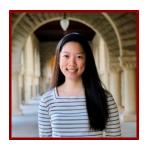# Stanford

Renesmee Kuo

- Ph.D. Student in Electrical Engineering, admitted Autumn 2022
- Masters Student in Electrical Engineering, admitted Autumn 2023

Bio

BIO

Renesmee Kuo is an Electrical Engineering PhD candidate at Stanford University supported by NSF GRFP. She focuses on preclinical PET imaging for neuroinflammatory diseases and cancer in Prof. Michelle James' lab. She graduated from UC Berkeley with a BS in Bioengineering. Her research interests lie at the intersection of engineering and medicine. At UC Berkeley, she worked in Prof. Steve Conolly's lab on Magnetic Particle Imaging (MPI). She focused on tracking CAR-T cells in immunotherapy using high-resolution MPI tracers. She also focused on using commercially available high-resolution MPI tracers for early diagnosis of Pulmonary Embolisms and Cardiovascular disease in preclinical settings.

HONORS AND AWARDS

- Graduate Research Fellowship, National Science Foundation (2022)
- Electrical Engineering Department Fellowship, Stanford University (2022)
- Young Investigator Award, American Association of Physicists in Medicine (2022)
- Jacobs Institute Innovation Catalysts Ignite Grant, University of California, Berkeley (2021)

EDUCATION AND CERTIFICATIONS

- BS, University of California, Berkeley , Bioengineering (2022)

LINKS

- LinkedIn: https://www.linkedin.com/in/renesmeekuo/
- Google Scholar: https://scholar.google.com/citations?user=2d4IVysAAAAJ&hl=en
- James Lab: https://med.stanford.edu/jameslab.html

Publications

PUBLICATIONS

- **PET Imaging of Innate Immune Activation Using 11C Radiotracers Targeting GPR84.** *JACS Au*
  Kalita, M., Park, J. H., Kuo, R. C., Hayee, S., Marsango, S., Straniero, V., Alam, I. S., Rivera-Rodriguez, A., Pandrala, M., Carlson, M. L., Reyes, S. T., Jackson, I. M., Suigo, et al
  2023; 3 (12): 3297-3310

- **Application of Machine Learning Driven Computational Approaches for Novel CNS PET Tracer Development**
  Jackson, I., Luo, A., Webb, E., Zhang, B., Guo, A., Nagy, S., Shao, X., Kuo, R., Carlson, M., Alam, I., Rodriguez, A., Winton, W., Stauff, et al
  ELSEVIER SCIENCE INC.2023: S40-S41

- **Magnetic Particle Imaging in Vascular Imaging, Immunotherapy, Cell Tracking, and Noninvasive Diagnosis** *MOLECULAR IMAGING*

Chandrasekharan, P., Kuo, R., Fung, K., Saayujya, C., Bryan, J., Yousuf, M., Fellows, B., Colson, C., Huynh, Q., Doyle, O., Hartley, A., Yousuf, K., Goodwill, et al
2023; 2023