ZONGYI LI

zongyili@nyu.edu https://zongyi-li.github.io Google Scholar

RESEARCH INTEREST

My research interests lie at the intersection of machine learning and physical sciences (AI for science). Specifically, I work on neural operators for learning solution operators in partial differential equations (PDEs) that arise in fluid mechanics and earth sciences.

APPOINTMENTS

Assistant Professor, NYU Courant 2026 - present
Mathematics and Data Science. Courant Institute of Mathematical Sciences.

Postdoctoral Associate, MIT 2025 - 2026
Computer Science and Artificial Intelligence Laboratory. Hosted by Kaiming He

EDUCATION

Ph.D., Caltech 2019 - 2025
Computing and Mathematical Science. Advised by Anima Anandkumar

B.S., Washington University in St. Louis 2015 - 2019
Mathematics and Computer Science

WORK EXPERIENCE

Research Internships at Nvidia Summer 2022, 2023, 2024
Mentored by Sylvia Chanak, Anima Anandkumar, and Sanjay Choudhry respectively

AWARDS

Schmidt Science AI2050 Early Career Fellowship 2025
MIT-Novo Nordisk AI Postdoctoral Fellowship 2025
Milton and Francis Clauser Doctoral Prize (best thesis award) 2025
Caltech Graduate Teaching and Mentoring Award 2025
Nvidia Fellowship 2023

SELECTED PUBLICATIONS

"Fourier Neural Operator for Parametric Partial Differential Equations"
Zongyi Li, Nikola Kovachki, Kamyar Azizzadenesheli, Burigede Liu, Kaushik Bhattacharya, Andrew Stuart, and Anima Anandkumar. Appeared at ICLR, 2021

"Neural Operator: Learning Maps Between Function Spaces"
Nikola Kovachki*, Zongyi Li*, Burigede Liu, Kamyar Azizzadenesheli, Kaushik Bhattacharya, Andrew Stuart, Anima Anandkumar. JMLR 2023.

"Fourier Neural Operator with Learned Deformations for PDEs on General Geometries"
Zongyi Li, Daniel Zhengyu Huang, Burigede Liu, Anima Anandkumar. JMLR 2024.

"Physics-Informed Neural Operator for Learning Partial Differential Equations"
Zongyi Li*, Hongkai Zheng*, Nikola Kovachki, David Jin, Haoxuan Chen, Burigede Liu, Kamyar Azizzadenesheli, Anima Anandkumar. ACM-JDS 2024.

'Geometry-Informed Neural Operator for Large-Scale 3D PDEs"
Zongyi Li, Nikola Kovachki, Chris Choy, Boyi Li, Jean Kossaifi, Shourya Prakash Otta, Mohammad Nabian et al. Neurips, 2023