Stanford

Zhijun Zhu

Postdoctoral Scholar, Chemical Engineering

Bio

HONORS AND AWARDS

- Postdoctoral Career Development Award, American Society for Mass Spectrometry (ASMS) (2026)
- Steve Berger Academic Award, Agilent Technologies (2026)
- Silverstein Fellow, The Silverstein Foundation for Parkinson's with GBA (2025)
- Gary B. and Janice L. Aspelin Excellence in Research Award, Department of Chemistry, University of Wisconsin-Madison (2024)
- Rising Star Award, Wisconsin Human Proteomics Symposium (2024)
- Student Excellence Award, Chinese American Chromatography Association (CACA) (2024)
- SRGC Travel Award, Graduate School, University of Wisconsin-Madison (2023)
- GSFLC Travel Award, Department of Chemistry, University of Wisconsin-Madison (2022)
- Poster Award, Department of Chemistry, University of Wisconsin-Madison (2022)
- Robert C. Doban Mentorship Award, Department of Chemistry, University of Wisconsin-Madison (2022)
- Honored Instructor Award, University Housing, University of Wisconsin-Madison (2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society for Mass Spectrometry (2019 - present)

PROFESSIONAL EDUCATION

- Ph.D., University of Wisconsin-Madison , Analytical Chemistry (2024)
- B.S.(Honors), Wuhan University , Chemistry (2019)

STANFORD ADVISORS

- Monther Abu-Remaileh, Postdoctoral Faculty Sponsor

LINKS

- X: https://x.com/zhu_zhijun
- LinkedIn: https://www.linkedin.com/in/zhijun-zhu-929a5116a/
- Google Scholar: https://scholar.google.com/citations?hl=en&user=tRlU9HAAAAAJ

Research & Scholarship

LAB AFFILIATIONS

- Monther Abu-Remaileh (9/3/2024)

Publications

PUBLICATIONS

- **Decoding stereospecific metabolic regulation of protein modifications.** *Nature chemistry*
  Xu, S., Li, L., Zhu, Z.
  2026; 18 (6): 985-987

- **sn-Position-Resolved Quantification of Aminophospholipids by Isotopic N,N-Dimethyl Leucine Labeling and High-Resolution Ion Mobility Mass Spectrometry.** *Analytical chemistry*
  Xu, S., Zhu, Z., Gu, T. J., Wang, Z., Delafield, D. G., Rigby, M. J., Lu, G., Ma, M., Liu, P. K., Puglielli, L., Li, L.
  2024; 96 (50): 20098-20106

- **Spatially and temporally probing distinctive glycerophospholipid alterations in Alzheimer's disease mouse brain via high-resolution ion mobility-enabled sn-position resolved lipidomics.** *Nature communications*
  Xu, S., Zhu, Z., Delafield, D. G., Rigby, M. J., Lu, G., Braun, M., Puglielli, L., Li, L.
  2024; 15 (1): 6252

- **Lysine L-lactylation is the dominant lactylation isomer induced by glycolysis.** *Nature chemical biology*
  Zhang, D., Gao, J., Zhu, Z., Mao, Q., Xu, Z., Singh, P. K., Rimayi, C. C., Moreno-Yruela, C., Xu, S., Li, G., Sin, Y. C., Chen, Y., Olsen, et al
  2024

- **CHRISTMAS: Chiral Pair Isobaric Labeling Strategy for Multiplexed Absolute Quantitation of Enantiomeric Amino Acids.** *Analytical chemistry*
  Zhu, Z., Xu, S., Wang, Z., Delafield, D. G., Rigby, M. J., Lu, G., Gu, T. J., Liu, P. K., Ma, M., Puglielli, L., Li, L.
  2023; 95 (50): 18504-18513

- **Quantification of Serum Metabolites in Early Colorectal Adenomas Using Isobaric Labeling Mass Spectrometry.** *Journal of proteome research*
  Liu, Y., Zhang, H., Dove, W. F., Wang, Z., Zhu, Z., Pickhardt, P. J., Reichelderfer, M., Li, L.
  2023; 22 (5): 1483-1491