

# Stable Diffusion LoRA Based Virtual Try-On

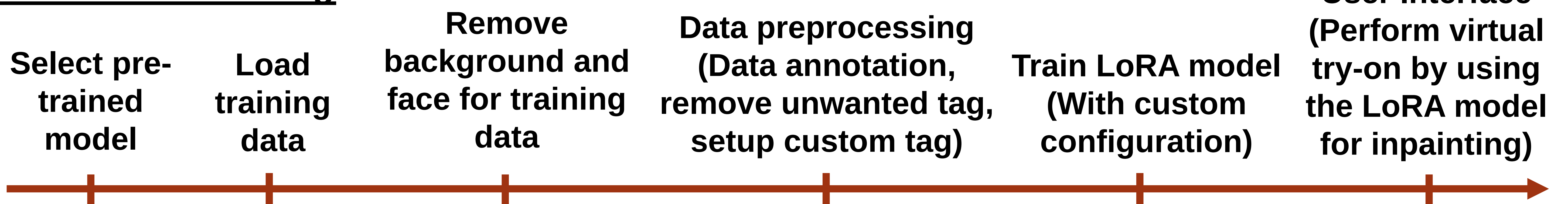
Li Tsz Chun, INFE  
Supervisor: Prof. Lai-Man PO

## Objective

- Develop a stable diffusion-based cloth transfer method for virtual try-on
- Evaluate the performance of the proposed method on a variety of datasets and settings
- Develop a user-friendly interface that allows users to easily upload their images and try on different clothes virtually

## Methodology

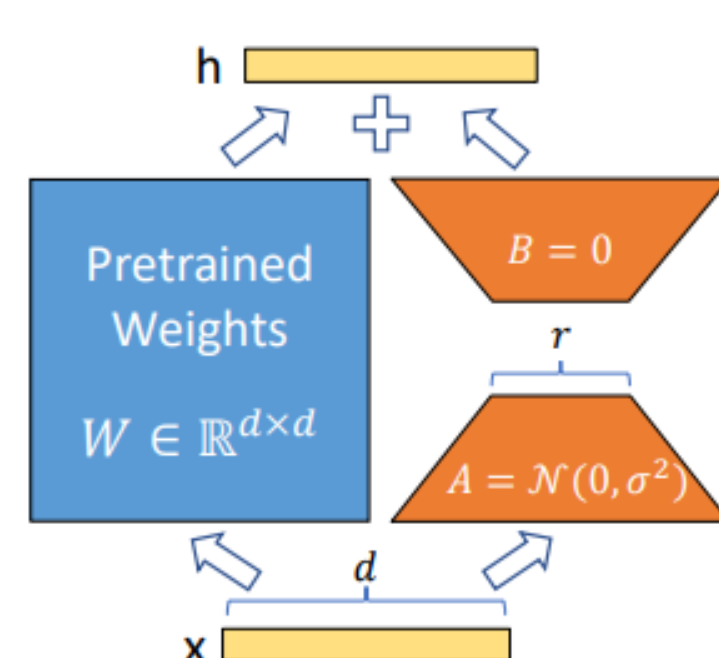
### LoRA Model Training



### Model Used

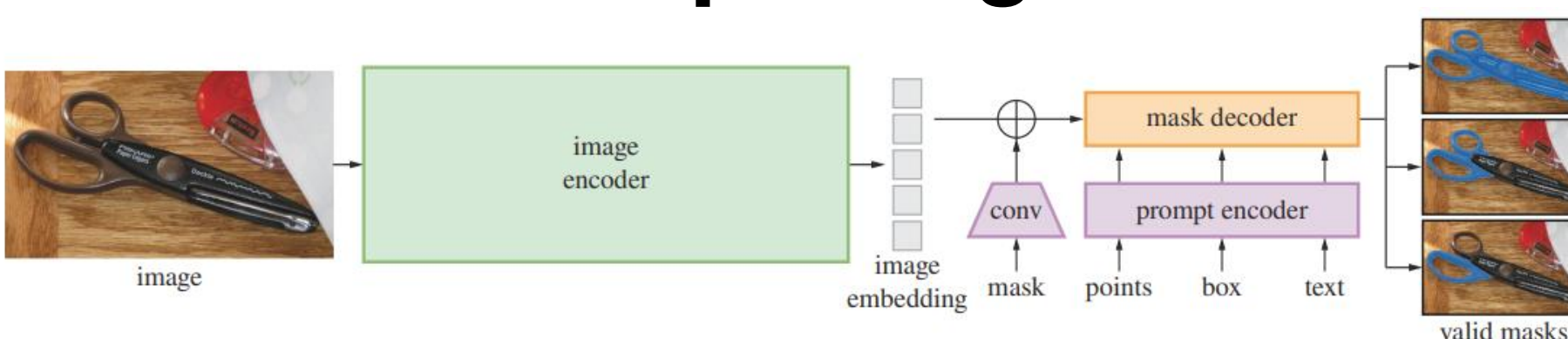
#### LoRA Model:

- Text subject representation



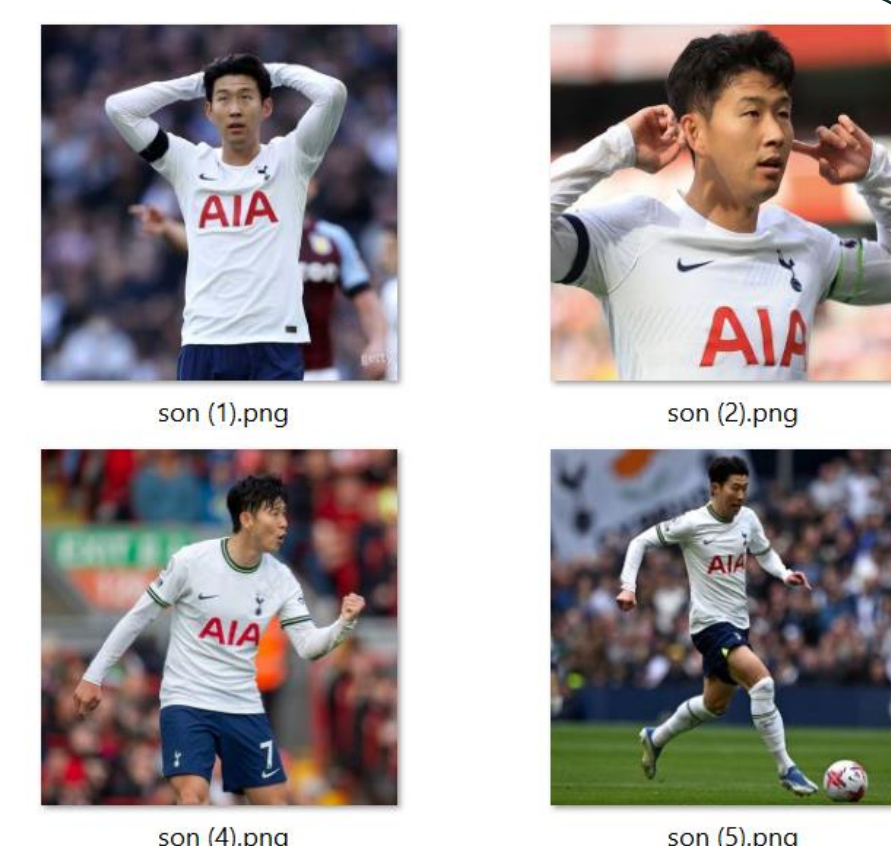
#### Segment Anything Model:

- Segmentation
- Control output region



### Training Data:

- Images contain the cloth to be trained

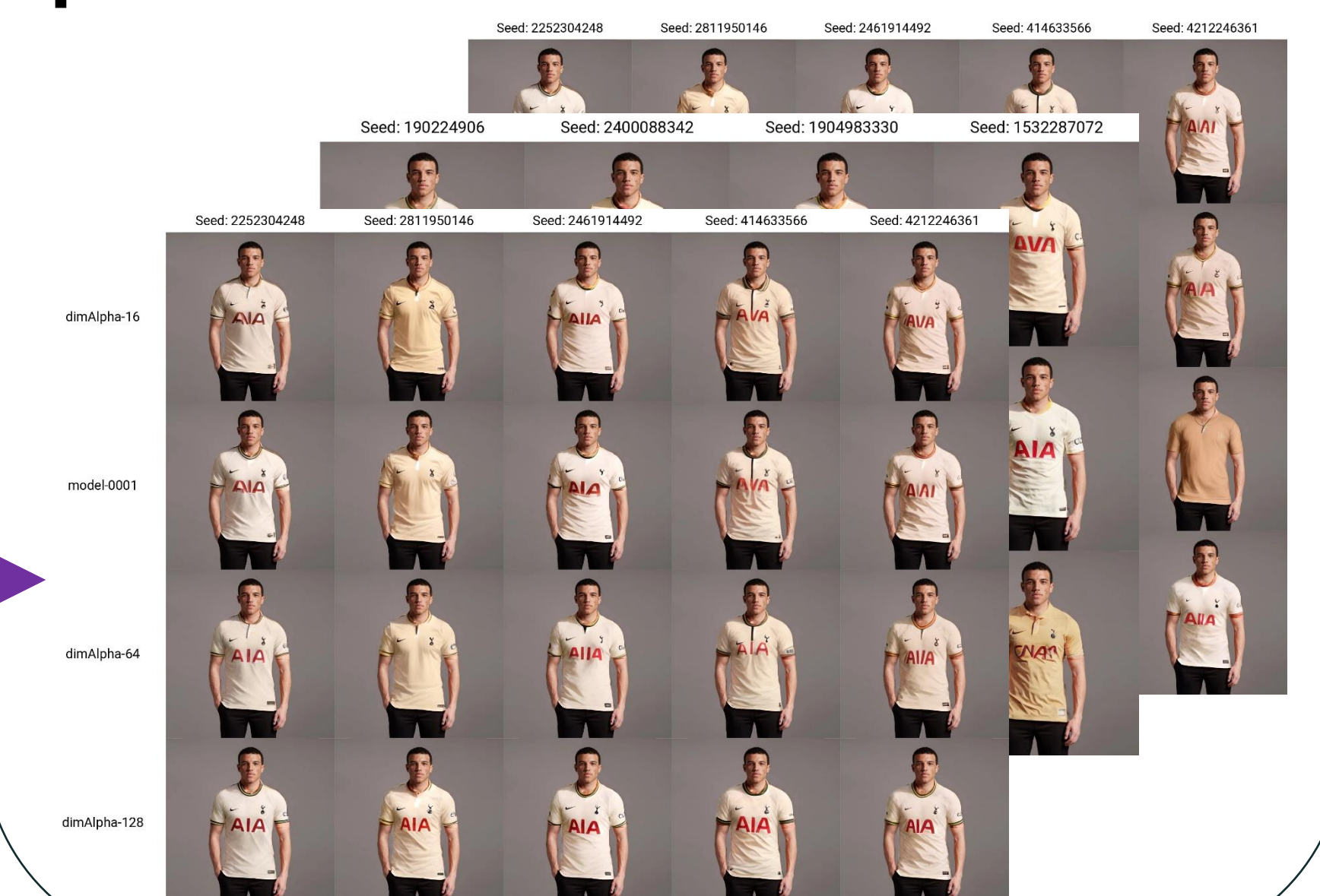


### Data Preprocessing:

s0n\_j3rs3y, 1boy,  
transparent background,  
solo, male focus...



### Test output model with different parameters combination



## Results & Application

| Parameter (for Training LoRA Model) | Best Setting                                   |
|-------------------------------------|------------------------------------------------|
| Pre-trained Model (Inpaint Model)   | AnyLoRA (EpicRealism)                          |
| No. of Repeats                      | 40                                             |
| Network Dimension                   | 128                                            |
| Network Alpha                       | 128                                            |
| Optimizer                           | Lion                                           |
| Learning Scheduler                  | Constant                                       |
| Gradient Accumulation Steps         | 1                                              |
| Best Epoch                          | 10 (for 20~30 images)<br>11 (for 10~20 images) |
| Others                              | Default                                        |

| Parameter (for Generation) | Best Setting |
|----------------------------|--------------|
| LoRA Scale                 | 1            |
| Denoising Strength         | 0.75         |
| Others                     | Default      |

