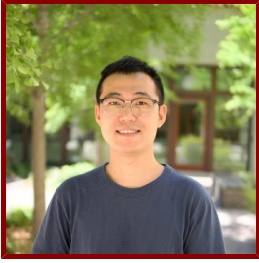


Stanford



Shuke Xiao

Postdoctoral Scholar, Pathology

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- NIH Pathway to Independence Award, National Institutes of Health (2025)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Heart Association (2024 - present)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Yale University (2022)
- Bachelor of Science, Nanjing University (2016)
- PhD, Yale University , Molecular Neuroscience (2022)
- BSc, Nanjing University , Biological Sciences (2016)

STANFORD ADVISORS

- Jonathan Long, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Jonathan Long (6/1/2022)

Publications

PUBLICATIONS

- **Lactate as a Chemical Modification on Proteins and Metabolites.** *Annual review of biochemistry*
Xiao, S., Markhard, A. L., Long, J. Z.
2026; 95 (1): 525-547
- **Snake postprandial metabolite shows cross-species activation of hypothalamic neurons** *NATURE METABOLISM*
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- **Python metabolomics uncovers a conserved postprandial metabolite and gut-brain feeding pathway.** *Nature metabolism*
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2026
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Wang, Y., Zhang, Y., Leung, V. H., Seradj, S. H., Sonmez, U., Servin-Vences, M. R., Xiao, S., Ren, X., Wang, L., Mishkanian, S. A., Kini, S. A., Long, J. Z., Lipomi, et al
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- **SLC17A1/3 transporters mediate renal excretion of Lac-Phe in mice and humans.** *Nature communications*
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- **PTER is a N-acetyltaurine hydrolase that regulates feeding and obesity.** *Nature*
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2024
- **Lac-Phe (N-lactoyl-phenylalanine).** *Trends in endocrinology and metabolism: TEM*
Xiao, S., Li, V. L., Long, J. Z.
2024; 35 (8): 758-759
- **A PTER-dependent pathway of taurine metabolism linked to energy balance.** *bioRxiv : the preprint server for biology*
Wei, W., Lyu, X., Markhard, A. L., Fu, S., Mardjuki, R. E., Cavanagh, P. E., Zeng, X., Rajniak, J., Lu, N., Xiao, S., Zhao, M., Moya-Garzon, M. D., Truong, et al
2024
- **Lac-Phe mediates the effects of metformin on food intake and body weight.** *Nature metabolism*
Xiao, S., Li, V. L., Lyu, X., Chen, X., Wei, W., Abbasi, F., Knowles, J. W., Tung, A. S., Deng, S., Tiwari, G., Shi, X., Zheng, S., Farrell, et al
2024
- **Lac-Phe mediates the anti-obesity effect of metformin.** *bioRxiv : the preprint server for biology*
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- **Meeting a threat of the Anthropocene: Taste avoidance of metal ions by Drosophila.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Robust olfactory responses in the absence of odorant binding proteins.** *eLife*
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