PERSONAL INFORMATION	U.S. Citizen. Birthdate: September 1998 (Oakland, CA) Email: yujin.kim@courant.nyu.edu		
EDUCATION	Courant Institute, NYU, New York, NY.August 2019 - PresentPh.D, Mathematics.Advised by Eyal Lubetzky and Ofer Zeitouni.		
	Columbia University, New York, NY.August 2015 - May 2019Bachelor of Arts, Mathematics (with honors).Senior thesis advised by Ivan Corwin.		
PREPRINTS AND PUBLICATIONS	 Preprints 1. The shape of the front of multidimensional branching Brownian motion, with O. Zeitouni, submitted (arXiv). 		
	2. KPP traveling waves in the half-space , with J. Berestycki, C. Graham, and B. Mallein, submitted (arXiv).		
	 Publications 3. On level line fluctuations of SOS surfaces above a wall, with P. Caddeo and E. Lubetzky, Forum of Mathematics, Sigma, to appear (arXiv). 		
	 4. The extremal point process of branching Brownian motion in R^d, wit J. Berestycki, E. Lubetzky, B. Mallein, and O. Zeitouni, Annals of Probability 52(3), 955-982. 5. The maximum of branching Brownian motion in R^d, with E. Lubetzky an O. Zeitouni, Annals of Applied Probability 33 (2023), no. 2, 1515–1568. 6. Lower tail of the half-space KPZ Equation, Stochastic Process. Appl. 144 (2021) 365-406. 		
	 A refined conjecture for the variance of Gaussian primes across sec- tors, with R.C. Chen, J. D. Lichtman, S. J. Miller, A. Shubina, S. Sweitzer, E. Waxman, E. Winsor, and J. Yang, Experimental Mathematics, pages 1–21, 05 2020. 		
	 Spectral statistics of non-Hermitian random matrix ensembles, with R. C. Chen, J. D. Lichtman, S. J. Miller, A. Shubina, and S. Sweitzer, Random Matrices: Theory and Applications, 8(2):1950005, 2019. 		
	9. Anomalous primes and the elliptic Korselt criterion, with L. Babinkos- tova, J.C. Bahr, E. Neyman, and G. K. Taylor, Journal of Number Theory, 201:108–123, 2019.		
	 Lower-order biases in the second moments of Dirichlet coefficients in families of L-functions, with M. Asada, R. C. Chen, E. Fourakis, A. Kwon, J. D. Lichtman, B. Mackall, S. J. Miller, E. Winsor, K. Winsor, J. Yang, and K. Yang, Experimental Mathematics, 0(0):1–26, 2021. 		
	 Limiting distributions in generalized Zeckendorf decompositions, with G. Carty, A. Gueganic, S. J. Miller, A. Shubina, S. Sweitzer, E. Winsor, and J. Yang, The Fibonacci Quarterly, 57(2):109–125, 2019. 		
	 On orders of elliptic curves with fixed <i>j</i>-Invariants, with L. Babinkos- tova, J.C. Bahr, E. Neyman, and G. K. Taylor, Rose-Hulman Undergraduate Mathematics Journal, 19(1): Article 2, 2019. 		

SELECTED AWARDS	NSF Graduate Research Fellowship (2019-2024).		
AWAIDS	Henry M. MacCracken Fellowship (2019-2024): full PhD sup University for five years.	pport at New York	
	John Dash Van Buren Jr. Prize in Mathematics (2019): awar in the graduating class of Columbia University.	rded to one student	
TALKS AND PRESENTA- TIONS	 Seoul National University, Probability Seminar, Jun. 2024. University of Chicago, Probability and Statistical Physics Seminar, May 2024. University of Pennsylvania/Temple University Probability Seminar, Apr. 2024. Los Angeles Probability Forum, Apr. 2024. Hong Kong University of Science and Technology, Probability Seminar, Jan. 2024. KTH Royal Institute of Technology, Probability Seminar, Dec. 2023. Northeast Probability Seminar, Nov. 2023. University of Maryland, Probability Seminar, Oct. 2023. University of Oxford, Probability Seminar, Jun. 2023. Columbia University, Columbia Probability Workshop, May 2023. Brin Mathematics Research Center, Workshop on Branching Processes and Reaction-Diffusion Equations, Mar. 2023. Northeast Probability Seminar, Nov. 2021. SLMath (formerly MSRI), Programs Associates' Short Talks, Sep. 2021. Stanford University, Student Probability Seminar, Apr. 2021. Joint Mathematics Meetings, AMS Special Session on Discrete Neural Networking, Jan. 2018 (w/ Eric Winsor). Joint Mathematics Meetings, Undergraduate Poster Session, Jan. 2018. Maine-Quebec Number Theory Conference, Oct. 2017 (w/ Shannon Sweitzer). Joint Mathematics Meetings, Undergraduate Poster Session, Jan. 2017. INTEGERS Conference, Oct. 2016. 		
ACADEMIC PROGRAMS	Brin Mathematics Research Center Speaker at the workshop "Branching processes and reaction-diffusion Centre de Recherches Mathématiques	Spring 2022	
	Participant in the workshop "Branching systems, reaction-diffusion e ulation models." Research presented in the talk "Limits for multic by Ofer Zeitouni.	limensional BBM"	
	Simons Laufer Mathematical Sciences Institute (SLMath,	Fall 2021	
	Program associate at the MSRI for "Universality and Integrability Theory and Interacting Particle Systems."		
	Virginia Integrable Probability Summer School Participant.	Summer 2019	
	Michigan Summer School on Random Matrices Participant.	Summer 2018	
	SMALL REU at Williams College Research Experience for Undergraduates	Summer 2017	

	Participant of Steven J. Miller's "Number Theory and Probability group.	Theory" research
	REU CAD at Boise State University <i>Research Experience for Undergraduates</i> Participant of Liljana Babinkostova's "Number Theory, Elliptic Curraphy" research group.	Summer 2016 eves, and Cryptog-
OUTREACH AND TEACHING EXPERIENCE	Courant Student Probability Seminar Organizer	2021-Present
	Courant Graduate Student and Postdoc Seminar Organizer.	2021-2022
	MSRI Program Associates' Seminar Organizer.	2021
	Courant Institute of Mathematical Sciences	2022 - Present
	 Recitation Leader MATH-GA.1420 (Intro. To Math Analysis II) for Aaditya Rangan MATH-UA.0397 (Large Deviations) for Gerard Ben Arous MATH-UA.0233 (Theory of Probability) for Lai-Sang Young MATH-UA.0233 (Theory of Probability) for Elizabeth Stepp 	Spring 2024 Fall 2023 Spring 2023 Fall 2022
	Courant Institute of Mathematical Sciences Grader	2022 - Present
	- MATH-GA.2110 (Linear Algebra I) for Michael Lindsey	$Spring \ 2022$
	Mathematics Department, Columbia University Teaching Assistant	2016 - 2019
	- MATH GU4155 (Probability Theory) for Julien Dubedat	Spring 2019
	- MATH GU4042 (Modern Algebra II) for Walter Neumann	Spring 2018
	- MATH GU4042 (Modern Algebra II) for Yihang Zhu	Fall 2017
	- MATH UN2010 (Linear Algebra) for Eric Urban	Spring 2017
	- MATH UN1102 (Calculus II) for Noah Arbesfeld	Fall 2016
OTHER	Design: Young Adult Winner of the <u>Reimagining Brooklyn Bridge</u> of (with Shannon Hui and Kwans Kim), an international design composed Alen Institute and the New York City Council. Check out our proposed	etition by the Van

here!