

# Rameen Abdal

Palo Alto, Stanford University, USA

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📷 RameenAbdal

## 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

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- Amil Dravid, Yossi Gandelsman, Kuan-Chieh Wang, **Rameen Abdal**, Gordon Wetzstein, Alexei A. Efros, Kfir Aberman  
“Interpreting the Weight Space of Customized Diffusion Models”  
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”  
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

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## 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*