# Peihao Zhu

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Work	<b>EXPERIENCE</b>
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Seed Team, ByteDanceSan Jose, CASenior Research ScientistSep 2024 - present

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Seed Team, ByteDanceSan Jose, CAResearch ScientistJul 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

Kingdom of Saudi Arabia

Kingdom of Saudi Arabia

Dec 2019 - Jun 2023

Aug 2017 - Dec 2019

Sep 2016 - Jul 2017

Aug 2012 - Jun 2016

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China

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**EDUCATION** 

King Abdullah University of Science and Technology (KAUST)

PhD in Computer Science

King Abdullah University of Science and Technology (KAUST)

Master of Science in Computer Science

Institute of Automation, Chinese Academy of Sciences

Master candidate in Computer Science

Northeastern University

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

**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)

Tiktok AI-moji

Virtual Avatar Team (Jul 2023 - Dec 2024)

**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

HairNet: Hairstyle Transfer with Pose Changes

<u>Peihao Zhu</u>, Rameen Abdal, John Femiani, Peter Wonka

Proc. European Conference on Computer Vision (ECCV), 2022

CLIP2StyleGAN: Unsupervised Extraction of StyleGAN Edit Directions

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

SIGGRAPH Conference Proceedings, 2022

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

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