Anirban Basak Graduate Student

Graduate Student Department of Statistics, Stanford University Email: abc@university.edu Date: December, 2013

Personal Details	Born: January 30, 1986, Kolkata, India Nationality: Indian Gender: Male
Academic Degrees	Stanford University, Stanford, CA, USA Ph.D. in Statistics, September 2009- present Thesis Topic: <i>Probability models on large random graphs and matrices</i> Thesis Advisor - Prof. Amir Dembo
Indian Statistical Institute, Kolkata, India	
	• Master of Statistics (<i>with Distinction</i>), July 2007-May 2009 Specialization - Mathematical Statistics and Probability Dissertation Topic: <i>Large dimensional Random Matrices</i> Advisor: Prof. Arup Bose
	Bachelor of Statistics (Honors with Distinction), July 2004-May 2007
Awards and Fellowships	 Melvin and Joan Lane endowed Stanford Graduate Fellowship, Stanford University, September 2009- August 2012. ISIAA Mrs. M. R. Iyer Gold Medal for outstanding performance in Master of Statistics, Indian Statistical Institute, Kolkata, March 2010. M.A./M.Sc. Scholarship, National Board of Higher Mathematics, June 2007-May 2009. J. M. Sengupta Gold Medal award for outstanding performance in Bachelor of Statistics, Indian Statistical Institute, Kolkata, February 2008.
PUBLICATIONS AND PREPRINTS	 Basak, A., Bose, A., and Mukherjee, S.,S., "Limiting spectral distribution of a class of Hankel type random matrices". Submitted.
	2. Basak, A. and Dembo, A., "Ferromagnetic Ising measures on large locally tree- like graphs". Submitted.
	3. Basak, A., and Dembo, A., "Limiting spectral distribution of sum of unitary and orthogonal matrices". To appear, Electronic Communications in Probabil- ity.
	4. Basak, A., Bose, A., and Sen, S., "Limiting Spectral Distribution of Sample Autocovariance Matrices". To appear, Bernoulli.
	5. Basak, A. and Bose, A., "Balanced random Toeplitz and Hankel Matrices". Electronic Communications in Probability, 15, 134-148.
	6. Basak, A. and Bose, A., "Limting Spectral Distribution of Some Band Matri- ces". Periodica Mathematica Hungarica, 63, 1, 113-150.

Ongoing Research	 Basak, A., and Rudelson, M., "Limiting spectral distribution of sparse directed Erdős-Rényi graphs". In preparation: writing in progress.
	2. Basak, A., "Ferromagnetic Potts models on large locally tree-like graphs". In preparation.
	3. Basak, A., and Basu, R., "Critical probability in a random oriented percolation model on \mathbb{Z}^{2^n} . In preparation.
	4. Basak, A., and Mukherjee, S., "Ising model on hypercube". In preparation.
TEACHING EXPERIENCE	 Teaching Assistant for Stats 116, Summer 2013, Stanford University. Undergraduate level probability course covering discrete and continuous probability spaces, random variables and their expectations, independence, conditional probability, law of large numbers, central limit theorem. Teaching Assistant for Stats 310B/Math 230B, Winter 2013, Stanford University. Graduate level probability course covering conditional expectations, discrete time Martingales, and Markov chains on countable state space. Teaching Assistant for Stats 310A/Math 230A, Fall 2011, Fall 2012, Stanford University. Graduate level Probability course covering Measure theory, independence, weak and strong laws of large numbers, weak convergence, characteristic functions, central limit theorems. Teaching Assistant for Stats 310C/Math 230C, Spring 2011, Stanford University. Graduate level Probability course covering continuous time stochastic processes, continuous time Martingales and Markov chains, Brownian motion. Teaching Assistant for Stats 218, Spring 2010, Stanford University.
Refereeing	Probability Theory and Related Fields, Electronic Journal of Probability.
Talks	 Probability and Statistics Seminar, Dept. of Mathematics, USC, December 2013. Probability Seminar, Dept. of Mathematics, UCLA, October 2013. Probability Seminar, Dept. of Statistics, University of California, Berkeley, September 2013. 36th Conference on Stochastic Processes and Their Applications, University of Colorado Boulder, July 2013. Probability Seminar, Dept. of Statistics and Operations Research, UNC Chapel Hill, September 2012. Probability Seminar, Dept. of Mathematics, MIT, September 2012. Probability Seminar, Dept. of Mathematics, MIT, September 2012. Probability Seminar, Dept. of Mathematics Seminar, Dept. of Mathematics, New York University, September 2012. Theoretical Statistics and Mathematics Unit seminar, Indian Statistical Institute, Kolkata, August 2012. Probability Seminar, Dept. of Statistics, Stanford University, June, 2012. Theoretical Statistics and Mathematics Unit seminar, Indian Statistical Institute, Delhi, August 2009. PCM International Symposium on Statistics, Indian Statistical Institute, Kolkata, July 2009.

References

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Dr. Eyal Lubetzky Senior Researcher, Theory Group of and Microsoft Research, Redmond http://research.microsoft.com/enus/um/people/eyal/ Email: abc@university.edu

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