

Florence Newberger

Curriculum Vitae

Department of Mathematics
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Employment

August 2001-present, Assistant Professor, California State University, Long Beach.

August 1998-May 2001, S. Chowla Research Assistant Professor, Pennsylvania State University at University Park.

Education

- Ph.D. in Mathematics, University of Maryland at College Park, 1998.
Advisor: Daniel J. Rudolph.
Thesis: *Ergodic theory of the Bowen-Margulis measure on real rank 1 symmetric spaces.*
- B.A. with honors in Mathematics, B.S. in Earth Sciences, University of California at Santa Cruz, 1992.

Publications and Papers in Preparation

- “Counter examples to minimal entropy rigidity in the Finsler category normalized by symplectic volume, with co-author B. Colbois and P. Verovic, in preparation.
- “Patterson-Sullivan measure for geometrically finite groups with parabolic elements acting on real rank 1 symmetric spaces,” submitted 2003.
- “Minimal entropy rigidity for Finsler manifolds of negative flag curvature,” with co-author Jeff Boland, *Ergodic Theory and Dynamical Systems* **21** (2001), no. 1, 13–23.
- “Ergodic theory of Bowen-Margulis measure on exotic hyperbolic spaces,” *Trans. AMS*, per. rev.

Professional Societies

- American Mathematical Society.
- Mathematics Association of America.
- Association for Women in Mathematics.

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Research Conferences and Talks

- Organizer, Los Angeles Dynamics Seminar, CSULB, January 2002 and Saturday, February 22, 2003.
- Participant, Albertofest, Conference on Complex Geometry and Dynamics, Cuernavaca, Mexico, January 5-9, 2003.
- Invited speaker, Los Angeles Dynamics Seminar, USC, November 2002.
- Visitor and invited speaker, Mathematics department, University of Neuchatel, Neuchatel, Switzerland, June 2-July 13, 2002.
- Participant, Summer school in hyperbolic and arithmetic manifolds, Campus Scientifique de l'Universite de Savoie, Le Bourget-du-Lac, France, June 23-29, 2002.
- Participant, Los Angeles Dynamics Seminar, USC, December 2001.
- Participant, Mount Baldy Conference on Differential Geometry, Claremont, California, November 17, 2001.
- Visitor and invited speaker, Institute of Mathematics, University of Neuchâtel, Switzerland, June 11-28, 2001.
- Invited speaker, Joint Seminar on Hyperbolic Geometry of the Universities of Neuchâtel and Fribourg, June 18 and June 25, 2001.
- Invited Speaker, Mathematics Department Colloquium, Instituto de Matematicas, Unidad Cuernavaca UNAM, Cuernavaca, Mexico, May 30, 2001.
- Invited speaker, AMS-SMM Joint Mathematics Meetings, Special Session on Dynamical Systems, Morelia, Mexico, May 23-26, 2001.
- Invited Speaker, Southwest Regional Workshop on New Directions in Dynamical Systems, Los Angeles, California, November 16-19, 2000.
- Participant, EuroWorkshop: Rigidity in Dynamics and Geometry, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, March 27-31, 2000.
- Participant, AMS Special Session in Smooth Ergodic Theory and Dynamical Systems, Seattle, Washington, July 24-August 13, 1999.
- Invited Speaker, Midwest Dynamics Conference, University of Michigan, Ann Arbor, Michigan, April 1999, Evanston, Illinois, May 1998.
- Invited Speaker, Dynamical Systems and Related Topics Workshop, University of Maryland, College Park, Maryland, March 1999, April 1998.
- Invited Speaker, CBMS pre-conference workshop: "Ergodic Theory, Groups and Geometry," University of Minnesota, Minneapolis, Minnesota, June 1998.

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Honors and Awards

- Recipient, Scholarly and Creative Activities Award: Summer Stipend, 2003.
- 2001 National Project NExT Dolciani Fellow.
- Department of Mathematics Distinguished Teaching Assistant, University of Maryland, 1997-98.
- University of Maryland Graduate School Two Year Fellowship, awarded 1992.
- Invited participant in the National Science Foundation Research Experience for Undergraduates at Indiana University, Bloomington, Summer 1991. Advisor: Marlies Gerber.

Teaching Related Activities

Extracurricular Teaching and Related Projects

- Recipient, Southern California MAA Mini-grant to bring five minority undergraduates to the Joint Mathematics Meetings in San Diego, California, January 2002.
- Judge, Undergraduate research poster session, Joint Mathematics Meetings, San Diego, California, January 2002.
- Chair/Organizer, Project NExT Panel, "Advice on Advising: Preparing our Mathematics Majors for the Future," Joint Mathematics Meetings, San Diego, California, January 2002.
- Undergraduate Research Advisor in Math Education: Assisted 13 math education majors to prepare and present 15 minute talks for the Pennsylvania Council of Teachers of Mathematics spring conference in Pittsburgh, Pennsylvania, Spring 2001.
- Presenter, Women in Sciences and Engineering Summer Program, University Park, Pennsylvania, July 1999 and 2000.

Conferences

- Co-organizer, Southern California Section NExT workshop in conjunction with Southern California Sectional MAA Meeting, October 12, 2002, Cerritos College.
- National Project NExT Participant, MAA Mathfest, Burlington, Vermont August 2002.
- National Project NExT Participant, Joint Mathematics Meetings, San Diego, California, January 2002.
- Participant, Southern California MAA Section Meeting, Loyola Marymount University, Los Angeles, California, October 2001.
- National Project NExT Participant, MAA Mathfest, Madison, Wisconsin, August 2001.
- Allegheny Mountain Section NExT Participant, Spring Meeting for the Allegheny Mountain Section of the MAA, Altoona, Pennsylvania, April 2001, 2000.
- Participant (with 13 PSU undergraduates), Pennsylvania Council of Teachers of Mathematics Annual Conference, Pittsburgh, Pennsylvania, March 2001.