

# Diane M. Vavrichek

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## Education

- Ph.D. University of Michigan, Mathematics. April 2008.  
Dissertation advisor: Peter Scott.
- B.A. Beloit College, Mathematics, Summa cum laude. May 2003.

## Positions

- Riley Assistant Professor, Binghamton University, 2008-present.
- National Science Foundation Research Training Grant, University of Michigan, 2006-2008.
- Graduate Student Instructor, University of Michigan, 2003-2006.

## Research

- Research interests: Geometric group theory, geometric topology.
- *Strong accessibility for hyperbolic groups*. Algebraic & Geometric Topology, 8(3): 1459-1480, 2008.
- *Accessibility and JSJ decompositions of groups*. Ph.D. Thesis, University of Michigan, 2008.
- *The quasi-isometry invariance of commensurizer subgroups*. Submitted.
- *On the coarse geometric detection of subgroups*. In Preparation.

## Professional activities

### Talks given

- Geometric Group Theory Conference, Bedlewo, Poland, June 2009.
- Journées ANR de théorie géométrique des groupes Conference, IRMA, France, June 2009.
- University of Southampton's Pure Mathematics Colloquium, May 2009.
- University of Oklahoma Karcher Special Lecture, March 2009.

- University of Oklahoma's Karcher Colloquium, March 2009.
- Cornell University's Topology seminar, November 2008.
- SUNY Buffalo's Geometry and Topology seminar, October 2008.
- Spring Topology and Dynamics Conference, March 2008.
- The Ohio State University Geometric Group Theory Seminar, Columbus, OH, January 2008.
- AMS Spring Central Section Meeting, Special Session on Geometric Topology, March 2007.
- IAS and Princeton University Program for Women in Mathematics: Geometric Group Theory, May 2005.
- Nebraska Conference for Undergraduate Women in Mathematics, February 2003.

**Conferences attended**

- Geometric Group Theory, Bedlewo, Poland. June 2009.
- Journées ANR de théorie géométrique des groupes, Strasbourg, France. June 2009.
- Cornell Topology Festival, Cornell University. May 2009.
- AMS Joint Meetings, Washington, D.C. January 2009.
- Random Groups and Random Graphs, Bedlewo, Poland. June 2008.
- Workshop on Non Positive Curvature and the Elementary Theory of Free Groups, Anogia, Greece. June 2008.
- Spring Topology and Dynamics Conference, University of Wisconsin/Marquette University. March 2008.
- Topics in Teichmuller Theory and Kleinian Groups, MSRI. November 2007.
- Topics in Geometric Group Theory, MSRI. November 2007.
- Introduction to Geometric Group Theory, MSRI. August 2007.
- Introduction to Teichmuller Theory and Kleinian Groups, MSRI. August 2007.
- Aspects of Teichmuller Theory, University of Michigan. April 2007.
- AMS Spring Central Section Meeting, Miami University. March 2007.
- Conference on Teichmuller Theory and Kleinian Groups in honor of Dick Canary, University of Michigan. December 2006.
- Workshop on Geometric Methods in Group Theory, Carleton University. August 2006.
- Combinatorial and Geometric Group Theory, Vanderbilt University. May 2006.
- Future Directions in 3-Manifolds, University of Michigan. October 2005.
- IAS and Princeton University Program for Women in Mathematics: Geometric Group Theory, IAS. May 2005.