Peihao Zhu

peihao.zhu@kaust.edu.sa | Google Scholar | https://zpdesu.github.io

MODE	EXPERIENCE
VV()RK	EXPERIENCE

Seed Team, ByteDance San Jose, CA Senior Research Scientist Sep 2024 - present

Seed Team, ByteDance San Jose, CA Research Scientist Jul 2023 - Aug 2024

Reality Lab, Meta Burlingame, CA Oct 2022 - Feb 2023 Research Scientist Intern

Creative Vision Lab, Snap Los Angeles, CA

Research Scientist Intern May 2022 - Sep 2022

EDUCATION

King Abdullah University of Science and Technology (KAUST) Kingdom of Saudi Arabia

PhD in Computer Science

Dec 2019 - Jun 2023

King Abdullah University of Science and Technology (KAUST) Kingdom of Saudi Arabia Master of Science in Computer Science Aug 2017 - Dec 2019

Institute of Automation, Chinese Academy of Sciences China

Master candidate in Computer Science Sep 2016 - Jul 2017

Northeastern University

Bachelor of Technology in Automation; GPA: 90.0/100; Rank: top 5% Aug 2012 - Jun 2016

PROJECTS

ByteDance Doubao Video Generative Model - Unicorn (Development Phase)

ByteDance Seed Team: PixelDance × Seaweed (Dec 2024 - present)

ByteDance Doubao Video Generative Model - Seaweed

ByteDance Seed Team (Mar 2024 - Nov 2024) [Blog] [Video] [Website]

Tiktok AI-moji

Virtual Avatar Team (Jul 2023 - Dec 2024) [Blog] [Platform]

PUBLICATIONS

3DAvatarGAN: Bridging Domains for Personalized Editable Avatars

Rameen Abdal, Hsin-Ying Lee, Peihao Zhu, Menglei Chai, Aliaksandr Siarohin, Peter Wonka, Sergey Tulyakov

Proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023 [Paper] [Webpage]

HairNet: Hairstyle Transfer with Pose Changes

Peihao Zhu, Rameen Abdal, John Femiani, Peter Wonka

Proc. European Conference on Computer Vision (ECCV), 2022 [Paper] [Webpage]

CLIP2StyleGAN: Unsupervised Extraction of StyleGAN Edit Directions

Rameen Abdal, Peihao Zhu, John Femiani, Niloy Mitra, Peter Wonka

SIGGRAPH Conference Proceedings, 2022 [Paper] [Webpage]

Mind the Gap: Domain Gap Control for Single Shot Domain Adaptation

for Generative Adversarial Networks

Peihao Zhu, Rameen Abdal, John Femiani, Peter Wonka

International Conference on Learning Representations (ICLR), 2022 [Paper] [Webpage]

Barbershop: GAN-based Image Compositing using Segmentation Masks

Peihao Zhu, Rameen Abdal, John Femiani, Peter Wonka

ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2021 [Paper] [Webpage]

Improved StyleGAN Embedding: Where are the Good Latents?

Peihao Zhu, Rameen Abdal, Yipeng Qin, John Femiani, Peter Wonka

ArXiv pre-print, 2021 [Paper] [Webpage]

Styleflow: Attribute-conditioned exploration of stylegan-generated images using conditional continuous normalizing flows

Rameen Abdal, <u>Peihao Zhu</u>, Niloy Mitra, Peter Wonka

ACM Transactions on Graphics (TOG), 2021 [Paper] [Webpage]

Labels4Free: Unsupervised Segmentation using StyleGAN

Rameen Abdal, Peihao Zhu, Niloy J. Mitra, Peter Wonka

Proc. IEEE International Conference on Computer Vision (ICCV), 2021 [Paper] [Webpage]

Flow-Guided Video Inpainting with Scene Templates

Dong Lao, Peihao Zhu, Peter Wonka, Ganesh Sundaramoorthi

Proc. IEEE International Conference on Computer Vision (ICCV), 2021 [Paper] [Webpage]

SEAN: Image Synthesis with Semantic Region-Adaptive Normalization

Peihao Zhu, Rameen Abdal, Yipeng Qin, Peter Wonka

Proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR Oral), 2020 [Paper] [Webpage]

Large Scale Architecture Asset Extraction from Panoramic Imagery

Peihao Zhu, Wamiq Reyaz Para, Anna Fruehstueck, John Femiani, Peter Wonka

IEEE Transactions on Visualization and Computer Graphics (TVCG), 2020 [Paper] [Webpage]

AWARD & ACHIEVEMENTS

• KAUST CEMSE Dean's List Award 2021-2022

- National Scholarship 2013
- KAUST Fellowship 2017
- UCAS Scholarship 2016
- Scholarship for Outstanding Merits 2012-2016

SCIENTIFIC REFEREES

Prof. Peter Wonka

Full Professor, Visual Computing Center, KAUST peter.wonka@kaust.edu.sa http://peterwonka.net