

# Hui Zhang

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## EDUCATION

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- **Fudan University, Shanghai, China** Sept. 2021 – Jul. 2026 (expected)  
Ph.D. in Computer Science and Technology  
Advisor: **Prof. Zuxuan Wu** and **Prof. Yu-Gang Jiang**  
Research: **Image Generation**, Video Generation, Vision-Language Models, Anomaly Detection.

## RESEARCH EXPERIENCE

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- **Huawei**, Central Media Technology Institute, Research Intern Mar. 2022 - Mar. 2023  
Project: Anomaly Detection
- **ByteDance**, Intelligent Creation, Research Intern Jan. 2024 - Present  
Project: Efficient and Controllable Image Generation

## SELECTED PUBLICATIONS

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- CreatiDesign: A Unified Multi-Conditional Diffusion Transformer for Creative Graphic Design.**  
[\[pdf\]](#) [\[code\]](#)  
**Hui Zhang**, Dexiang Hong, Maoke Yang, Yutao Cheng, Zhao Zhang, Jie Shao, Xinglong Wu, Zuxuan Wu, Yu-Gang Jiang  
In Submission.
- CreatiLayout: Siamese Multimodal Diffusion Transformer for Creative Layout-to-Image Generation.**  
[\[pdf\]](#) [\[code\]](#)  
**Hui Zhang**, Dexiang Hong, Tingwei Gao, Yiyong Wang, Jie Shao, Xinglong Wu, Zuxuan Wu, Yu-Gang Jiang  
International Conference on Computer Vision (**ICCV**), 2025.
- BlockDance: Reuse Structurally Similar Spatio-Temporal Features to Accelerate Diffusion Transformers.**  
**Hui Zhang**, Tingwei Gao, Jie Shao, Zuxuan Wu.  
Conference on Computer Vision and Pattern Recognition (**CVPR**), 2025.
- AdaDiff: Adaptive Step Selection for Fast Diffusion Models.** [\[pdf\]](#)  
**Hui Zhang**, Zuxuan Wu, Zhen Xing, Jie Shao, Yu-Gang Jiang.  
Association for the Advancement of Artificial Intelligence Conference (**AAAI**), 2025.
- DiffusionAD: Norm-guided One-step Denoising Diffusion for Anomaly Detection.** [\[pdf\]](#) [\[code\]](#)  
**Hui Zhang**, Zheng Wang, Zuxuan Wu, Yu-Gang Jiang.  
IEEE Transactions on Pattern Analysis and Machine Intelligence, (**TPAMI**), 2025.
- Prototypical Residual Networks for Anomaly Detection and Localization.** [\[pdf\]](#)  
**Hui Zhang**, Zuxuan Wu, Zheng Wang, Zhineng Chen, Yu-Gang Jiang.  
Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023.
- Seg2Any: Open-set Segmentation Mask-to-Image Generation with Precise Shape and Semantic Control.**  
Danfeng Li, **Hui Zhang**, Sheng Wang, Jiacheng Li, Zuxuan Wu  
In Submission.

## MagicMotion: Controllable Video Generation with Dense-to-Sparse Trajectory Guidance.

Quanhao Li, Zhen Xing, Rui Wang, **Hui Zhang**, Qi Dai, Zuxuan Wu

International Conference on Computer Vision (**ICCV**), 2025.

## AWARDS AND HONORS

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- First Class Award Scholarship, Fudan University (Top 10%) Dec. 2023
- Excellent Academic Scholarship, Fudan University (Top 5%) Dec. 2022
- Perfect Score (150/150) in Mathematics, Nationwide Master's Program Unified Admissions Examination (Top 0.1%) Mar. 2021
- National Scholarship of China (Top 1%) Dec. 2019
- Second Prizes, 15th 'BoChuang Cup' National Students Embedded Design Contest (Top 3%) Jul. 2019
- Second Prizes, 10th "Blue Bridge Cup" National C/C++ Programming Contest (Top 2%) May. 2019

## SKILLS

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- **Programming Languages** Python, C/C++
- **Tools** Pytorch, Git, LaTeX

## ACADEMIC SERVICES

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- Reviewer: CVPR, ICCV, ECCV, NeurIPS, ICML, ICLR.
- Teaching Assistant: Artificial Intelligence at Fudan University