

## PAPER LIST

### March 9: Autoregressive Models

[ATISS: Autoregressive Transformers for Indoor Scene Synthesis](#)

Despoina Paschalidou, Amlan Kar, Maria Shugrina, Karsten Kreis, Andreas Geiger, Sanja Fidler. NeurIPS 2021.

### March 16: Normalizing Flow Models

[Conditional Invertible Neural Networks for Diverse Image-to-Image Translation](#)

Lynton Ardizzone, Jakob Kruse, Carsten Lth, Niels Bracher, Carsten Rother, Ullrich Kthe. arXiv Preprint arXiv:2105.02104, 2021.

### March 23: Variational Autoencoders

[Playable Video Generation](#)

Willi Menapace, Stephane Lathuiliere, Sergey Tulyakov, Aliaksandr Siarohin, Elisa Ricci. CVPR 2021.

### March 30: Generative Adversarial Networks I

[Taming Visually Guided Sound Generation](#)

Vladimir Iashin and Esa Rahtu. BMVC 2021.

### April 6: Generative Adversarial Networks II

[Semantic Segmentation with Generative Models: Semi-Supervised Learning and Strong Out-of-Domain Generalization](#)

Daiqing Li, Junlin Yang, Karsten Kreis, Antonio Torralba, Sanja Fidler. CVPR 2021.

*April 13: No Classes - Spring Break*

### April 20: Score-Based and Denoising Diffusion Models

[Diffusion Models Beat GANs on Image Synthesis](#)

Prafulla Dhariwal, Alexander Quinn Nichol. NeurIPS 2021.

*April 27: Project Discussions*

*May 2: No Classes - Ramadan Holiday*

*May 11: Project Progress Presentations*

### May 18: Self-Supervised Learning

[Generative Models as a Data Source for Multiview Representation Learning](#)

Ali Jahanian, Xavier Puig, Yonglong Tian, Phillip Isola. arXiv Preprint arXiv:2106.05258, 2021.

### May 25: Multimodal Pre-training

[Multimodal Few-Shot Learning with Frozen Language Models](#)

Maria Tsimpoukelli, Jacob Menick, Serkan Cabi, S. M. Ali Eslami, Oriol Vinyals, Felix Hill. NeurIPS 2021.