

# Young Joon Kim

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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	<b>Harvard Medical School</b> , Boston, MA M.D. Candidate (expected graduation date: May 2026)  <b>University of Cambridge</b> , Cambridge, UK M.Phil., Engineering, August, 2021  <b>Columbia University</b> , New York, NY B.A., Biology, May, 2020 (GPA: 4.11/4.00) Concentration, 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 <i>Summa Cum Laude</i> , 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	<b>Computational &amp; Biological Learning Group</b> , Cambridge, UK <b>Aug. 2020 - Sep. 2021</b> <ul style="list-style-type: none"><li>• Develop the first dendritic computational model that simultaneously captures dendritic spikes, backpropagation potentials, and electrical compartmentalization for characterizing neuronal input-output function</li></ul> <b>Center for Theoretical Neuroscience</b> , New York, NY <b>Aug. 2019 - Aug. 2020</b> <ul style="list-style-type: none"><li>• Built the first, state-of-the-art nonlinear retinal ganglion cell decoder for natural scene images via neural networks</li><li>• <i>First author manuscript in review for journal publication</i></li></ul> <b>Dana Farber Cancer Institute</b> , Boston, MA <b>May 2018 - Aug. 2019</b> <ul style="list-style-type: none"><li>• 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</li></ul> <b>Memorial Sloan Kettering Cancer Center</b> , New York, NY <b>May 2014 - Apr. 2018</b> <ul style="list-style-type: none"><li>• Helped identify convergent downstream effects of spliceosomal gene mutations that caused synthetic lethality</li></ul>

- Characterized *SRSF2* point mutations in both murine and human hematopoiesis and demonstrated E7107 to be a potential inhibitor for splicing-mutant leukemias

PUBLICATIONS IN PREPARATION	<p><b>Kim, Y. J.</b>, et al.. Nonlinear decoding of natural scenes from primate retinal ganglion responses. bioRxiv 2020.09.07.285742 (<i>In Review</i>)</p> <p>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 [<b>Co-author</b>] (<i>In Review</i>)</p>
PUBLICATIONS	<p>Lee, S. C.-W. et al. Synthetic Lethal and Convergent Biological Effects of Cancer-Associated Spliceosomal Gene Mutations. <i>Cancer Cell</i> 34, 225-241.e8 (2018). [<b>Co-author</b>]</p> <p><b>Kim, Y. J.</b> &amp; Abdel-Wahab, O. Therapeutic targeting of RNA splicing in myelodysplasia. <i>Seminars in Hematology</i> 54, 167173 (2017).</p> <p><b>Kim, Y. J.</b>, Kim, K. &amp; Lee, S. The rise of technological unemployment and its implications on the future macroeconomic landscape. <i>Futures</i> 87, 19 (2017).</p> <p>Lee, S. C.-W. et al. Modulation of splicing catalysis for therapeutic targeting of leukemia with mutations in genes encoding spliceosomal proteins. <i>Nat Med</i> 22, 672678 (2016). [<b>Co-author</b>]</p> <p>Oh, D. S., <b>Kim, Y. J.</b>, Hong, M.-H., Han, M.-H. &amp; Kim, K. Effect of capillary action on bone regeneration in micro-channeled ceramic scaffolds. <i>Ceramics International</i> 40, 95839589 (2014). [<b>Joint 1st author</b>]</p>
LEADERSHIP EXPERIENCE	<p><b>Kenzo Labs, Inc.</b>, Co-Founder, CEO</p> <p><b>Columbia University Organizations</b></p> <p>Columbia Science Review, <i>Editor-in-Chief</i></p> <p>Department of Biological Sciences, <i>Teaching Assistant</i></p> <p>Community Impact Student Executive Board</p> <p>Table Tennis Club, <i>Vice President</i></p> <p>Road Runners, <i>Race Coordinator</i></p> <p>Habitat for Humanity, <i>Special Builds Coordinator</i></p>
SKILLS	<p><b>Languages:</b> Fluent in English and Korean, Proficiency in Latin</p> <p><b>Technical Skills:</b> Fluent in Python, MATLAB, R, PyTorch, and molecular biology techniques</p> <p><b>Other Activities and Interests:</b> Cross-country running, Classical violin, Electronic music production</p>