

# ZHIKAI WU

Email: [zhikai.wu@yale.edu](mailto:zhikai.wu@yale.edu) | Homepage: <https://zwu88.github.io> | Github: <https://github.com/zwu88>

## RESEARCH INTEREST

---

Machine Learning and Computational Biology

## EDUCATION

---

### Yale University

*Ph.D. in Computer Science*

New Haven, CT

*Aug. 2024 – Present*

- Advisor: Dr. David van Dijk
- Research Focus: Machine Learning for Computational Biology

### University of Michigan, Ann Arbor

*Bachelor of Science in Honors Mathematics (Minor in Computer Science)*

Ann Arbor, MI

*Sep. 2019 – May 2023*

- Graduated with Highest Distinction
- GPA: 4.0 / 4.0

## PUBLICATIONS

---

### GeoFunFlow: Geometric Function Flow Matching for Inverse Operator Learning over Complex Geometries

*S. Wang\*, Z. Wu\*, et al. (Under Review)*

### Predicting Microbial Community Productivity Based-On Genomic Sequences with Graph Neural Network

*J. Hou, P. X. Geng, Z. Wu, et al. (2024 17th International Congress on Image and Signal Processing, BioMedical Engineering and Informatics)*

### COAST: Intelligent Time-Adaptive Neural Operators

*Z. Wu, et al. (ICML 2025 Workshop on AI4Math (Poster))*

### TANTE: Time-Adaptive Operator Learning via Neural Taylor Expansion

*Z. Wu, et al. (Under Review)*

*\* denotes equal contribution*

## HONORS & AWARDS

---

- **Fan Family Fellowship**, Yale University (2025)
- **Outstanding Achievement in Mathematics Award**, University of Michigan, Ann Arbor (2023)
- **James B. Angell Scholar**, University of Michigan, Ann Arbor (2023)
- **University Honors**, University of Michigan, Ann Arbor (2022, 2023)

## SERVICES

---

### Conference Reviewer

- International Conference on Learning Representations (ICLR)
- AI4MATH Workshop at ICML 2025