

Eric Michael Samansky

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Citizenship: USA.

Date of Birth: July 15, 1979.

Research Interests: Geometric Measure Theory, Probability Theory, Fractal Geometry, Algebraic Sets.

Education

- **Ph. D. Mathematics**, Rice University, May 2007 (expected). Dissertation Title (working): *Convergence of Gibbs Measures and the Behavior of Shrinking Tubular Neighborhoods of Fractals and Algebraic Sets*. Advisor Robert Hardt.
- **B.S. Mathematics**, Haverford College, May 2002.

Honors and Awards

- **NSF Vigre Fellowship**, Rice University, 2005-2006.
- **Graduate Fellowship**, Rice University, 2002-2007.
- **Graduated with Honors** from the Haverford College Mathematics Department, 2002.
- **Participation in Research Experience for Undergraduates**, (studied Arrangements of Hyperplanes), Northern Arizona University, Summer 2001.
- **21st Annual Geometry Festival Travel Stipend**, University of Pennsylvania, April 2006.
- **30th Annual Summer Symposium in Real Analysis Travel Stipend**, University of North Carolina at Asheville, July 2006.

Teaching Experience

Instructor

- **Calculus II** (sole instructor), Rice University, Summer 2005.
- **Calculus I** (sole instructor), Rice University, Fall 2005.
- **Multivariable Calculus** (sole instructor), Rice University, Summer 2006.

Teaching Assistant

- **TA**, Undergraduate Vigre Research Seminar, 2005-2006.
- **Homework Grader and TA**, Calculus II, Multivariable Calculus, Undergraduate Complex Analysis, Graduate Abstract Algebra, Undergraduate PDEs, 2002-2006.

Training

- **Rice University Math Department Graduate Teaching Seminar**, 2002-2005.

Publications

- *Convergence of Gibbs Measures and the Behavior of Shrinking Tubular Neighborhoods of Fractals and Algebraic Sets*, Ph.D. Thesis: Rice University (in progress).
- *Convergence of Gibbs Measures Associated with Simulated Annealing: The Case of Distance Squared*, Real Analysis Exchange (submitted).

Selected Talks

- *Convergence of Gibbs Measures Associated with Simulated Annealing*, 30th Annual Summer Symposium in Real Analysis, University of North Carolina at Asheville, Summer 2006.
- *Current Research on Convergence of Gibbs Measures with Complicated Simulated Annealing Constraints*, (a series of 3 talks)
Rice University Real and Complex Analysis Research Seminar, Fall 2006.
- *Ramified Transport and Qinglan Xia's Current Research*,
Rice University Current Mathematics Seminar, Fall 2006.
- *Probability Theory and the Central Limit Theorem*,
Rice University Current Mathematics Seminar, Fall 2005.
- *Higher Dimensional Generalizations of the Classical Cauchy-Crofton Formula*,
Rice University Current Mathematics Seminar, Fall 2004.
- *An Introduction to Hausdorff Measure and Fractals*,
Rice University Current Mathematics Seminar, Fall 2003.
- *Arrangements of Hyperplanes and Zaslavsky's Theorem*,
Talk for undergraduates at Northern Arizona University, Summer 2003.

Conferences Attended

- **Joint Mathematics Meetings**, New Orleans, LA, January 5-8, 2007 (expected).
- **Texas Geometry and Topology Conference**, Rice University, Houston, TX, October 27-29, 2006.
- **30th Annual Summer Symposium in Real Analysis**, University of North Carolina at Asheville, Asheville, NC, June 13-17, 2006.
- **21st Annual Geometry Festival**, University of Pennsylvania, Philadelphia, PA, March 31-April 2, 2006
- **Singularities in Analysis, Geometry and Topology**: A Conference Honoring the Retirements of F. Reese Harvey and John C. Polking, Rice University, Houston, TX, November 11-13, 2005.
- **Texas Geometry and Topology Conference**, Rice University, Houston, TX, October 31-November 2, 2003.

Languages

- Native-born English speaker.
- Working knowledge of French.

Professional Memberships

- AMS (2000-present)

Service

- **Organizer**, Real and Complex Analysis Research Seminar, Spring and Fall, 2006.
- **Organizer**, Real Analysis Seminar, Summer and Fall, 2005.
- **Regular Lecturer**, Forms and Currents Seminar, Geometric Measure Theory Seminar, Vigre Seminar on Semi-Riemannian Geometry, 2004-2006.
- **Graduate School Recruitment Talk**, Northern Arizona University, Flagstaff, AZ., Summer 2003.

References

- **Robert Hardt** (hardt@math.rice.edu) (713) 348-3280
Department of Mathematics, Rice University.
- **Michael Wolf** (mwolf@math.rice.edu) (713) 348-6293
Department of Mathematics, Rice University.
- **Dennis D. Cox** (dc Cox@stat.rice.edu) (713) 348-6007
Department of Statistics, Rice University.
- **Tim Cochran** (cochran@math.rice.edu) (teaching) (713) 348-5266
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