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 – Present Ph.D, Mathematics.
	Columbia University, New York, NY.August 2015 - May 2019Bachelor of Arts, Mathematics (with honors).Senior thesis advised by Ivan Corwin.
PREPRINTS AND PUBLICATIONS	<ul> <li>Preprints</li> <li>1. The shape of the front of multidimensional branching Brownian motion, with O. Zeitouni, submitted (arXiv).</li> </ul>
	2. On level line fluctuations of SOS surfaces above a wall, with P. Caddeo and E. Lubetzky, submitted (arXiv).
	3. <b>KPP traveling waves in the half-space</b> , with J. Berestycki, C. Graham, and B. Mallein, submitted (arXiv).
	Publications
	4. The extremal point process of branching Brownian motion in $\mathbb{R}^d$ , with J. Berestycki, E. Lubetzky, B. Mallein, and O. Zeitouni, Annals of Probability, to appear (arXiv).
	<ol> <li>The maximum of branching Brownian motion in R<sup>d</sup>, with E. Lubetzky and O. Zeitouni, Annals of Applied Probability 33 (2023), no. 2, 1515–1568.</li> </ol>
	<ol> <li>Lower tail of the half-space KPZ Equation, Stochastic Process. Appl. 142 (2021) 365-406.</li> </ol>
	<ol> <li>A refined conjecture for the variance of Gaussian primes across sectors, 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.</li> </ol>
	8. 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.
	<ol> <li>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.</li> </ol>
	<ol> <li>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.</li> </ol>
	<ol> <li>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.</li> </ol>

SELECTED AWARDS	NSF Graduate Research Fellowship (2019-2024).		
Tivilit25	Henry M. MacCracken Fellowship (2019-2024): full Ph University for five years.	nD support at New York	
	John Dash Van Buren Jr. Prize in Mathematics (2019) in the graduating class of Columbia University.	: awarded to one student	
TALKS AND PRESENTA- TIONS	<ul> <li>University of Chicago, Probability and Statistical Physic</li> <li>University of Pennsylvania/Temple University Probabilit</li> <li>Los Angeles Probability Forum, Apr. 2024.</li> <li>Hong Kong University of Science and Technology, Probability Semina</li> <li>KTH Royal Institute of Technology, Probability Semina</li> <li>Northeast Probability Seminar, Nov. 2023.</li> <li>University of Maryland, Probability Seminar, Oct. 2023</li> <li>University of Oxford, Probability Seminar, Jun. 2023.</li> <li>Columbia University, Columbia Probability Workshop, I</li> <li>Brin Mathematics Research Center, Workshop on Branch Diffusion Equations, Mar. 2023.</li> <li>Northeast Probability Seminar, Nov. 2021.</li> <li>SLMath (formerly MSRI), Programs Associates' Short T.</li> <li>Stanford University, Student Probability Seminar, Apr.</li> <li>Joint Mathematics Meetings, AMS Special Session on E ing, Jan. 2018 (w/ Eric Winsor).</li> <li>Joint Mathematics Meetings, Undergraduate Poster Ses</li> <li>Maine-Quebec Number Theory Conference, Oct. 2017 (</li> <li>Joint Mathematics Meetings, Undergraduate Poster Ses</li> <li>INTEGERS Conference, Oct. 2016.</li> </ul>	<ul> <li>University of Chicago, Probability and Statistical Physics Seminar, May 2024.</li> <li>University of Pennsylvania/Temple University Probability Seminar, Apr. 2024.</li> <li>Los Angeles Probability Forum, Apr. 2024.</li> <li>Hong Kong University of Science and Technology, Probability Seminar, Jan. 2024.</li> <li>KTH Royal Institute of Technology, Probability Seminar, Dec. 2023.</li> <li>Northeast Probability Seminar, Nov. 2023.</li> <li>University of Maryland, Probability Seminar, Jun. 2023.</li> <li>University of Oxford, Probability Seminar, Jun. 2023.</li> <li>Columbia University, Columbia Probability Workshop, May 2023.</li> <li>Brin Mathematics Research Center, Workshop on Branching Processes and Reaction-Diffusion Equations, Mar. 2023.</li> <li>Northeast Probability Seminar, Nov. 2021.</li> <li>SLMath (formerly MSRI), Programs Associates' Short Talks, Sep. 2021.</li> <li>Stanford University, Student Probability Seminar, Apr. 2021.</li> <li>Joint Mathematics Meetings, AMS Special Session on Discrete Neural Networking, Jan. 2018 (w/ Eric Winsor).</li> <li>Joint Mathematics Meetings, Undergraduate Poster Session, Jan. 2018.</li> <li>Maine-Quebec Number Theory Conference, Oct. 2017 (w/ Shannon Sweitzer).</li> <li>Joint Mathematics Meetings, Undergraduate Poster Session, Jan. 2017.</li> </ul>	
ACADEMIC PROGRAMS	Brin Mathematics Research Center Speaker at the workshop "Branching processes and reaction-d	Spring 2023 liffusion equations."	
	Centre de Recherches Mathématiques Participant in the workshop "Branching systems, reaction-diffu ulation models." Research presented in the talk "Limits for a by Ofer Zeitouni.	<b>Spring 2022</b> usion equations, and pop- multidimensional BBM"	
	Simons Laufer Mathematical Sciences Institute (SLMath, formerly MSRI) Fall 2021		
	Program associate at the MSRI for "Universality and Integral Theory and Interacting Particle Systems."	bility in Random Matrix	
	<b>Virginia Integrable Probability Summer School</b> Participant.	Summer 2019	
	Michigan Summer School on Random Matrices Participant.	Summer 2018	
	<b>SMALL REU at Williams College</b> <i>Research Experience for Undergraduates</i> Participant of Steven J. Miller's "Number Theory and Proba	Summer 2017 ability Theory" research	

group.

	<b>REU CAD at Boise State University</b> Research Experience for Undergraduates Participant of Liljana Babinkostova's "Number Theory, Elliptic Cur	Summer 2016 ves, and Cryptog-	
OUTREACH AND	raphy" research group. Courant Student Probability Seminar Organizer	2021–Present	
TEACHING EXPERIENCE	Courant Graduate Student and Postdoc Seminar Organizer.	2021-2022	
	MSRI Program Associates' Seminar Organizer.	2021	
	Courant Institute of Mathematical Sciences	2022 – Present	
	<ul> <li>MATH-GA.1420 (Intro. To Math Analysis II) for Aaditya Rangan</li> <li>MATH-UA.0397 (Large Deviations) for Gerard Ben Arous</li> </ul>	Spring 2024 Fall 2023	
	<ul> <li>MATH-UA.0233 (Theory of Probability) for Lai-Sang Young</li> <li>MATH-UA.0233 (Theory of Probability) for Elizabeth Stepp</li> </ul>	Spring 2023 Fall 2022	
	Courant Institute of Mathematical Sciences	2022 - Present	
	Grader - 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 MATH UN2010 (Linear Algebra) for Frie Urban	Fall 2017 Spring 2017	
	- MATH UN1102 (Calculus II) for Noah Arbesfeld	Fall 2016	
	Foothill Math Tournament	2014 - 2019	
	- Founded an annual math tournament at Foothill High School in hopes of raising math enthusiasm on campus.		
	- Wrote problems, managed advertisement and publicity teams, and ships from Wolfram Research, Texas Instruments, and Art of Problem	l secured sponsor- em Solving.	
	<b>Pi Math Contest</b> <i>Test Committee</i> Problem writer for the Pi Math Contest.	2016	
	AlphaStar Academy	2015	
	Instructor Taught courses in olympiad-style math for the AlphaStar Academy	math program.	
	Thomas Hart Middle School Mathcounts Program Volunteer, Head Coach Head coach of a middle school Mathcounts program. Croated an or	2013 – 2015	
	wrote handouts and problem sets, and lectured weekly.	Smer curriculuill,	
OTHER			

OTHERDesign: Young Adult Winner of the Reimagining Brooklyn Bridge design competition<br/>(with Shannon Hui and Kwans Kim), an international design competition by the Van<br/>Alen Institute and the New York City Council. Check out our proposal/press coverage

## here!

**Computer Languages:** Mathematica, IAT<sub>E</sub>X, C++, Java, Python **Human Languages:** English (native), Korean (basic)