## Kevin Juneos Mei Le

SUMMARY	Computational neuroscience PhD Candidate modeling human brain and cognitive functions using vision and language models.		
Contact	Mail: kvnjmle@gmail.com Web: kvnjmle.com		
EDUCATION	California Institute of Technology2019 – PresentPh.D. in Computation and Neural Systems2019 – Present		
	Amherst College2012 – 2016B.A. in English, Neuroscience2012 – 2016		
	Stuyvesant High School 2008 – 2012		
Research	<b>Ueli Rutishauser</b> , Cedars-Sinai Medical Center 2020 – Present <i>Graduate Student</i> Human neurophysiology, learning and memory.		
	Pietro Perona, California Institute of Technology2020 – PresentGraduate StudentHuman and computer vision.		
	Michael E. Greenberg, Harvard Medical School2014, 2015, 2017 – 2019Research AssistantHuman brain development and evolution.		
Projects	<b>Semantic Representation in Human Brain</b> Modeling how meaning is represented in neural activity and how information is transformed from audiovisual stimuli to semantic representations in the brain using large language and vision models, decoding and encoding models, and explainable AI methods.		
Skills	Programming Languages: Python, MATLAB, R, Bash Web Development: HTML, CSS Formatting: Lagran English Strephysical Strephys		
PUBLICATIONS	Multimodal brain responses during movie watching: single-neuron, intracranial EEG, and fMRI in human patients <i>Scientific Data</i> (2024) Umit Keles, Julien Dubois, <b>KEVIN J. M. LE</b> , J. Michael Tyszka, David A. Kahn, Chrystal M. Reed, Jeffrey M. Chung, Adam N. Mamelak, Ralph Adolphs, Ueli Rutishauser		

Activity-induced MeCP2 phosph	orylation regulates	postnatal gene e	xpression and 1	retinogeniculate
synapse refinement PNAS (2023)				

Christopher P. Tzeng<sup>\*</sup>, Tess Whitwam<sup>\*</sup>, Lisa D. Boxer<sup>\*</sup>, Emmy Li, Andrew Silberfeld, Sara Trowbridge, **KEVIN MEI**, Cindy Lin, Rebecca Shamah, Eric C. Griffith, William Renthal, Chinfei Chen, Michael E. Greenberg

## Activity-dependent regulome of human GABAergic neurons reveals new patterns of gene regulation and neurological disease heritability *Nature Neuroscience* (2021)

Gabriella L. Boulting<sup>\*</sup>, Ershela Duressi<sup>\*</sup>, Bulent Ataman<sup>\*</sup>, Maxwell A. Sherman<sup>\*</sup>, **KEVIN MEI**, David A. Harmin, Ava C. Carter, Daniel R. Hochbaum, Adam J. Granger, Jesse M. Engreitz, Sinisa Hrvatin, Michael R. Blanchard, Marty G. Yang, Eric C. Griffith, Michael E. Greenberg

Nibbling 405 kb off the X: Viable deletion alleles eliminating 50 protein coding genes, including a chromatin factor involved in neuronal development *microPublication Biology* (2019) Gregory Minevich, Alex Bernstein, KEVIN MEI, Richard J. Poole, Oliver Hobert

**Evolution of Osteocrin as an activity-regulated factor in the primate brain** *Nature* (2016) Bulent Ataman<sup>\*</sup>, Gabriella L. Boulting<sup>\*</sup>, David A. Harmin, Marty G. Yang, Mollie Baker-Salisbury, Ee-Lynn Yap, Athar N. Malik, **KEVIN MEI**, Alex A. Rubin, Ivo Spiegel, Ershela Durresi, Nikhil Sharma, Linda S. Hu, Mihovil Pletikos, Eric C. Griffith, Jennifer N. Partlow, Christine R. Stevens, Mazhar Adli, Maria Chahrour, Nenad Sestan, Christopher A. Walsh, Vladiimr K. Berezovskii, Margaret S. Livingstone, Michael E. Greenberg

TEACHING	<b>Human Memory (Bi 23)</b> , California Institute of Technology <i>Instructor</i>	Winter 2024
	<b>Projects in Machine Learning (CS 101)</b> , California Institute of Technology <i>Teaching Assistant for Katie Bouman</i>	Fall 2023
	<b>Data Analysis in Biology (BE/Bi 103a)</b> , California Institute of Technology <i>Teaching Assistant for Justin Bois</i>	Fall 2023
	<b>Computational Vision (EE/CNS/CS 148)</b> , California Institute of Technology <i>Teaching Assistant for Pietro Perona</i>	Spring 2022
	<b>Neuroscience of Narrative (Bi 23)</b> , California Institute of Technology <i>Instructor</i>	Winter 2022
	<b>Molecular Genetics (BIOL 251)</b> , Amherst College <i>Teaching Assistant for Yan Qi</i>	Fall 2015
Posters	<b>Society for Neuroscience Conference</b> "Neurons in human medial temporal lobe encode semantic features of movies"	2023
	Harvard Medical School Department of Neurobiology Retreat "Evolved human neuronal activity-responsive genes and regulatory elements"	2019