Chenyu Zheng

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Education

Renmin University of China, Gaoling School of AI 2023 - Now
- *Ph.D. candidate*, supervised by Prof. **Chongxuan Li** Beijing, China
- *Research interests*: Theoretical foundation of large generative models

Wuhan University, School of Computer Science 2019 - 2023
- *Bachelor*, **Elite Class** Wuhan, China

Working Experience

ByteDance Inc., Seed Team 2024.11 - Now
- *Top Seed Talent Program* Beijing, China

Awards

Outstanding Innovative Talents Cultivation Funded Programs, Renmin University of China 2025
Outstanding Graduate, Wuhan University 2023
China National Scholarship 2020

Representative Papers

1. **Chenyu Zheng**, Xinyu Zhang, Rongzhen Wang, Wei Huang, Zhi Tian, Weilin Huang, Jun Zhu, Chongxuan Li. *Scaling Diffusion Transformers Efficiently via μP*. Advances in Neural Information Processing Systems (**NeurIPS**) 2025.
2. **Chenyu Zheng**, Wei Huang, Rongzhen Wang, Guoqiang Wu, Jun Zhu, Chongxuan Li. *On Mesa-Optimization in Autoregressively Trained Transformers: Emergence and Capability*. Advances in Neural Information Processing Systems (**NeurIPS**) 2024.
3. **Chenyu Zheng**, Guoqiang Wu, Chongxuan Li. *Toward Understanding Generative Data Augmentation*. Advances in Neural Information Processing Systems (**NeurIPS**) 2023.
4. **Chenyu Zheng**, Guoqiang Wu, Fan Bao, Yue Cao, Chongxuan Li, Jun Zhu. *Revisiting Discriminative vs. Generative Classifiers: Theory and Implications*. International Conference on Machine Learning (**ICML**) 2023.

Full Publications

† indicates the corresponding author and * indicates equal contribution.

1. **Chenyu Zheng**, Xinyu Zhang, Rongzhen Wang, Wei Huang, Zhi Tian, Weilin Huang, Jun Zhu, Chongxuan Li. *Scaling Diffusion Transformers Efficiently via μP*. Advances in Neural Information Processing Systems (**NeurIPS**) 2025.
2. Rongzhen Wang, Yan Zhang, **Chenyu Zheng**, Chongxuan Li, Guoqiang Wu. *A Theory for Conditional Generative Modeling on Multiple Data Sources*. International Conference on Machine Learning (**ICML**) 2025.
3. **Chenyu Zheng**, Wei Huang, Rongzhen Wang, Guoqiang Wu, Jun Zhu, Chongxuan Li. *On Mesa-Optimization in Autoregressively Trained Transformers: Emergence and Capability*. Advances in Neural Information Processing Systems (**NeurIPS**) 2024.
4. Rongzhen Wang, **Chenyu Zheng**, Guoqiang Wu, Xu Min, Xiaolu Zhang, Jun Zhou, Chongxuan Li. *Lower Bounds of Uniform Stability in Gradient-Based Bilevel Algorithms for Hyperparameter Optimization*. Advances in Neural Information Processing Systems (**NeurIPS**) 2024.
5. Shen Nie, Hanzhong Guo, Cheng Lu, Yuhao Zhou, **Chenyu Zheng**, Chongxuan Li. *The Blessing of Randomness: SDE Beats ODE in General Diffusion-based Image Editing*. International Conference on Learning Representations (**ICLR**) 2024.
6. **Chenyu Zheng**, Guoqiang Wu, Chongxuan Li. *Toward Understanding Generative Data Augmentation*. Advances in Neural Information Processing Systems (**NeurIPS**) 2023.

7. **Chenyu Zheng**, Guoqiang Wu, Fan Bao, Yue Cao, Chongxuan Li, Jun Zhu. *Revisiting Discriminative vs. Generative Classifiers: Theory and Implications*. International Conference on Machine Learning (**ICML**) 2023.
8. Ailong Ma, **Chenyu Zheng**†, Junjue Wang, Yanfei Zhong. *Domain Adaptive Land-Cover Classification via Local Consistency and Global Diversity*. IEEE Transactions on Geoscience and Remote Sensing (**TGRS**) 2023.
9. **Chenyu Zheng**, Junjue Wang, Ailong Ma, and Yanfei Zhong. *AutoLC: Search Lightweight and Top-Performing Architecture for Remote Sensing Image Land-Cover Classification*. International Conference on Pattern Recognition (**ICPR**) 2022.

Academic Services

Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**).
- IEEE Transactions on Signal Processing (**TSP**).

Conference Reviewer

- Advances in Neural Information Processing Systems (**NeurIPS**): 2024, 2025 (**Top Reviewer Award**).
- International Conference on Machine Learning (**ICML**): 2025.
- International Conference on Learning Representations (**ICLR**): 2025, 2026.
- International Conference on Artificial Intelligence and Statistics (**AISTATS**): 2025, 2026.

Conference Program Committee

- Association for the Advancement of Artificial Intelligence (**AAAI**): 2026.

Teaching

1. **Advanced Linear Algebra**, Teaching Assistant, 2025 Fall
2. **Probability and Randomized Algorithms**, Teaching Assistant, 2024 Fall