

Zhenglin Cheng

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Education

- Westlake University**, PhD in Computer Science – Hangzhou, China Sept 2024 – present
- **Research Field:** Multimodal efficient generation for image, video and beyond
 - **Advisor:** Prof. Tao Lin
- Zhejiang University**, BE in Major in Software Engineering; Minor in Advanced Honor Class of Engineering Education (ACEE) – Hangzhou, China Sept 2020 – June 2024
- **GPA:** 3.95/4.00

Experiences

- Research Intern**, Inclusion AI, Ant Group – Hangzhou, China July 2025 – present
- Developed efficient few-step and fast diffusion models for high-quality image generation and editing tasks.
 - Integrated the technology to internal *Lingguang* product team, accelerating models in live production environment.
- Research Intern**, Baichuan AI – Beijing, China July 2024 – Oct 2024
- Conducted benchmarking for Baichuan-Omni across text, image, audio, and video modalities and drafted technical report.

Selected Publications

- TwinFlow: Realizing One-step Generation on Large Models with Self-adversarial Flows** 2025
Zhenglin Cheng*, Peng Sun* (project leader), Jianguo Li, Tao Lin
arxiv.org/abs/2512.05150 ↗ (ICLR 2026, Github stars 462, 11K model downloads in one month)
- Dynamic Mixture of Experts: An Auto-Tuning Approach for Efficient Transformer Models** 2025
Yongxin Guo*, Zhenglin Cheng*, Xiaoying Tang, Zhaopeng Tu, Tao Lin
arxiv.org/abs/2405.14297 ↗ (ICLR 2025)
- GMem: A Modular Approach for Ultra-Efficient Generative Models** 2024
Yi Tang*, Peng Sun*, Zhenglin Cheng*, Tao Lin
arxiv.org/abs/2412.08781 ↗ (arXiv preprint)
- Multimodal Self-Instruct: Synthetic Abstract Image and Visual Reasoning Instruction Using Language Model** 2024
Wenqi Zhang*, Zhenglin Cheng*, et.al.
arxiv.org/abs/2407.07053 ↗ (EMNLP 2024)

Misc

- **Research Interests:** My long-term research goal is to build efficient multimodal agents that can understand the physical world, reason on real-world problems, and generate novel ideas, which could also learn from experience and evolve themselves in the constantly changing environment.
- **Academic Services:** Reviewer for ICLR 2026

Selected Honors

- Outstanding Graduate, Zhejiang University (2024)
- Outstanding Engineer Scholarship of Software Engineering (2024)
- Chiang Chen Overseas Fellowship (2024)