Peihao Zhu

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| Work | EADED | IENCE |
|--------|-------------|---------------|
| VVUJKK | P. A P P. K | 1 5.13 (. 5. |

Seed Team, ByteDanceSan Jose, CASenior Research ScientistSep 2024 - present

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

Reality Lab, Meta

Burlingame, CA

Research Scientist Intern

Oct 2022 - Feb 2023

Creative Vision Lab, SnapLos Angeles, CAResearch Scientist InternMay 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)

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
China

Bachelor of Technology in Automation; GPA: 90.0/100; Rank: top 5%

Aug 2012 - Jun 2016

PROJECTS

ByteDance Video Generation Foundation Model - Unicorn (Development Phase)

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

ByteDance Video Generation Foundation Model - Seaweed

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

Tiktok AI-moji

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

PUBLICATIONS

Seaweed-7B: Cost-Effective Training of Video Generation Foundation Model

ByteDance Seed

Technical Report, 2025 [Paper] [Webpage]

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

<u>Peihao Zhu</u>, 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

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