

# Liangbing Zhao

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## Research Interest

- ◇ **Generative Models:** Advancing and applying generative models, such as diffusion models and flow matching models, with a focus on improving their architectures and exploring innovative applications.
- ◇ **Unified Models:** Developing models that integrate generative and understanding tasks, with an emphasis on leveraging understanding capabilities to enhance generative performance.

## Education

- **King Abdullah University of Science and Technology**, Saudi Arabia. Jan. 2026 – present  
Ph.D., Computer Science, supervised by Prof. Mohamed Elhoseiny.
- **King Abdullah University of Science and Technology**, Saudi Arabia. Aug. 2024 – Dec. 2025  
M.Sc., Computer Science. GPA: 3.71/4.0 (M.S./Ph.D. program)  
Thesis title: Toward Reflective and Self-Improving Generative Models
- **Beihang University**, China. Sept. 2019 – Jun. 2024  
B.S., Computer Science and Technology, supervised by Prof. Si Liu.

## Experience

- ◇  **Visiting Research Student**, KAUST. Jul. 2023 - Mar. 2024, Saudi Arabia  
Prof. Mohamed Elhoseiny's group  
Structured image generation with diffusion bridge
- ◇  **Computer Vision Research Engineer**, Meitu. Jul. 2022 - May 2023, China  
Dr. Xuecheng Nie, MT Lab  
Video generation with hierarchical diffusion model

## Publications

- 1 **Liangbing Zhao**, L. Zhuo, S. Paul, H. Li, and M. Elhoseiny, "From statics to dynamics: Physics-aware image editing with latent transition priors," [ICML 2026].
- 2 L. Zhuo\*, **Liangbing Zhao**\*, S. Paul, Y. Liao, R. Zhang, Y. Xin, P. Gao, M. Elhoseiny, and H. Li, "From reflection to perfection: Scaling inference-time optimization for text-to-image diffusion models via reflection tuning," [ICCV 2025].
- 3 Z. Yang, J. Chen, D. Xu, J. Fei, X. Shen, **Liangbing Zhao**, C.-M. Feng, and M. Elhoseiny, "Wikiautogen: Towards multi-modal wikipedia-style article generation," in *Proceedings of the IEEE/CVF International Conference on Computer Vision*, [ICCV 2025].
- 4 E. M. Bakr, **Liangbing Zhao**, V. T. Hu, M. Cord, P. Perez, and M. Elhoseiny, "Toddlerdiffusion: Interactive structured image generation with cascaded schrödinger bridge," in *The Thirteenth International Conference on Learning Representations*, [ICLR 2025].

## Skills

- ◇ **Languages:** Chinese, English (ET-4, CET-6, TOEFL 103).
- ◇ **Coding:** C++, Python, JAVA, LATEX, Git, Pytorch

## Awards

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- ◇ KAUST Graduate Scholarship. 2024 - present
- ◇ Learning Merit Scholarship. 2022
- ◇ Beihang University Excellent Student. 2020
- ◇ Special Prize for Learning Merit Scholarship. 2020