Young Joon Kim

Contact Information	<i>E-mail:</i> yjkimnada (at) gmail (dot) com <i>Phone:</i> (917) 301-1413 <i>WWW:</i> yjkimnada.github.io		
Research Interests	Computational neuroscience, neural encoding/decoding, reinforcement learning, statistics for health- care policy, history of medicine and healthcare		
Education	Harvard Medical School, Boston, MA		
	M.D. Candidate (expected graduation date: May 2026)		
	University of Oxford, Oxford, UK		
	M.Sc. in Clinical Neurosciences, August 2022		
	University of Cambridge, Cambridge, UK		
	M.Phil. in Engineering, September 2021		
	Columbia University, New York, NY		
	B.A. in Biology, May, 2020 (GPA: 4.11/4.00) Concentration in Statistics, May 2020		
Honors and Awards	Marshall Scholarship (NY District), 2019 Rhodes Scholarship Finalist (NY District), 2019 Barry M. Goldwater Scholarship, 2019		
	Columbia University Junior Phi Beta Kappa, 2020 Summa Cum Laude, 2020 I. I. Rabi Scholarship, 2016		
	Columbia Venture Competition (2nd Place), 2018 Empire State Opioid Innovation Challenge (Finalist), 2018 Columbia University Opioid Challenge (Winner), 2017		
Research Experience	Computational Neuroscience Group, Oxford, UK	Sep. 2021 - Aug. 2022	
	• Creating a unified model of the hippocampal-entorhinal system that generalizes structure learn- ing and captures both the map- and memory-like properties of the hippocampus (Timothy EJ Behrens, PhD)		
	Computational & Biological Learning Group, Cambridge, UK	Aug. 2020 - Sep. 2021	
	 Developed a computational model capable of predicting dendritic Na+ spikes and discovered that they arise from unique computational motifs distinct from other aspects of dendritic integration (Mate Lengyel, PhD) First author manuscript in preparation 		
	Center for Theoretical Neuroscience, New York, NY	Aug. 2019 - Aug. 2020	
	 Built the first, state-of-the-art nonlinear retinal ganglion cell decode via neural networks (Liam Paninski, PhD) First author manuscript published in Neural Computation 	er for natural scene images	

	Dana Farber Cancer Institute, Boston, MA	May 2018 - Aug. 2019	
	 Elucidated the synthetic lethal targeting of <i>IKZF1</i>/IKAROS with lenalidomide in combination with either Menin or DOT1L inhibition in human <i>MLL</i>-transformed leukemias (Scott Armstrong, MD, PhD) <i>Co-author manuscript in preparation</i> 		
	Memorial Sloan Kettering Cancer Center, New York, NY	May 2014 - Apr. 2018	
	 Helped identify convergent downstream effects of spliceosomal gene thetic lethality Characterized SRSF2 point mutations in both murine and human strated E7107 to be a potential inhibitor for splicing-mutant leuk MD) 	n hematopoiesis and demon-	
PUBLICATIONS IN PREPARATION	Kim, Y. J. et al. Parallel functional architectures within a single den	adritic tree	
	Lee, J. et al. YASS: Yet Another Spike Sorter applied to large-scale multi-electrode array recordings in primate retina. bioRxiv 2020.03.18.997924 [Co-author] (In Review)		
PUBLICATIONS	Kim, Y. J. et al. Nonlinear Decoding of Natural Images From Large-Scale Primate Retinal Ganglion Recordings. Neural Computation 33, 17191750 (2021).		
	Lee, S. CW. et al. Synthetic Lethal and Convergent Biological Effects of Cancer-Associated Spliceo- somal Gene Mutations. Cancer Cell 34, 225-241.e8 (2018). [Co-author]		
	Kim, Y. J. & Abdel-Wahab, O. Therapeutic targeting of RNA splicing in myelodysplasia. Seminars in Hematology 54, 167173 (2017).		
	Kim, Y. J., Kim, K. & Lee, S. The rise of technological unemployment and its implications on the future macroeconomic landscape. Futures 87, 19 (2017).		
	Lee, S. CW. et al. Modulation of splicing catalysis for therapeutic targeting of leukemia with mutations in genes encoding spliceosomal proteins. Nat Med 22, 672678 (2016). [Co-author]		
	Oh, D. S., Kim, Y. J. , Hong, MH., Han, MH. & Kim, K. Effect of capillary action on bone regeneration in micro-channeled ceramic scaffolds. Ceramics International 40, 95839589 (2014). [Joint 1st author]		
Leadership Experience	Kenzo Labs, Inc., Co-Founder, CEO		
	Columbia University Organizations Columbia Science Review, Editor-in-Chief Department of Biological Sciences, Teaching Assistant Community Impact Student Executive Board Table Tennis Club, Vice President Road Runners, Race Coordinator Habitat for Humanity, Special Builds Coordinator		
Skills	 Languages: Fluent in English and Korean, Proficiency in Latin Technical Skills: Fluent in Python, MATLAB, R, PyTorch, Tensorflow, and molecular biology techniques Other Activities and Interests: Cross-country, classical violin, electronic music production 		