



## Haoqi (Nina) Zhao

Assistant Professor of Civil and Environmental Engineering

### Bio

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#### BIO

Nina will join Stanford CEE as an Assistant Professor in Summer 2026. Her research bridges computational metabolomics and exposomics to uncover unknown lifestyle chemicals and their impacts on health. Nina earned her B.S. from Peking University, her Ph.D. from the University of Washington, and is currently a postdoctoral scientist at UC San Diego. She received the Pathway to Independence Award (K99/R00) from the National Institutes of Health in 2025.

The Zhao Lab at Stanford will operate at the interface of environmental chemistry, environmental health, and computational mass spectrometry. We aim to identify previously unrecognized chemical drivers that influence human and ecosystem health. We pursue this goal by developing innovative computational and analytical methods centered around untargeted mass spectrometry. Through these efforts, we aim to enable precision environmental health strategies, inform public health policies, and inspire sustainable chemical design.

Current research interests include (but are not limited to):

1. Leveraging mass spectrometry data repositories and advanced informatics tools to systematically map the chemical exposome.
2. Developing tools and resources for mass spectrometry data analysis to advance exposomics research.
3. Investigating host-microbiome-xenobiotic interactions and their impacts on human health.
4. Integrating toxicology with untargeted screening to accelerate the discovery and risk assessment of unknown molecules.
5. Pediatric environmental health: chemical exposures through breastfeeding and their implications for infant development.
6. Traffic-related chemical pollution: environmental fate, occurrence, and relevance to human exposures.

#### Education

Ph.D., University of Washington, Environmental Engineering (2021)

B.S., Peking University, Environmental Science (2016)

#### Publications

<https://scholar.google.com/citations?user=xW9jBO0AAAAJ&hl=en>

Email: [hqzhao@stanford.edu](mailto:hqzhao@stanford.edu)

## **ACADEMIC APPOINTMENTS**

- Assistant Professor, Civil and Environmental Engineering

## **Teaching**

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## **STANFORD ADVISEES**

### **Postdoctoral Faculty Sponsor**

Xingyuan Chen