

Rameen Abdal

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📁 RameenAbdal

Education

King Abdullah University of Science and Technology (KAUST)

PHD COMPUTER SCIENCE (GPA: 4.00/4.00)

Thuwal, Saudi Arabia

May 2020 - Present

King Abdullah University of Science and Technology (KAUST)

MS COMPUTER SCIENCE (GPA: 3.92/4.00)

Thuwal, Saudi Arabia

Sept. 2018 - May 2020

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

Publications

- Rameen Abdal, Peihao Zhu, Niloy Mitra, Peter Wonka
“Video2StyleGAN: Disentangling Local and Global Variations in a Video” arXiv [\[Paper\]](#)
- Rameen Abdal, Peihao Zhu, John Femiani, Niloy Mitra, Peter Wonka
“CLIP2StyleGAN: Unsupervised Extraction of StyleGAN Edit Directions”
Siggraph 2022 [\[Paper\]](#)
- 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”
Siggraph Asia 2021 [\[Paper\]](#) [\[Video\]](#)
- Rameen Abdal, Peihao Zhu, Niloy Mitra, Peter Wonka
“Labels4Free: Unsupervised Segmentation using StyleGAN”
IEEE/CVF ICCV 2021 [\[Paper\]](#)
- Peihao Zhu, Rameen Abdal, John Femiani, Yipeng Qin, Peter Wonka
“Improved StyleGAN Embedding: Where are the Good Latents?” arXiv 2020 [\[Paper\]](#)
- Rameen Abdal, Peihao Zhu, Niloy Mitra, Peter Wonka
“StyleFlow: Attribute-conditioned Exploration of StyleGAN-Generated Images using Conditional Continuous Normalizing Flows”
ACM Transactions on Graphics (TOG) (Siggraph 2021) [\[Paper\]](#) [\[Video\]](#) [\[Media Attention\]](#)
- 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)]. [\[Paper\]](#) [\[Oral Video\]](#)
- Ramesh Kestur, Shariq Farooq, Rameen Abdal, Emad Qadri, Omkar Narasipura, Meenavathi Mudigere
“UFCN : A Fully Convolutional Neural Network for road extraction in RGB imagery acquired by remote sensing from a UAV”
JARS, SPIE 2018. [\[Paper\]](#).

Talks

Rising Stars in AI Symposium (organized by Jurgen Schmidhuber)

KAUST, Saudi Arabia

EXTRACTING SEMANTICS, GEOMETRY, AND APPEARANCE USING GANS

March, 2022

Adobe Research

San Jose, USA (Remote)

EXTRACTING SEMANTICS, GEOMETRY, AND APPEARANCE USING STYLEGAN

Feb. 2022

Relevant Experience

Snap Inc.

RESEARCH INTERN

June 2022 - present

- Ongoing

Adobe Research

REMOTE COLLABORATOR

March 2020 - May 2022

- Developed [StyleFlow](#), a state-of-the-art image editing software based on StyleGAN.

Indian Institute Of Science (IISc) Bangalore

Bangalore, India

COMPUTER VISION RESEARCH INTERN

Nov. 2016 - Feb. 2017

- Worked on deep learning based semantic segmentation model for UAV imagery.

Patents and Deployments

- **US Patent (US 16934858): "ATTRIBUTE CONDITIONED IMAGE GENERATION"**

Inventors : Niloy Mitra, Peter Wonka, Rameen Abdal, Piehao Zhu

Insights from this framework and the method Image2StyleGAN contributed to the [\[Neural filter\]](#) released by **Adobe™ Photoshop**.

Achievements

Finalist

KAUST

KAUST CHALLENGE - SHAPING THE FUTURE OF MEDIA

August 2021

- Our idea '**High-Quality Image Editing for Content Creation**' was selected as **top 15** among **650+** applications submitted from **37 countries** across the globe.

Winner

KAUST

KAUST RESEARCH EXCELLENCE AWARD

November 2021

- I received the CEMSE Research Excellence Award 2021 for high quality research output.

Position of Responsibility

Resident Assistant

KAUST

COMMUNITY LIFE

May 2020 - Present

- Organizing events, Open Hours and building the KAUST community.

Mentor

Riyadh

AI ARTATHON

March 2020

- Mentored 4 - 5 teams participating at Global AI Summit, Riyadh.

Teaching Assistant

KAUST

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

Fall 2019, 2020, 2021

- Teaching Assistant for the Deep learning course.

Reviewer

KAUST

TVCG / CVPR 21-22 / ICCV 21 / ECCV 22 / TPAMI / SIGGRAPH 21-22

2020, 2021, 2022

- Scientific review process.