

ZHIKAI WU

Email: zhikaiwu@seas.upenn.edu — 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