Hui Zhang

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EDUCATION

▶ **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

▶ **Huawei**, Central Media Technology Institute, Research Intern   Mar. 2022 - Mar. 2023
Mentor: Yang Hu
Project: Anomaly Detection

▶ **ByteDance**, Intelligent Creation, Research Intern   Jan. 2024 - Present
Mentor: Jie Shao
Project: Efficient and Controllable Image Generation

SELECTED PUBLICATIONS

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
In Submission.

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.

AWARDS AND HONORS

▶ 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

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

ACADEMIC SERVICES

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