

Rameen Abdal

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Education and Training

Stanford University

POSTDOCTORAL FELLOW AT STANFORD COMPUTATIONAL IMAGING LAB

Palo Alto, USA

June. 2023 - April. 2024

King Abdullah University of Science and Technology (KAUST)

MS/PHD COMPUTER SCIENCE (GPA: 3.93/4.00)

Thuwal, Saudi Arabia

MS: Sept. 2018 - June. 2020; Ph.D.: June. 2020 - Feb. 2023

National Institute of Technology (NIT) Srinagar

B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING (CGPA : 9.137/10 | OVERALL RANK: 2ND)

Srinagar, India

Aug. 2014 - June 2018

Relevant Experience

Snap Inc.

RESEARCH SCIENTIST

Palo Alto, USA

Sept 2024 - present

Working on Image and Video Personalization. Encoding identities, motions and micro-expressions from videos to generate personalized content.

Snap Inc.

RESEARCH INTERN

Los Angeles, USA

June 2022 - Oct. 2022

Worked on a project titled 3DAvatarGAN. The proposed method converts a single image into a desired personalized 3D avatar that is animatable. The project is published at CVPR 2023.

Adobe Research

REMOTE COLLABORATOR

London, UK

March 2020 - May 2022

Worked on a project titled StyleFlow. The proposed image editing software can semantically edit an image. GAN-generated images are supported. The project is published at TOG 2021.

Indian Institute Of Science (IISc) Bangalore

COMPUTER VISION RESEARCH INTERN

Bangalore, India

Nov. 2016 - Feb. 2017

Worked on a project that segments roads for UAV-captured images with high fidelity. The work is published at JARS.

Talks

Stanford Computational Imaging Lab

EXTRACTING SEMANTICS, GEOMETRY, AND APPEARANCE USING GANS

Stanford, USA (Remote)

Dec. 2022

Rising Stars in AI Symposium (organized by Jurgen Schmidhuber)

EXTRACTING SEMANTICS, GEOMETRY, AND APPEARANCE USING GANS

KAUST, Saudi Arabia

March 2022

Adobe Research

EXTRACTING SEMANTICS, GEOMETRY, AND APPEARANCE USING STYLEGAN

San Jose, USA (Remote)

Feb. 2022

Publications

- **Rameen Abdal**, Or Patashnik, Ekaterina Deyneka, Hao Chen, Aliaksandr Siarohin, Sergey Tulyakov, Daniel Cohen-Or, Kfir Aberman
“Zero-Shot Dynamic Concept Personalization with Grid-Based LoRA”
Snap Research
SIGGRAPH ASIA 2025 [\[Paper\]](#) [\[Project Page\]](#)
- **Rameen Abdal**, Or Patashnik, Ivan Skorokhodov, Willi Menapace, Aliaksandr Siarohin, Sergey Tulyakov, Daniel Cohen-Or, Kfir Aberman
“Dynamic Concepts Personalization from Single Videos”
Snap Research
SIGGRAPH 2025 [\[Paper\]](#) [\[Project Page\]](#)
- Ivan Skorokhodov, Sharath Girish, Benran Hu, Willi Menapace, Yanyu Li, **Rameen Abdal**, Sergey Tulyakov, Aliaksandr Siarohin
“Improving the Diffusability of Autoencoders”
Snap Research, CMU
ICML 2025 [\[Paper\]](#) [\[Project Page\]](#)
- Amil Dravid, Yossi Gandelsman, Kuan-Chieh Wang, **Rameen Abdal**, Gordon Wetzstein, Alexei A. Efros, Kfir Aberman
“Interpreting the Weight Space of Customized Diffusion Models”
Stanford University, University of California Berkeley, Snap Research
NeurIPS 2024 [\[Paper\]](#) [\[Project Page\]](#)
- **Rameen Abdal***, Wang Yifan*, Zifan Shi*, Yinghao Xu, Ryan Po, Zhengfei Kuang, Qifeng Chen, Dit-Yan Yeung, and Gordon Wetzstein
“Gaussian Shell Maps for Efficient 3D Human Generation”
Stanford University, HKUST
IEEE/CVF CVPR 2024 [\[Paper\]](#) [\[Project Page\]](#)
- **Rameen Abdal**, Hsin-Ying Lee, Peihao Zhu, Menglei Chai, Aliaksandr Siarohin, Peter Wonka, and Sergey Tulyakov
“3DAvatarGAN: Bridging Domains for Personalized Editable Avatars”
Snap Research, KAUST
IEEE/CVF CVPR 2023 [\[Paper\]](#) [\[Project Page\]](#)
- **Rameen Abdal**, Peihao Zhu, Niloy Mitra, Peter Wonka
“Video2StyleGAN: Disentangling Local and Global Variations in a Video”
KAUST, UCL, Adobe
arXiv 2022 [\[Paper\]](#) [\[Video\]](#)
- Peihao Zhu, **Rameen Abdal**, John Femiani, Peter Wonka
“HairNet: Hairstyle Transfer with Pose Changes”
KAUST, Miami University
ECCV 2022 [\[Paper\]](#) [\[Video\]](#)
- **Rameen Abdal**, Peihao Zhu, John Femiani, Niloy Mitra, Peter Wonka
“CLIP2StyleGAN: Unsupervised Extraction of StyleGAN Edit Directions”
KAUST, Miami University, UCL, Adobe
ACM SIGGRAPH 2022 [\[Paper\]](#) [\[Video\]](#)
- Peihao Zhu, **Rameen Abdal**, John Femiani, Peter Wonka
“Mind the Gap: Domain Gap Control for Single Shot Domain Adaptation for Generative Adversarial Networks”
KAUST, Miami University
ICLR 2022 [\[Paper\]](#) [\[Video\]](#)
- Peihao Zhu, **Rameen Abdal**, John Femiani, Peter Wonka
“Barbershop: GAN-based Image Compositing using Segmentation Masks”
KAUST, Miami University
ACM SIGGRAPH Asia 2021 [\[Paper\]](#) [\[Project Page\]](#) [\[Video\]](#) [\[Media Attention\]](#)
- **Rameen Abdal**, Peihao Zhu, Niloy Mitra, Peter Wonka
“Labels4Free: Unsupervised Segmentation using StyleGAN”
KAUST, UCL, Adobe
IEEE/CVF ICCV 2021 [\[Paper\]](#) [\[Project Page\]](#)

- Peihao Zhu, **Rameen Abdal**, John Femiani, Yipeng Qin, Peter Wonka
 “Improved StyleGAN Embedding: Where are the Good Latents?”
 KAUST, Miami University
 arXiv 2020 [\[Paper\]](#) [\[Video\]](#)
- **Rameen Abdal**, Peihao Zhu, Niloy Mitra, Peter Wonka
 “StyleFlow: Attribute-conditioned Exploration of StyleGAN-Generated Images using Conditional Continuous Normalizing Flows”
 KAUST, UCL, Adobe
 ACM TOG (ACM SIGGRAPH 2021) [\[Paper\]](#) [\[Project Page\]](#) [\[Video\]](#) [\[Media Attention\]](#)
- **Rameen Abdal**, Yipeng Qin, Peter Wonka
 “Image2StyleGAN++: How to Edit the Embedded Images?”
 KAUST
 IEEE/CVF CVPR 2020. [\[Paper\]](#) [\[Video\]](#)
- Peihao Zhu, **Rameen Abdal**, Yipeng Qin, Peter Wonka
 “SEAN: Image Synthesis with Semantic Region-Adaptive Normalization”
 KAUST
 IEEE/CVF CVPR 2020 [Oral (top 5.7% of the total submissions)]. [\[Paper\]](#) [\[Video\]](#)
- **Rameen Abdal**, Yipeng Qin, Peter Wonka
 “Image2StyleGAN: How to Embed Images Into the StyleGAN Latent Space?”
 KAUST
 IEEE/CVF ICCV 2019 [Oral (top 4.3% of the total submissions)]. [\[Paper\]](#) [\[Oral Video\]](#)

Patents and Deployments

- **US Patent (Patent pending): “AVATAR GENERATION ACCORDING TO ARTISTIC STYLES”.**
Inventors : Rameen Abdal, Menglei Chai, Hsin-Ying Lee, Aliaksandr Siarohin, Sergey Tulyakov, Peihao Zhu
- **US Patent (US 16934858): “ATTRIBUTE CONDITIONED IMAGE GENERATION”.**
Inventors : Rameen Abdal, Peter Wonka, Niloy Mitra, Peihao Zhu

Achievements

Winner

KAUST RESEARCH EXCELLENCE AWARD

KAUST, Saudi Arabia

Nov. 2021

Winner

KAUST CEMSE DEAN’S LIST AWARD

KAUST, Saudi Arabia

June 2022

Position of Responsibility

Project Mentor

COMPUTATIONAL IMAGING (EE367/ CS448I)

Stanford University

2024

Teaching Assistant

DEEP LEARNING FOR VISUAL COMPUTING (CS 390DD/ CS 323)

KAUST, Saudi Arabia

Fall 2019, 2020, 2021

Reviewer & Committee member

SIGGRAPH ASIA 25 (TPC MEMBER) | EUROGRAPHICS 24 (IPC) | ICML 24 | TOG | TVCG | TPAMI | AAAI 22-24 |
 NEURIPS 23 | ICLR 24 | CVPR 21-23 | ICCV 21/23 | ECCV 22 | SIGGRAPH 21 - 24 | SIGGRAPH ASIA 21-23

2020 - 2025