Semester Project / BSc MSc Thesis

Supervisor: Hsuan-I (Sean) Ho
How to apply: SiROP or E-mail: hohs@ethz.ch

Please make sure you attach your CV, transcript of records, and a short introduction to the application. Only students of ETH/UZH or mobility/exchange students at ETH will be considered!

Available topics:

Editable 3D Avatar https://custom-humans.github.io/
- Automatic and fine-grained avatar generation pipeline.
- Scale-up generative models.

- Reconstruct fully textured 3D meshes from one image.
- Reconstruct layered garment meshes from multiple images.

- Generate multi-view consistent humans/clothing from partial observations
- Design ControlNet models using 2D semantic labels of clothing.
- Data augmentation using diffusion models.

For more project information please reach me out by emails. You are also welcomed to propose your own project.

Preferred Skillsets:
- Understanding of 3D Computer Vision (Have taken Machine Perception, Computer Vision or other related courses).
- Experience with deep learning model and development in PyTorch.
- Good GPA and academic performance.
- Self-motivation and ability to work independently.