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] 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. *arXiv:2410.17891*, 2024.

[2] **Lin Zheng**, Jianbo Yuan, Zhi Zhang, Hongxia Yang, and Lingpeng Kong. Self-infilling code generation. In *ICML 2024*.

[3] 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*.

[4] **Lin Zheng**, Jianbo Yuan, Lei Yu, and Lingpeng Kong. A reparameterized discrete diffusion model for text generation. In *COLM 2024*.

[5] **Lin Zheng**, Jianbo Yuan, Chong Wang, and Lingpeng Kong. Efficient attention via control variates. In *ICLR 2023 (oral)*.

[6] **Lin Zheng**, Chong Wang, and Lingpeng Kong. Linear complexity randomized self-attention mechanism. In *ICML 2022*.

[7] **Lin Zheng**, Huijie Pan, and Lingpeng Kong. Ripple attention for visual perception with sub-quadratic complexity. In *ICML 2022*.

[8] **Lin Zheng**, Qinliang Su, Dinghan Shen, and Changyou Chen. Generative semantic hashing enhanced via boltzmann machines. In *ACL 2020*.

Research Experience

SambaNova Systems   **2024.02 – present**
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.