

Shawn Rafalski

Fairfield University ■ Department of Mathematics & Computer Science ■ Bannow 15 ■ Fairfield, CT 06824
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EDUCATION

University of Illinois at Chicago, PhD in Mathematics, 2007

Thesis: *Immersed turnovers in hyperbolic 3-orbifolds*

Advisor: Ian Agol

University of Illinois at Chicago, MS in Mathematics, 2003

Eastern Michigan University, BS in Mathematics, 2001

RESEARCH INTERESTS

Hyperbolic Geometry and Kleinian Groups

Geometric Structures on 3-Manifolds and 3-Orbifolds

Low-Dimensional Topology

EMPLOYMENT

Assistant Professor, Fairfield University, September 2008-present

Visiting Assistant Professor, Williams College, 2007-2008

Instructor, University of Illinois at Chicago, 2005-2006

Teaching Assistant, University of Illinois at Chicago, 2004-2005 and 2006-2007

Undergraduate Tutor, Mathematical Learning Center, Eastern Michigan University, 1999-2001

Undergraduate Assistant, Emerging Scholars Program, Eastern Michigan University, 1999-2001

PUBLICATIONS

Turnovers in hyperbolic reflection orbifolds (in preparation)

A relative isoperimetric inequality for certain warped product spaces (in preparation)

Immersed turnovers in hyperbolic 3-orbifolds (submitted)

Available at <http://front.math.ucdavis.edu/0708.3415>

TALKS

Yale University (invited speaker), Topology & Geometry Seminar, November 2008

AMS Northeast Sectional Meeting (invited speaker), Special Session on Geometric Function Theory, Wesleyan University, October 2008

Georgia Topology Conference (invited speaker), University of Georgia, May 2008

Boston College, Geometry & Topology Seminar, April 2008

City University of New York Graduate Center, Complex Analysis & Dynamics Seminar, March 2008

Tufts University, Geometric Group Theory & Topology Seminar, September 2007

Valley Geometry Seminar, University of Massachusetts Amherst, September 2007

Williams College, Faculty Colloquium, September 2007

24th Annual Workshop in Geometric Topology, Calvin College, July 2007

University of Illinois at Chicago, Geometry, Topology & Dynamics Seminar, March 2007

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ACADEMIC SERVICE

Panelist, Mathematics Graduate School Information Roundtable, Fairfield University, October 2008

Facilitator of “Conundrums” (monthly mathematical problem-solving contest), Williams College, 2007-2008

Faculty advisor for the “Green Chicken Competition” (annual mathematical competition between Williams College and Middlebury College students), Williams College, October 2007

Organizer of the Geometry, Topology and Dynamics Graduate Student Seminar, University of Illinois at Chicago, 2005-2007

Graduate student mentor for first-year graduate students, University of Illinois at Chicago, 2004-2006

STUDENT ADVISING

Organizer and leader, Hyperbolic Geometry Research Group, SMALL Research Experience for Undergraduates Program, Williams College, Summer 2008. Mentored three students.

HONORS

Research Assistantship, University of Illinois at Chicago, 2006

Participant, “Ricci Flow and 3-Manifolds,” MSRI Summer Graduate Program, University of California, Berkeley, Summer 2005

Participant, “Knots and 3-Manifolds,” MSRI Summer Graduate Program, University of British Columbia/PIMS, Summer 2004

VIGRE Fellowship, University of Illinois at Chicago, 2001-2004

Mathematics “Doc M” Scholarship, Eastern Michigan University, 2000-2001

University Regents Scholarship, Eastern Michigan University, 1999-2000

PROFESSIONAL MEMBERSHIPS

American Mathematical Society