Rameen **Abdal**

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RameenAbdal

Education

King Abdullah University of Science and Technology (KAUST) *Thuwal,Saudi Arabia*
MS/PHD COMPUTER SCIENCE (**GPA: 3.93/4.00**) *Sept. 2018 - Present*

National Institute of Technology (NIT) Srinagar *Srinagar,India*
B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING (**CGPA : 9.137/10 | OVERALL RANK: 2ND**) *Aug. 2014 - June 2018*

Publications

- **Rameen Abdal**, Hsin-Ying Lee, Peihao Zhu, Menglei Chai, Aliaksandr Siarohin, Peter Wonka, and Sergey Tulyakov
  "3DAvatarGAN: Bridging Domains for Personalized Editable Avatars" arXiv 2023 [Paper]

- **Rameen Abdal**, Peihao Zhu, Niloy Mitra, Peter Wonka
  "Video2StyleGAN: Disentangling Local and Global Variations in a Video" arXiv 2022 [Paper]

- Peihao Zhu, **Rameen Abdal**, John Femiani, Peter Wonka
  "HairNet: Hairstyle Transfer with Pose Changes"
  ECCV 2022 [Video]

- **Rameen Abdal**, Peihao Zhu, John Femiani, Niloy Mitra, Peter Wonka
  "CLIP2StyleGAN: Unsupervised Extraction of StyleGAN Edit Directions"
  ACM 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"
  ACM 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) (ACM 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]

Relevant Experience

Snap Inc. *Los Angeles, USA*
Research Intern *June 2022 - Oct. 2022*
- Worked on 3D animations using 3D GANs.

Adobe Research *London, UK*
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 (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 : Niloy Mitra, Peter Wonka, Rameen Abdal, Piehao Zhu

Talks

Stanford Computational Imaging Lab *Stanford, USA (Remote)*
Extracting Semantics, Geometry, and Appearance using GANs *Dec. 2022*

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*

Achievements

Winner *KAUST*
KAUST Research Excellence Award *Nov. 2021*
- I received the CEMSE Research Excellence Award 2021 for high quality research output.

Winner *KAUST*
KAUST CEMSE Dean's List Award *June 2022*
- I received CEMSE Dean's List Award for academic year 21/22.

Position of Responsibility

Resident Assistant *KAUST*
Community Life *May 2020 - Present*

Mentor *Riyadh*
AI Artathon *March 2020*

Teaching Assistant *KAUST*
Deep Learning for Visual Computing (CS 390DD/ CS 323) *Fall 2019, 2020, 2021*

Reviewer *KAUST*
TOG | TVCG | AAAI 2022 | CVPR 21-23 | ICCV 21 | ECCV 22 | TPAMI | SIGGRAPH / SIGGRAPH ASIA 21-22 *2020,2021,2022*