Kyeongsik Nam

Contact Information	1020 Evans Department of Mathematics		
	University of California Berkeley, CA 94720, USA		
	ksnam@math.berkelev.edu		
	http://math.berkeley.edu/~ksnam		
Research Interests	Probability, statistical mechanics, random graphs, and stochastic differential equations.		
Education	University of California, Berkeley	2015 - Present	
	Ph.D. Candidate in Mathematics		
	• Advisor : Fraydoun Rezakhanlou		
	Seoul National University	2009 - 2015	
	B.S. in Mathematics, B.A. in Economics		
	• Summa Cum Laude		
	• (Mandatory) Military service (Apr. 2011 - Jan. 2013)		
Preprints and Publications	1. (with S. Ganguly) Sub-critical exponential random graphs: concentration of measure and some applications, (2019). Preprint available at arXiv:1909.11080		
	 Large deviations and localization of the microcanonical ensembles given by multiple constraints, (2018). Submitted. Preprint available at arXiv:1809.04138. 		
	3. <i>Hypoelliptic diffusions with singular drifts</i> , (2018). Submitted. Preprint available at arXiv:1806.10172.		
	4. Stochastic differential equations with critical drifts, (2018). Submitted. Preprint available at arXiv:1802.00074.		
	5. (with B. Gil, J. Han, T. Kim, R. Koo, B. Lee, J. Lee, H. Park, and P. Park) <i>Frobenius numbers of Pythagorean triples</i> , International Journal of Number Theory 11 (2015), 613-619.		
Honors and Awards	James H. Simons Fellowship, University of California, Berkeley	2018	
	Scholarship for Ph.D. Students, Korea Foundation for Advanced Studies	2015 - Present	
	Gold Medal, National Mathematics Competition for University Students The Presidential Science Scholarship for Undergraduate Students	2014 2000 2015	
	Gold Medal, 49th International Mathematical Olympiad	2009 - 2013 2008	
Talks	Equivalence of ensembles for the microcanonical ensemble with several constraints		
	- Korea Institute for Advanced Study	May. 2019	
	The structure of Gibbs measure with low complexity Probability / DDE cominan, University of California, Barbalay	E.b. 9010	
	- Probability/PDE seminar, University of Camornia, Berkeley Large deviations and localization of the microcanonical ensembles given by mult	inle constraints	
	- Probability/PDE seminar. University of California. Berkeley	Sep. 2018	
	- Probability/PDE seminar, University of California, Berkeley	Aug. 2018	
	Elliptic and hypoelliptic diffusions with singular drifts		
	- Korea University	May. 2018	
	- Korea Institute for Advanced Study	May. 2018	
	- Seoul National University	May. 2018	
	Hypoelliptic diffusions with singular drifts - Probability/PDE seminar, University of California, Berkeley	Apr. 2018	

	Invariant measures and (discrete) monlinear Schrödinger equations - Probability/PDE seminar, University of California, Berkeley	Feb. 2018
	Stochastic differential equations with critical drifts - Probability/PDE seminar, University of California, Berkeley	Sep. 2017
	Weak solutions to SDE with distributional drift - Probability/PDE seminar, University of California, Berkeley	Feb. 2017
	Malliavin's proof of Hörmander's theorem - Probability/PDE seminar, University of California, Berkeley	Mar. 2016
	Frobenius numbers of Pythagorean triplesMeetings of Young Number Theorists, South Korea	Jul. 2014
Teaching	Graduate Student Instructor, University of California, Berkeley	
Experiences	- Math 53 (Multivariable Calculus)	Fall 2019
	- Math 53 (Multivariable Calculus)	Spring 2019
	- Math 53 (Multivariable Calculus)	Fall 2018
	- Math 53 (Multivariable Calculus)	Fall 2017
	- Math 53 (Multivariable Calculus)	Spring 2017
	- Math 16A (Analytic Geometry and Calculus)	Fall 2016
	- Math 54 (Linear Algebra and Differential Equations)	Spring 2016
	- Math 1A (Calculus)	Fall 2015
Professional Activities	Observer , 51st International Mathematical Olympiad - Coordinator for Problem 6 on South Korea's behalf	2010
	Main Academic Staff, Korean Mathematical Society - Problem reviewer and grader for Korean Mathematical Olympiad - Teaching assistant for Korean Mathematical Olympiad Summer and Wir	2009 - 2011 ater camp