

# ZHIKAI WU

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## 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\*, D. van Dijk, L. Lu (In Review)*

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

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

### **COAST: Intelligent Time-Adaptive Neural Operators**

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

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

*Z. Wu, S. Wang, S. Zhang, S. He, et al. (In 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