

# Stanford

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## Sheng Liu

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### Bio

#### BIO

Sheng Liu is a postdoctoral fellow at Stanford University. In May 2023, He received a Ph.D. degree from New York University, majoring in Data Science and Machine Learning. His background is in the area of robust and trustworthy machine learning, machine learning for healthcare.

#### STANFORD ADVISORS

- James Zou, Postdoctoral Faculty Sponsor
- Lei Xing, Postdoctoral Research Mentor

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### Publications

#### PUBLICATIONS

- **Long-term, ambulatory 12-lead ECG from a single non-standard lead using perceptual reconstruction.** *medRxiv : the preprint server for health sciences*  
Bandyopadhyay, S., Chiu, I. M., Ansari, R., Liu, S., Hughes, J. W., Perino, A. C., Bhatia, N. K., Ouyang, D., Ashley, E. A., Perez, M. V., Zou, J., Narayan, S. M., Rogers, et al  
2025
- **Revealing neurocognitive and behavioral patterns through unsupervised manifold learning of dynamic brain data.** *Nature computational science*  
Zhou, Z., Liu, J., Wu, W. E., Fang, R., Liu, S., Wei, Q., Yan, R., Guo, Y., Tao, Q., Wang, Y., Islam, M. T., Xing, L.  
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- **Quantifying large language model usage in scientific papers.** *Nature human behaviour*  
Liang, W., Zhang, Y., Wu, Z., Lepp, H., Ji, W., Zhao, X., Cao, H., Liu, S., He, S., Huang, Z., Yang, D., Potts, C., Manning, et al  
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- **Automated radiotherapy treatment planning guided by GPT-4Vision.** *Physics in medicine and biology*  
Liu, S., Pastor-Serrano, O., Chen, Y., Gopaulchan, M., Liang, W., Buyyounouski, M., Pollom, E., Le, Q. T., Gensheimer, M. F., Dong, P., Yang, Y., Zou, J., Xing, et al  
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- **Inference-specific learning for improved medical image segmentation.** *Medical physics*  
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- **GPT-RadPlan: a plugin for automated treatment planning in Eclipse TPS based on large language models**  
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