

JEONG JUN KIM

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EDUCATION

Johns Hopkins School of Medicine

MD-PhD candidate

Aug 2019 - May 2027

Baltimore, MD

Harvard University

A.B. in Chemical and Physical Biology

Sept 2014 - May 2018

Cambridge, MA

- Honors: summa cum laude, Phi Beta Kappa

RESEARCH

Podgorski Lab, HHMI Janelia Research Campus

Research Associate

June 2018 - July 2019

Ashburn, VA

- Use two-photon glutamate imaging and expansion microscopy to map synaptic inputs in vivo.
- Write instrument control software for kilohertz framerate two-photon imaging.

Cohen Lab, Department of Chemistry, Harvard University

Undergraduate Researcher

Dec 2014 - May 2018

Cambridge, MA

- Devised optics and protocols for two-photon activation of channelrhodopsin in deep tissue.
- Characterized photophysics of engineered opsins for in vivo voltage imaging in the mouse brain.
- Developed computational methods for structured illumination microscopy.

PUBLICATIONS

Kazemipour A, Novak O, Flickinger D, Marvin J, King J, Borden P, Druckmann S, Svoboda K, Looger L, Abdelfattah A, Kim JJ, Abdullatif S, Deal P, Miller E, Schreiter E, Podgorski K. Kilohertz frame-rate two-photon tomography. *Nature Methods*, 29 July 2019. <https://doi.org/10.1038/s41592-019-0493-9>

Adam Y, Kim JJ, Lou S, Zhao Y, Xie ME, Brinks D, Wu H, Mostajo Raji MA, Kheifets S, Parot V, Chettih S, Williams KJ, Gmeiner B, Farhi SL, Madisen L, Buchanan EK, Kinsella I, Zhou D, Paninski L, Harvey CD, Zeng H, Arlotta P, Campbell RE, Cohen AE. Voltage imaging and optogenetics reveal behaviour-dependent changes in hippocampal dynamics. *Nature*, 01 May 2019. <https://doi.org/10.1038/s41586-019-1166-7>

Farhi S, Parot V, Grama A, Yamagata M, Abdelfattah A, Adam Y, Lou S, Kim JJ, Campbell RE, Cox DD, Cohen AE. Wide-Area All-Optical Neurophysiology in Acute Brain Slices. *Journal of Neuroscience*, 19 June 2019. <https://doi.org/10.1523/JNEUROSCI.0168-19.2019>

TEACHING EXPERIENCE

Department of Molecular & Cellular Biology, Harvard University

Teaching Fellow

Aug 2017 - Dec 2018

Cambridge, MA

- Wrote problem sets and exam questions for MCB 293: Biochemistry, Chemical and Structural Biology.
- Held weekly office hours and provided individual tutoring in workshops.

EXTRACURRICULARS

Harvard Square Homeless Shelter

Finance Director

June 2015 - June 2018

Philips Brooks House Association

- Oversaw the finances of the shelter, including the operating budget and fund-raising efforts.
- Served as a member of the Policy Committee, the administrative body for HSHS.