

ABISHEK SANKARARAMAN

INTERESTS	Machine Learning, Multi-Agent Systems, Random Graphs and Social Networks, Randomized Algorithms, Distributed Algorithms	
EDUCATION	The University of Texas at Austin <i>Ph.D. in Electrical and Computer Engineering</i> • Advisor: François Baccelli	Sep. 2013 - Sep 2019
	Indian Institute of Technology, Madras <i>B.Tech in Electrical Engineering</i> <i>M.Tech in Communication Systems and Signal Processing</i> <i>Minor in Mathematics</i>	Aug 2008 - May 2013
WORK EXPERIENCE	University of California, Berkeley Postdoctoral Researcher, Advisor: Venkat Anantharam	Berkeley, CA Sep 2019 - Present
	Simons Center for Network Mathematics Graduate Research Assistant. Advisor: François Baccelli	Austin, TX Jan 2014-Present
	Huawei Research Labs Data Science Intern. Manager: Hui Zang	Santa Clara, CA May - Aug, 2015
PUBLICATIONS	<i>Social Learning in Multi-Agent Multi-Armed Bandit Problem</i> A. Sankararaman, Ayalvadi Ganesh and Sanjay Shakkottai ACM SIGMETRICS 2020 (Accepted to Appear)	
	<i>ComHapDet: A Spatial Community Detection Algorithm for Haplotype Assembly</i> A. Sankararaman, Haris Vikalo and François Baccelli ACM CNB-MAC 2019. Minor Revision in BMC Genomics.	
	<i>Interference Queuing Networks on Grids</i> A. Sankararaman, François Baccelli and Sergey Foss Annals of Applied Probability, October 2019, Vol. 29, No. 5, 2929-2987.	
	<i>Community Detection on Euclidean Random Graphs</i> A.Sankararaman, Emmanuel Abbe and François Baccelli ACM-SIAM Symposium on Discrete Algorithms (SODA), 2018. Minor Revision at IMA Information and Inference, Extended Abstract in Allerton, 2017.	
	<i>Spatial Birth-Death Wireless Networks</i> A.Sankararaman and François Baccelli IEEE Transactions on Information Theory, June 2017, 63 (6), 3964-3982. Extended Abstract in Allerton 2016.	
	<i>Performance-Oriented Association in Large Cellular Networks with Technology Diversity</i> A.Sankararaman, Jeong woo Cho and François Baccelli International Teletraffic Congress (ITC), 2016.	
	<i>CSMA k-SIC: A class of distributed MAC protocols and their performance evaluation</i> A.Sankararaman and François Baccelli IEEE Conference on Computer Communications (INFOCOM), 2015.	
UNDER SUBMISSION	<i>The Gossiping Insert-Eliminate Algorithm for Multi Agent Multi Armed Bandits</i> Ronshee Chawla*, A. Sankararaman*, Ayalvadi Ganesh and Sanjay Shakkottai	

* Equal Contribution

TEACHING AND MENTORSHIP	Teaching Assistant, <i>Advanced Probability - Inference and Learning</i>	Spring 2018
	Teaching Assistant, <i>Probability and Stochastic Processes (Graduate)</i> Duties include holding office hours, setting homework and exam problems.	Fall 2018
	Undergraduate Student Mentor - <i>Mixing Times for Random Walks on Groups</i> Research supervisor for an undergraduate student project in the Mathematics Department	Spring 2018
LEADERSHIP	<ul style="list-style-type: none"> WNCG Student Leadership Award 	2018.
TALKS	<ul style="list-style-type: none"> <i>Interference Queuing Networks on Grids</i> Talk at INFORMS Applied Probability Society, Brisbane, Australia. 	Jul 2019
	<ul style="list-style-type: none"> Talk at UNC-Chapel Hill Probability Seminar, Chapel Hill, NC. Talk at Austin-TAMU Probability Seminar, Austin, TX. Talk at Heriot-Watt University, Edinburgh UK 	Feb 2019 May 2018 Feb 2018
	<ul style="list-style-type: none"> <i>Community Detection on Euclidean Random Graphs</i> Talk at MIT Research Laboratory of Electronics, Cambridge MA Talk at University of Massachusetts, Amherst, MA Talk at Indian Institute of Technology Madras, Chennai Talk at ACM-SIAM SODA Conference, New Orleans, LA Talk at The University of Texas at Austin 	Dec 2018 Dec 2018 Jan 2018 Jan 2018 May 2017
	<ul style="list-style-type: none"> <i>Spatial Birth Death Process on the Continuum</i> Talk at Indian Institute of Technology Madras, Chennai Talk at Princeton University Talk at Allerton Conference on Communication Control and Computing Talk at INRIA - Ecole Normale Supérieure, Paris 	Jan 2017 Nov 2016 Oct 2016 Sep 2016
	<ul style="list-style-type: none"> <i>Technology Diversity - A Framework for Base Station Association in Large Cellular Networks</i> Talk at 28th, International Teletraffic Congress (ITC-28), Würzburg, Germany 	Sep 2016
	<ul style="list-style-type: none"> <i>CSMA k-SIC: A Class of MAC Protocols</i> Talk at IEEE INFOCOM, Hong Kong 	May 2015
PROFESSIONAL SERVICES	<ul style="list-style-type: none"> Organizer for Random Structures Seminar at UT Austin Math dept. 	2017-2019.
	<ul style="list-style-type: none"> Reviewer for IEEE ISIT (International Symposium on Information Theory) Reviewer for Queueing Systems Journal Reviewer for ACM-SIAM SODA (Symposium on Discrete Algorithms) Reviewer for IEEE FOCS (Foundations of Computer Science) Reviewer for SpaSWIN (Spatial Stochastic Models for Wireless Networks) Reviewer for Performance Evaluation Reviewer for IEEE Transactions on Information Theory Reviewer for IEEE Transactions on Wireless Communications 	2019 2019 2019 2018 2018 2017 2016-2019 2015-2019
REFERENCES	<p>François Baccelli Simons Chair, Dept of ECE and Mathematics, The University of Texas at Austin, Austin, TX, USA. baccelli@math.utexas.edu</p>	
	<p>Sanjay Shakkottai Department of ECE, The University of Texas at Austin, Austin, TX, USA. shakkott@austin.utexas.edu</p>	
	<p>Sergey Foss, School of Mathematical Sciences, Heriot-Watt University, Edinburgh EH14 4AS, UK. s.foss@hw.ac.uk</p>	