

Zihao Chen

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Education

PhD Computer Science , UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA	2025 - 2027
Advisor: Prof. Eva Dyer	
Large language model, deep generative models, diffusion models, optimal transport, time series forecasting.	
PhD Machine Learning , GEORGIA TECH, ATLANTA, GA	2023 - 2025
4.0/4.0 GPA Advisor: Prof. Eva Dyer	
Master of Biomedical Engineering , FUDAN UNIVERSITY, SHANGHAI, CHINA	2019 - 2022
3.7/4.0 GPA Advised by Chunhe Li	
BS Biology , WUHAN UNIVERSITY, WUHAN, CHINA	2015 - 2019
3.8/4.0 GPA Advised by Min Wu	

Selected Papers

Chen Z, Andre A, Ma W, Knight IJ, Shubaev AS, Dyer E. "PRISM: A Hierarchical Multiscale Approach for Time Series Forecasting." *Resubmit to ICML*, 2026.

Chen Z, Andre A, Ma W, Knight IJ, Azabou M, Shubaev AS, Dyer E., "Mixtures of Latent Diffusion Processes for Time Series Forecasting and Disentanglement." *Resubmit*, 2026.

Chen Z, Lin C, Liu R, Xiao J, Dyer E. "Your contrastive learning problem is secretly a distribution alignment problem." *Advances in Neural Information Processing Systems (NeurIPS)*, 2024. (Acceptance Rate 25.8%).

Chen Z*, Lu J*, Zhao X M, Yu H, Li C. "Energy landscape reveals the underlying mechanism of cancer-adipose conversion with gene network models." *Advanced Science*, 11(41): 2404854 (2024). (Impact Factor 15.1)

Arora V, Lachi D, Mahato SP, Azabou M, **Chen Z**, Dyer E. "Exploiting All Laplacian Eigenvectors for Node Classification with Graph Transformers." *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.

Knight IJ, Arora V, Azabou M, **Chen Z**, Dyer E. "Unified pretraining on mixed optophysiology and electrophysiology data across brain regions." *NeurIPS 2025 Workshop on Foundation Models for the Brain and Body*, 2025.

Arora V, Lachi D, Mahato SP, Azabou M, **Chen Z**, Dyer E. "Broaden the Spectrum: Using Higher-Order Laplacian Eigenvectors for Node Classification in Graph Transformers." *Submitted to Advances in Neural Information Processing Systems (NeurIPS)*, 2025.

Yuan Y*, **Chen Z***, Liu J, Chou C, Dai C, Jiang X. "Towards highly flexible inter-user calibration of myoelectric control models with user-defined hand gestures." *IEEE Transactions on Medical Robotics and Bionics*, 2024.

Pillai M*, **Chen Z***, Jolly MK, Li C. "Quantitative landscapes reveal trajectories of cell-state transitions associated with drug resistance in melanoma." *iScience*, 2022, 105499.

Chen Z, Li C. "Quantifying the Landscape and Transition Paths for Proliferation–Quiescence Fate Decisions." *Journal of Clinical Medicine*, 9(8): 2582 (2020).

* denotes first author or first co-authors

Work Experience

RESEARCH SCIENTIST INTERN Google Cambridge Boston, MA	May 2026
RESEARCH ASSISTANT University of Pennsylvania Philadelphia, PA	2025 – Present
RESEARCH ASSISTANT Georgia Institute of Technology Atlanta, GA	2023 – 2025
RESEARCH ASSISTANT Fudan University Shanghai, China	2022 – 2023
QUANTITATIVE RESEARCH INTERN Asymmetric Technology Shanghai, China	Jan 2022 – May 2022
MACHINE LEARNING ENGINEER INTERN Tencent Shenzhen, China	May 2021 – Sep 2021