

# Lin Zheng

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## Education

**The University of Hong Kong**

2021.09 – present

*Ph.D. in Computer Science*

Advisor: Lingpeng Kong

**Sun Yat-sen University**

2017.09 – 2021.7

*B.E. in Software Engineering*

○ Overall GPA 4.0/4.0, Ranking 3/174

## Selected Publications

- [1] Jiacheng Ye, Zhihui Xie, **Lin Zheng**, Jiahui Gao, Zirui Wu, Xin Jiang, Zhenguo Li, and Lingpeng Kong. Dream 7b: Scalable diffusion language models, 2025.
- [2] **Lin Zheng**, Xueliang Zhao, Guangtao Wang, Chen Wu, David Dong, Angela Wang, Mingran Wang, Yun Du, Haige Bo, Amol Sharma, Bo Li, Kejia Zhang, Changran Hu, Urmish Thakker, and Lingpeng Kong. Evabyte: Efficient byte-level language models at scale, 2025.
- [3] Jiacheng Ye, Jiahui Gao, Shansan Gong, **Lin Zheng**, Xin Jiang, Zhenguo Li, and Lingpeng Kong. Beyond autoregression: Discrete diffusion for complex reasoning and planning. In *ICLR* 2025.
- [4] 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. Scaling diffusion language models via adaptation from autoregressive models. In *ICLR* 2025.
- [5] **Lin Zheng**, Jianbo Yuan, Zhi Zhang, Hongxia Yang, and Lingpeng Kong. Self-infilling code generation. In *ICML* 2024.
- [6] Jiacheng Ye, Shansan Gong, Liheng Chen, **Lin Zheng**, Jiahui Gao, Han Shi, Chuan Wu, Zhenguo Li, Wei Bi, and Lingpeng Kong. Diffusion of thoughts: Chain-of-thought reasoning in diffusion language models. In *NeurIPS* 2024.
- [7] **Lin Zheng**, Jianbo Yuan, Lei Yu, and Lingpeng Kong. A reparameterized discrete diffusion model for text generation. In *COLM* 2024.
- [8] **Lin Zheng**, Jianbo Yuan, Chong Wang, and Lingpeng Kong. Efficient attention via control variates. In *ICLR 2023 (oral)*.
- [9] **Lin Zheng**, Chong Wang, and Lingpeng Kong. Linear complexity randomized self-attention mechanism. In *ICML* 2022.
- [10] **Lin Zheng**, Huijie Pan, and Lingpeng Kong. Ripple attention for visual perception with sub-quadratic complexity. In *ICML* 2022.
- [11] **Lin Zheng**, Zhiyong Wu, and Lingpeng Kong. Cascaded head-colliding attention. In *ACL* 2021.

## Research Experience

**SambaNova Systems**

2024.02 – 2024.12

*Intern working with Urmish Thakker, Mingran Wang, and Yun Du*

**ByteDance Applied Machine Learning (AML) Research**

2023.04 – 2023.10

*Intern working with Jianbo Yuan and Zhi Zhang*

**ByteDance Applied Machine Learning (AML) Research**

2021.06 – 2022.08

*Intern working with Chong Wang and Jianbo Yuan*

**The University of Hong Kong**

2020.11 – present

*Research Assistant working with Lingpeng Kong*

**Sun Yat-sen University**

2019.03 – 2021.05

*Research Assistant working with Qinliang Su*

## Professional Service

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

## Teaching

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

## Selected Awards

**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.