMUS*, Vol. 14 NO. 2, pp. 127-140, June 2004.
- C. Goff, B. Lahme: "Benefits of a Comprehensive Undergraduate Teaching Assistant Program," *PRIMUS*, Vol. 13 NO. 1, pp. 75-84, March 2003.
- *Functions Modeling Change*, 2nd edition (A. Gleason et al.), Wiley, 2003 (precalculus textbook co-author, see Curriculum Development section).
- B. Lahme, R. Miranda: "Karhunen-Loève Decomposition in the Presence of Symmetry," *IEEE Transactions on Image Processing*, Vol. 8 No. 9, September 1999.

Selected Presentations, Conferences, and Workshops

Conference of the California Math Council – North, Asilomar, December 2011

"Advice From K-12 and University-based Lesson Study Practitioners", Panel participant,
Critical Issues in Mathematics Education 2011: Mathematical Education of Teachers,
MSRI, May 2011

"A Lesson Study in Real Analysis," with J. Morris, E. Newman, Joint Mathematics Meetings of
the American Mathematical Society and the Mathematical Association of America, San
Francisco, January 2010.

Northern California Undergraduate Mathematics Conference, SSU, April 2009, Co-Organizer.

"Lesson Study in the SSU Department of Mathematics and Statistics – Collaboration in Teaching
Preservice Math Teachers," with B. Ford, R. Marks, E. Mendez, K. Morris, Conference:
Using Partnerships to Strengthen Elementary Mathematics Teacher Education,
Mathematical Sciences Research Institute, December 2008.

"Taking Symbols Seriously," M*A*T*H Colloquium, Sonoma State University, September
2008.

"Place Value for Future Teachers: A lesson study," with E. Mendez, Rick Mendez, Ben Ford,
Joint Meetings of the MAA/AMS, San Diego, January 2008.

- “Collaboration In Teaching Preservice Math Teachers,” with E. Mendez, Conference of the California Math Council – North, Asilomar, December 2007.
- Lesson Study Conference, Santa Rosa, May 2007, Breakout Group Leader and Knowledgeable Other.
- “Activities in Modern Algebra: Advantages and Challenges,” Presentation, Faculty-Student Seminar, Sonoma State University, March 2007.
- Lesson Study Conference, Santa Rosa, May 2006, Breakout Group Leader.
- Raising the floor: Progress and setbacks in the struggle for quality mathematics education for all, Conference at MSRI, Berkeley, May 2006.
- Joint Meeting of the American Mathematical Society (AMS) and the Mathematical Association of America (MAA), San Antonio, January 2006, Mini-Course attended: The Scholarship of Teaching and Learning.
- Preparing Mathematicians to Educate Teachers II (PMET) Workshop, Humboldt State University, June 2005.
- Lesson Study Conference, Santa Rosa, May 2005.
- Joint Meeting of the American Mathematical Society (AMS) and the Mathematical Association of America (MAA), Atlanta, January 2005.
- “How do you rate your units?” with J. Morris, Conference of California Math Council – North, Asilomar, December 2004.
- “Penrose Tilings,” Invited Colloquium Talk, California State University, Chico, November 2004.
- Preparing Mathematicians to Educate Teachers (PMET) Workshop, Humboldt State University, June 2003.

Selected Service

- 2011 – 2014, Governor, MAA Golden Section (Northern California, Nevada, Hawaii)
- 2011 – Volunteer, Conference of California Math Council – North, Asilomar
- 2010 – present, SST Representative, Academic Planning Committee, Sonoma State University
- 2010 – present, Facilities Coordinator, Mesa Day 2011
- 2009 – 2010 Facilities Coordinator, “Expanding Your Horizons” Conference, Sonoma State University
- 2007 – present, Chair, Mathematics Department Education Committee, Sonoma State University
- 2005 Member, California Commission on Teacher Credentialing – Subject Matter Program Document Revision Team, Sonoma State University
- 2005 – 2006 Secretary, Student Affairs Committee, Sonoma State University
- 2004 – 2005 Chair, Student Affairs Committee, Sonoma State University

2004 – present, Co-Coordinator, Northern California Undergraduate Mathematics Conference
Organization Committee, Sonoma State University