

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

Working on Image and Video Personalization.

Palo Alto, USA

Sept 2024 - present

Snap Inc.

RESEARCH INTERN

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.

Los Angeles, USA

June 2022 - Oct. 2022

Adobe Research

REMOTE COLLABORATOR

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.

London, UK

March 2020 - May 2022

Indian Institute Of Science (IISc) Bangalore

COMPUTER VISION RESEARCH INTERN

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

Bangalore, India

Nov. 2016 - Feb. 2017

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, Piehao Zhu

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

Achievements

Winner

KAUST RESEARCH EXCELLENCE AWARD

KAUST, Saudi Arabia

Nov. 2021

Winner

KAUST CEMSE DEAN'S LIST AWARD

KAUST, Saudi Arabia

June 2022

Publications

- **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”
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”
IEEE/CVF CVPR 2023 [\[Paper\]](#) [\[Project Page\]](#)
- **Rameen Abdal**, Peihao Zhu, Niloy Mitra, Peter Wonka
“Video2StyleGAN: Disentangling Local and Global Variations in a Video” arXiv 2022 [\[Paper\]](#) [\[Video\]](#)
- Peihao Zhu, **Rameen Abdal**, John Femiani, Peter Wonka
“HairNet: Hairstyle Transfer with Pose Changes”
ECCV 2022 [\[Paper\]](#) [\[Video\]](#)
- **Rameen Abdal**, Peihao Zhu, John Femiani, Niloy Mitra, Peter Wonka
“CLIP2StyleGAN: Unsupervised Extraction of StyleGAN Edit Directions”
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”
ICLR 2022 [\[Paper\]](#) [\[Video\]](#)
- Peihao Zhu, **Rameen Abdal**, John Femiani, Peter Wonka
“Barbershop: GAN-based Image Compositing using Segmentation Masks”
ACM SIGGRAPH Asia 2021 [\[Paper\]](#) [\[Project Page\]](#) [\[Video\]](#) [\[Media Attention\]](#)
- **Rameen Abdal**, Peihao Zhu, Niloy Mitra, Peter Wonka
“Labels4Free: Unsupervised Segmentation using StyleGAN”
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?” 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”
ACM TOG (ACM SIGGRAPH 2021) [\[Paper\]](#) [\[Project Page\]](#) [\[Video\]](#) [\[Media Attention\]](#)
- **Rameen Abdal**, Yipeng Qin, Peter Wonka
“Image2StyleGAN++: How to Edit the Embedded Images?”
IEEE/CVF CVPR 2020. [\[Paper\]](#) [\[Video\]](#)
- Peihao Zhu, **Rameen Abdal**, Yipeng Qin, Peter Wonka
“SEAN: Image Synthesis with Semantic Region-Adaptive Normalization”
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?”
IEEE/CVF ICCV 2019 [Oral (top 4.3% of the total submissions)]. [\[Paper\]](#) [\[Oral Video\]](#)

Position of Responsibility

Teaching Assistant

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

KAUST, Saudi Arabia

Fall 2019, 2020, 2021

Reviewer & Program Chair (PC)

EUROGRAPHICS 24 (PC) | 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, 2021, 2022, 2023, 2024