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<https://betterze.github.io/website/>

Zongze (Alex) Wu

Research Interests

Generative Modeling (diffusion models, GANs, autoregressive models)

Training efficiency, simpler training frameworks, and efficient architecture design

WORKING EXPERIENCE

Adobe Research

Research Scientist/Engineer 2

Jan 2025 - Now

- Few step models (iMF/DMD)
- Training efficiency (iREPA, Raev2)

Research Scientist/Engineer 1

Jan 2023 - Jan 2025

- Structure reference image in Adobe Firefly
- Real-time scribble to image generation
 - Presented in the Artistic Aurora project at MAX Sneak 2023
 - Presented in the Hi-Fi project at MAX Sneak 2024
 - Presented at Adobe Summit Sneak 2025
- Real-time text-based image editing
 - First author paper in ECCV 2024
 - Presented by head of Adobe Research at the 2024 Research Mid-Year All Hands
 - Presented by CEO at the Q3 CTO All Hands 2024
 - Presented by the Stock team at GenAI Summit II 2024

EDUCATION

Hebrew University of Jerusalem – *M.S & Ph.D 2016-2022*

Advisor: Prof. Dani Lischinski from Computer Science, HUJI

Eli Shechtman from Adobe Research

Tongji University – *B.S. 2011-2016*

AWARDS

Research fellowship from Center for Interdisciplinary Data Science Research (2021/2022)

INFORMS O.R. & Analytics Student Team Competition, First Prize (2018)

National College Students Mathematical Contest in Modeling (Shanghai area) Third Prize (2014)
National Undergraduate Innovation Programs Certificate (2014)
One Asia Foundation Scholarship Third Prize (2013)

Publications

- [15] Jaskirat Singh, Boyang Zheng, Zongze Wu, Richard Zhang, Eli Shechtman, Saining Xie. Improved Baselines with Representation Autoencoders. arXiv 2026
- [14] Shivam Duggal, Xingjian Bai, Zongze Wu, Richard Zhang, Eli Shechtman, Antonio Torralba, Phillip Isola. End-to-End Training for Unified Tokenization and Latent Denoising. arXiv 2026
- [13] Xingjian Bai, Guande He, Zhengqi Li, Eli Shechtman, Xun Huang, Zongze Wu. **Causality in Video Diffusers is Separable from Denoising.** arXiv 2026
- [12] Jaskirat Singh, Xingjian Leng, Zongze Wu, Liang Zheng, Richard Zhang, Eli Shechtman, Saining Xie. **What Matters for Representation Alignment: Global Information or Spatial Structure?** arXiv 2025
- [11] Zhengyang Geng, Yiyang Lu, Zongze Wu, Eli Shechtman, J. Zico Kolter, Kaiming He. **Improved Mean Flows: On the Challenges of Fastforward Generative Models.** arXiv 2025
- [10] Shelly Golan, Yotam Nitzan, Zongze Wu, Or Patashnik. **VLM-Guided Adaptive Negative Prompting for Creative Generation.** arXiv 2025
- [9] Liangbin Xie, Daniil Pakhomov, Zhonghao Wang, Zongze Wu, Ziyang Chen, Yuqian Zhou, Haitian Zheng, Zhifei Zhang, Zhe Lin, Jiantao Zhou, Chao Dong. **TurboFill: Adapting Few-step Text-to-image Model for Fast Image Inpainting.** CVPR 2025
- [8] Rohit Gandikota, [Zongze Wu](#), Richard Zhang, David Bau, Eli Shechtman, Nicholas Kolkin. **SliderSpace: Decomposing the Visual Capabilities of Diffusion Models.** ICCV 2025
- [7] [Zongze Wu](#), Nicholas Kolkin, Jonathan Brandt, Richard Zhang, Eli Shechtman. **TurboEdit: Instant text-based image editing.** ECCV 2024
- [6] Yotam Nitzan, [Zongze Wu](#), Richard Zhang, Eli Shechtman, Daniel Cohen-Or, Taesung Park, Michaël Gharbi. **Lazy diffusion transformer for interactive image editing.** ECCV 2024
- [5] Yuval Alaluf, Or Patashnik, [Zongze Wu](#), Asif Zamir, Eli Shechtman, Dani Lischinski, Daniel Cohen-Or. **Third time's the charm? Image and video editing with StyleGAN3.** AIM ECCVW 2022
- [4] [Zongze Wu](#), Yotam Nitzan, Eli Shechtman, Dani Lischinski. **StyleAlign: Analysis and applications of aligned StyleGAN models.** ICLR 2022 Oral
- [3] [Zongze Wu](#), Dani Lischinski, Eli Shechtman. **StyleSpace analysis: Disentangled controls for StyleGAN image generation.** CVPR 2021 Oral
- [2] Or Patashnik*, [Zongze Wu*](#), Eli Shechtman, Daniel Cohen-Or, Dani Lischinski. **StyleCLIP: Text-driven manipulation of StyleGAN imagery.** ICCV 2021 Oral
- [1] [Zongze Wu](#), Dani Lischinski, Eli Shechtman. **Fine-grained foreground retrieval via teacher-student learning.** WACV 2021