Rameen **Abdal**

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RameenAbdal

Education

King Abdullah University of Science and Technology (KAUST) *Thuwal,Saudi Arabia*

PhD Computer Science (**GPA: 4.00/4.00**) *May 2020 - Present*

King Abdullah University of Science and Technology (KAUST) *Thuwal,Saudi Arabia*

MS Computer Science (**GPA: 3.92/4.00**) *Sept. 2018 - May 2020*

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**, 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

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.