Rameen **Abdal**

Palo Alto, Stanford University, USA

(+1)6502137736 | rabdal@stanford.edu | rameenabdal.github.io | RameenAbdal | rameen-abdal

RameenAbdal

Education and Training

Stanford University *Palo Alto, USA*
POSTDOCTORAL FELLOW AT STANFORD COMPUTATIONAL IMAGING LAB *June. 2023 - Present*

King Abdullah University of Science and Technology (KAUST) *Thuwal, Saudi Arabia*
MS/PHD COMPUTER SCIENCE (**GPA: 3.93/4.00**) *MS: Sept. 2018 - June. 2020;   Ph.D.: June. 2020 - Feb. 2023*

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*

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 : Rameen Abdal, Peter Wonka, Niloy Mitra, 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, Saudi Arabia*
KAUST RESEARCH EXCELLENCE AWARD *Nov. 2021*
- I received the CEMSE Research Excellence Award 2021 for high quality research output.

Winner *KAUST, Saudi Arabia*
KAUST CEMSE DEAN'S LIST AWARD *June 2022*
- I received CEMSE Dean's List Award for academic year 21/22.

Publications

- **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]

- **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 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]

Position of Responsibility

Resident Assistant
KAUST, Saudi Arabia

Community Life
2020 - 2022

Teaching Assistant
KAUST, Saudi Arabia

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

Reviewer
KAUST, Saudi Arabia

TOG | TVCG | TPAMI | AAAI 22 | Neurips 23 | CVPR 21-23 | ICCV 21/23 | ECCV 22 | SIGGRAPH 21 - 23 | SIGGRAPH
ASIA 21-23
2020, 2021, 2022, 2023