

# Lin Zheng

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## Education

**The University of Hong Kong**

2021.09 – 2026.08

*Ph.D. in Computer Science*

Advisor: Lingpeng Kong

**Sun Yat-sen University**

2017.09 – 2021.06

*B.E. in Software Engineering*

Advisor: Qinliang Su

## Selected Publications

- [1] DreamOn: Diffusion Language Models For Code Infilling Beyond Fixed-size Canvas  
Zirui Wu\*, **Lin Zheng\***, Zhihui Xie, Jiacheng Ye, Jiahui Gao, Yansong Feng, Zhenguo Li, Victoria W., Guorui Zhou, and Lingpeng Kong  
*Blog post, 2025*
- [2] Dream-Coder 7B: An Open Diffusion Language Model for Code  
Zhihui Xie\*, Jiacheng Ye\*, **Lin Zheng\***, Jiahui Gao\*, Jingwei Dong, Zirui Wu, Xueliang Zhao, Shansan Gong, Xin Jiang, Zhenguo Li, and Lingpeng Kong  
*arXiv preprint, 2025*
- [3] Dream 7B: Diffusion Large Language Models  
Jiacheng Ye\*, Zhihui Xie\*, **Lin Zheng\***, Jiahui Gao\*, Zirui Wu, Xin Jiang, Zhenguo Li, and Lingpeng Kong  
*arXiv preprint, 2025*
- [4] EvaByte: Efficient Byte-level Language Models at Scale  
**Lin Zheng**, Xueliang Zhao, Guangtao Wang, Chen Wu, David Dong, Angela Wang, Mingran Wang, Yun Du, Haige Bo, Amol Sharma, Bo Li, Kejie Zhang, Changran Hu, Urmish Thakker, and Lingpeng Kong  
*Blog post, 2025*
- [5] Beyond Autoregression: Discrete Diffusion for Complex Reasoning and Planning  
Jiacheng Ye, Jiahui Gao, Shansan Gong, **Lin Zheng**, Xin Jiang, Zhenguo Li, and Lingpeng Kong  
*ICLR 2025*
- [6] Scaling Diffusion Language Models via Adaptation from Autoregressive Models  
Shansan Gong\*, Shivam Agarwal\*, Yizhe Zhang, Jiacheng Ye, **Lin Zheng**, Mukai Li, Chenxin An, Peilin Zhao, Wei Bi, Jiawei Han, Hao Peng, and Lingpeng Kong  
*ICLR 2025*
- [7] Self-Infilling Code Generation  
**Lin Zheng**, Jianbo Yuan, Zhi Zhang, Hongxia Yang, and Lingpeng Kong  
*ICML 2024*
- [8] Diffusion of Thoughts: Chain-of-Thought Reasoning in Diffusion Language Models  
Jiacheng Ye\*, Shansan Gong\*, Liheng Chen\*, **Lin Zheng**, Jiahui Gao, Han Shi, Chuan Wu, Zhenguo Li, Wei Bi, and Lingpeng Kong  
*NeurIPS 2024*
- [9] A Reparameterized Discrete Diffusion Model for Text Generation  
**Lin Zheng**, Jianbo Yuan, Lei Yu, and Lingpeng Kong  
*COLM 2024*

- [10] Efficient Attention via Control Variates  
**Lin Zheng**, Jianbo Yuan, Chong Wang, and Lingpeng Kong  
*ICLR 2023 (oral)*
- [11] Linear Complexity Randomized Self-attention Mechanism  
**Lin Zheng**, Chong Wang, and Lingpeng Kong  
*ICML 2022*
- [12] Ripple Attention for Visual Perception with Sub-quadratic Complexity  
**Lin Zheng**, Huijie Pan, and Lingpeng Kong  
*ICML 2022*
- [13] Cascaded Head-colliding Attention  
**Lin Zheng**, Zhiyong Wu, and Lingpeng Kong  
*ACL 2021*

## Research Experience

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<b>Google DeepMind</b> <i>Student Researcher, with Joshua Maynez</i>	2025.09 – present
<b>ByteDance TikTok AIIC</b> <i>Research Intern, with Qian Liu</i>	2025.03 – 2025.08
<b>SambaNova Systems</b> <i>Research Intern, with Urmish Thakker, Mingran Wang, and Yun Du</i>	2024.02 – 2024.12
<b>ByteDance AML Research</b> <i>Research Intern, with Jianbo Yuan and Zhi Zhang</i>	2023.04 – 2024.01
<b>ByteDance AML Research</b> <i>Research Intern, with Chong Wang and Jianbo Yuan</i>	2021.06 – 2022.08
<b>The University of Hong Kong</b> <i>Research Assistant, with Lingpeng Kong</i>	2020.11 – present
<b>Sun Yat-sen University</b> <i>Research Assistant, with Qinliang Su</i>	2019.03 – 2021.05

## Professional Service

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**Reviewer:** ACL 2021, NAACL 2021, ICML 2022-2024, ICLR 2025, and NeurIPS 2022-2023.

## Teaching

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- TA for COMP3314B Machine Learning, 2022 Spring and 2023 Spring, HKU

## Selected Awards

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**2022:** M. Braun Postgraduate Prize at the University of Hong Kong.  
**2021:** The University Postgraduate Fellowship at the University of Hong Kong.  
**2019:** The first-grade scholarship at Sun Yat-sen University.  
**2018:** The second-grade scholarship at Sun Yat-sen University.

## Skills

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**Programming Language & Tools:** Python, PyTorch, Triton, JAX