

# Stanford

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## Kewei Zhao

Postdoctoral Scholar, Photon Science, SLAC

### Bio

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#### BIO

Ph. D. in Chemistry, Princeton University (2023)

B. S. in Chemical Biology, Tsinghua University (2018)

#### STANFORD ADVISORS

- Britt Hedman, Postdoctoral Faculty Sponsor
- Ritimukta Sarangi, Postdoctoral Research Mentor

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Investigation of catalytic mechanism of metalloenzyme with spectroscopy methods.

### Publications

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#### PUBLICATIONS

- **Zero-shot design of a de novo metalloenzyme.** *bioRxiv : the preprint server for biology*  
Nesr, G. E., Dürr, S. L., Mathews, I. I., Wen, Q., Zhao, K., Sarangi, R., Röthlisberger, U., Sunden, F., Huang, P. S.  
2026
- **Investigating weak axial ligation in corrinoids by X-ray absorption spectroscopy: Implications for corrinoid iron-sulfur protein.** *Journal of inorganic biochemistry*  
Zhao, K., Abernathy, M. J., Griffith, C., Kountz, D. J., Esckilsen, D., Ragsdale, S. W., Sarangi, R.  
2026; 281: 113323
- **Cryo-EM captures the coordination of asymmetric electron transfer through a di-copper site in DPOR.** *Nature communications*  
Kashyap, R., Walsh, N., Deveryshetty, J., Tokmina-Lukaszewska, M., Zhao, K., Gan, Y. J., Hoffman, B. M., Sarangi, R., Bothner, B., Bennett, B., Antony, E.  
2025; 16 (1): 3866