

# ZHIKAI WU

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## RESEARCH INTEREST

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Machine Learning and Computational Biology

## EDUCATION

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### 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

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

*S. Wang\*, Z. Wu\*, D. van Dijk, L. Lu (In Review)*

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

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

### Intelligence at the Edge of Chaos

*S. Zhang\*, A. Patel\*, S. Rizvi, N. Liu, S. He, et al. (ICLR 2025 (Poster))*

### COAST: Intelligent Time-Adaptive Neural Operators

*Z. Wu, S. Zhang, S. He, et al. (AI4MATH Workshop at ICML 2025 (Poster))*

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

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

### CaLMFlow: Flow Matching using Causal Language Models

*S. He\*, D. Levine\*, et al. (arXiv)*

### Operator Learning Meets Numerical Analysis: Improving Neural Networks through Iterative Methods

*E. Zappala, D. Levine, S. He, et al. (arXiv)*

\* denotes equal contribution

## HONORS & AWARDS

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- **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

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### Conference Reviewer

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