

Sneha Dey Subramanian

PERSONAL INFORMATION

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EDUCATION AND TRAINING

2014- University of California, Irvine
Visiting Assistant Professor
Department of Mathematics

2009-2014 University of Pennsylvania
Doctor of Philosophy in Mathematics
Doctoral Advisor: Robin Pemantle

2007-2009 Indian Statistical Institute, Kolkata
Masters in Statistics
Specialization: Applied Statistics and Data Analysis

2004-2007 St. Xavier's College, Kolkata
Bachelor of Science with Major in Mathematics, and Minors in Statistics and
Computer Science

PUBLICATIONS

2014 Zeros of a random analytic function approach perfect spacing
under repeated differentiation
with Robin Pemantle, *Submitted*. Arxiv link:
<http://arxiv-web3.library.cornell.edu/abs/1409.7956?context=math.CV>

2012 On the distribution of critical points of a polynomial
Electronic Communications in Probability
This paper proves that if points Z_1, Z_2, \dots are chosen independently and
identically using some measure μ from the unit circle in the complex plane,
with $p_n(z) = (z - Z_1)(z - Z_2)\dots(z - Z_n)$, then the empirical distribution of the
critical points of p_n converges weakly to μ .

AWARDS

2009-2014 Benjamin Franklin Fellowship, University of Pennsylvania
Fellowship covering tuition and stipend for five years as a graduate student in
the Mathematics department.

2012-2013 Herbert S. Wilf Memorial Prize
Prize awarded in recognition of outstanding research and communication.

Summer 2012 Good Teaching Award
Award received for Math 170 (Instructor).

Fall 2010 Good Teaching Award
Award received for Math 508 (Teaching Assistant).

TEACHING EXPERIENCE

Winter 2015 Instructor of Record
Math 130A (Probability and Stochastic Processes)

Fall 2014 Math 2B (Single Variable Calculus) and Math 130A (Probability and Stochastic Processes)

Summer 2012 Math 170 (Ideas in Mathematics): A course for non-math majors, with topics ranging from logic, sets, number theory, probability, cryptography, and their relevance to contemporary science and society.

Spring 2011 Teaching Assistant
Math 103 (Introduction to Calculus): A course that introduces concepts and methods of calculus for students with little or no previous calculus experience.

Fall 2010 Math 508 (Advanced Analysis I): A course for math majors on analysis on Euclidean spaces.

Fall 2011 & 2013 Grader
Math 546 (Probability Theory): A course for advanced math or stat majors as well as beginning Ph.D. students of mathematics or statistics.

Spring 2012 & 2014 Math 547 (Stochastic Processes): A course for advanced math or stat majors as well as beginning Ph.D. students of mathematics or statistics.

TALKS

December 2014 Zeros of the derivatives of random polynomials and random entire functions
Southern California Probability Symposium, Institute for Pure and Applied Mathematics, UCLA.

October 2014 Random zero sets under repeated differentiation of an analytic function
Probability Seminar, University of California, Irvine.

March 2014 Random zero sets under repeated differentiation of an analytic function
UVA Probability Seminar, University of Virginia.

November 2013 Behavior under differentiation operator of zero sets of random analytic functions
Twelfth Northeast Probability Seminar, City University of New York.

October 2013 Random zero sets under repeated differentiation

Combinatorics and Probability Seminar, University of Pennsylvania.

October 2012 Polynomials, Zeros, Critical Points and Probability
Probability Seminar, University of California, Berkeley.

October 2012 Polynomials, Zeros, Critical Points and Probability
Combinatorics and Probability Seminar, University of Pennsylvania.

September 2011 Candidate problems and more
Pizza Seminar, University of Pennsylvania.

OTHER TEACHING DUTIES

2013 Math/Maple Online Help
Provided help in solving problems and understanding concepts weekly at an online discussion board and forum for students of all the calculus courses.

2011-2012 Master TA
Trained new teaching assistants in the mathematics department.

2011-2012 Coordinator of Penn Undergraduate Math Mentorship Program
Organized a program that pairs up undergraduate students with graduate students of like mathematical interests (mentors) to stimulate learning and research.

2010-2012 Mentor for Penn Undergraduate Math Mentorship Program
Mentored two undergraduate students during two academic years.

Fall 2011 Sunday Night Reviewer for Math 115 (Calculus II with Probability and Matrices)
Conducted a review session every Sunday night for the course, which included helping students with problems and conceptual questions.

CONFERENCES AND WORKSHOPS

October 2013 Midwest Probability Colloquium
Northwestern University, Evanston, IL

July 2012 Cornell Probability Summer School
Cornell University, Ithaca, NY

April 2012 Graduate Student Probability Conference
Georgia Tech University, Atlanta, GA

November 2011 Tenth Northeast Probability Seminar
New York University, New York, NY

November 2010 Ninth Northeast Probability Seminar
City University of New York, New York, NY

December 26, 2014