

Stanford



Kyung Geun Kim

- Ph.D. Student in Bioengineering, admitted Autumn 2024
- Masters Student in Bioengineering, admitted Spring 2026

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BIO

Kyung Geun Kim is a Bioengineering PhD candidate in the Druckmann Lab at Stanford. He is interested in developing interpretable computational methods to study how neural population dynamics across brain regions support decision making and flexible behavior. Before Stanford, he earned his BS and MS in Electrical Engineering and Computer Sciences from UC Berkeley and worked in industry as a research scientist developing medical AI for clinical decision support.

HONORS AND AWARDS

- Stanford Graduate Fellowship, Stanford University (2024-2027)

EDUCATION AND CERTIFICATIONS

- M.S., University of California, Berkeley , Electrical Engineering & Computer Sciences (2020)
- B.S., University of California, Berkeley , Electrical Engineering & Computer Sciences (2018)

LINKS

- LinkedIn: <https://www.linkedin.com/in/kyung-geun-kim-7aab28b3/>

Publications

PUBLICATIONS

- **Deep Learning-Based Risk Assessment and Prediction of Cardiac Outcomes Using Single-Lead 24-Hour Holter-ECG in Patients with Heart Failure or Myocardial Infarction.** *Journal of clinical medicine*
Kim, J. Y., Kim, K. G., Joo, S., Chang, M., Kim, J., Park, K. M., On, Y. K., Kim, J. S., Lee, Y. S., Park, S. J.
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- **Graph structure based data augmentation method.** *Biomedical engineering letters*
Kim, K. G., Lee, B. T.
2025; 15 (2): 283-289
- **Self-attention with temporal prior: can we learn more from the arrow of time?** *Frontiers in artificial intelligence*
Kim, K. G., Lee, B. T.
2024; 7: 1397298
- **An Artificial Intelligence Algorithm With 24-h Holter Monitoring for the Identification of Occult Atrial Fibrillation During Sinus Rhythm** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
Kim, J., Kim, K., Tae, Y., Chang, M., Park, S., Park, K., On, Y., Kim, J., Lee, Y., Jang, S.
2022; 9: 906780

- **NeuroGPU: Accelerating multi-compartment, biophysically detailed neuron simulations on GPUs** *JOURNAL OF NEUROSCIENCE METHODS*
Ben-Shalom, R., Ladd, A., Artherya, N. S., Cross, C., Kim, K., Sanghevi, H., Korngreen, A., Bouchard, K. E., Bender, K. J.
2022; 366: 109400
- **Scaling and Benchmarking an Evolutionary Algorithm for Constructing Biophysical Neuronal Models** *FRONTIERS IN NEUROINFORMATICS*
Ladd, A., Kim, K., Balewski, J., Bouchard, K., Ben-Shalom, R.
2021; 16: 882552