

SARAH SCHOTT

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EDUCATION

Duke University

- Ph.D in Mathematics *May 2012*
- M.A in Mathematics *May 2008*
- Dissertation: *TPA: A New Method for Approximate Counting*
- Advisor: Mark Huber

University of Florida

May 2006

- B.S. in Mathematics
- Minor in Women's Studies

EXPERIENCE

Duke University

July 2012 - Present

Assistant Professor of the Practice

- Courses taught: Math 122L (Introductory Calculus II with Applications), Math 111L (Laboratory Calculus I), Math 230 (Probability), Math 216 (Linear Algebra and Differential Equations), Math 771 (Teaching College Mathematics), Math 202 (Multivariable Calculus for Economists), Math 129 (Calculus for Social Sciences)

Duke University

August 2006 - May 2012

Graduate Student Instructor

- Courses taught: Math 112L (Laboratory Calculus II), Math 353 (Ordinary and Partial Differential Equations), Math 105L (Laboratory Calculus and Functions I), Math 122L (Introductory Calculus II with Applications), Math 111L (Laboratory Calculus I), Math 230 (Probability)

Statistical and Applied Mathematical Institute (SAMSI)

September 2008 - May 2009

Graduate Fellow

AWARDS

- L.P. Smith Award for Teaching Excellence in Mathematics Fall 2011 and 2010
- Valedictorian Spring 2006
- Phi Beta Kappa Spring 2005
- Anderson Scholar Fall 2004

PUBLICATIONS

1. M. Huber and S. Schott. Random Construction of Interpolating Sets for High Dimensional Integration. *Journal of Applied Probability*, 51(1): 92-105, 2014. arXiv:1112.3692.
2. M. Huber and S. Schott. Using TPA for Bayesian inference. *Bayesian Statistics 9*. 2010. (with discussions)

3. S. Schott. (2011, April). Girls in Math. *Encompass*, 14-15
4. R. Bar-On, J. Bookman, B. Cooke, D. Hall and S. Schott. (Re)discovering SoTL Through a Fundamental Challenge: Helping Students Transition to College Calculus. *MAA Notes*, in preparation.

SELECTED TALKS AND POSTERS

- *Preparing Graduate Students to Teach Undergraduate Mathematics: A Working Conference*. Joint Mathematics Meetings, Baltimore, MD. January 15, 2014.
- *Monte Carlo Algorithms*. University of Southern California. February 14, 2012.
- *Bringing Students into the Peleton: Leveling the Playing Field at Highly Selective Universities*. California State University, LA. January 17, 2012.
- *TPA: A New Method for Approximate Counting*. Joint Mathematics Meetings, Boston, MA. January 6, 2012.
- *Speeding Up the Product Estimator with Random Temperatures*. 4th Annual Graduate Student Probability Conference, Duke University. April 30, 2010.
- *Improving the Product Estimator Using Random Temperatures*. Ninth Valencia International Meeting on Bayesian Statistics, Valencia, Spain. June 2010.
- *Speeding Up the Product Estimator with Random Temperatures*. Sequential Monte Carlo Transition Workshop, SAMSI. November 9, 2009.
- *Computational Complexity*. Graduate Faculty Seminar, Duke University. March 20, 2009.

GRANT SUPPORT

- MAA Tensor Women in Mathematics Grant *Southeastern Conference for Undergraduate Women in Mathematics* March 13, 2015 - May 31, 2016
- NSF IUSE Award Number 1432381 *Improving the Preparation of Graduate Students to Teach Undergraduate Mathematics* August 15, 2014 - August 14, 2017
- NSF DUE Award Number 1258576 *Preparing Graduate Students to Teach Undergraduate Mathematics: A Working Conference* October 1, 2012 - February 28, 2014

CONFERENCE ORGANIZATION

- Co-organizer of *Southeastern Conference for Undergraduate Women in Mathematics*. Duke University, November 7-8, 2015.
- Organizing Committee Member of *Southeastern Conference for Undergraduate Women in Mathematics*. Clemson University, November 15-16, 2014.
- Co-organizer of *Preparing Graduate Students to Teach Undergraduate Mathematics: A Working Conference*. Harvard University, June 12-13, 2013.

SERVICE TO THE UNIVERSITY AND DEPARTMENT

- Associate Director of Undergraduate Studies January 2014 - present
- Department representative for the Arts and Science Council February 2014 - present
- Pre-major advisor Fall 2013 - present
- Department Facebook page creator and manager July 2013 - present

- Math Mentoring coordinator Fall 2012 - present
- FEMMES Capstone faculty volunteer February 21, 2015
- Faculty Research Mentor, Duke Thompson Writing Program, June 2015 - present
- Math Slam organizer Fall 2012 - present
- Calculus Committee member Fall 2010 - present
- Lab Calculus course coordinator Fall 2012 - present