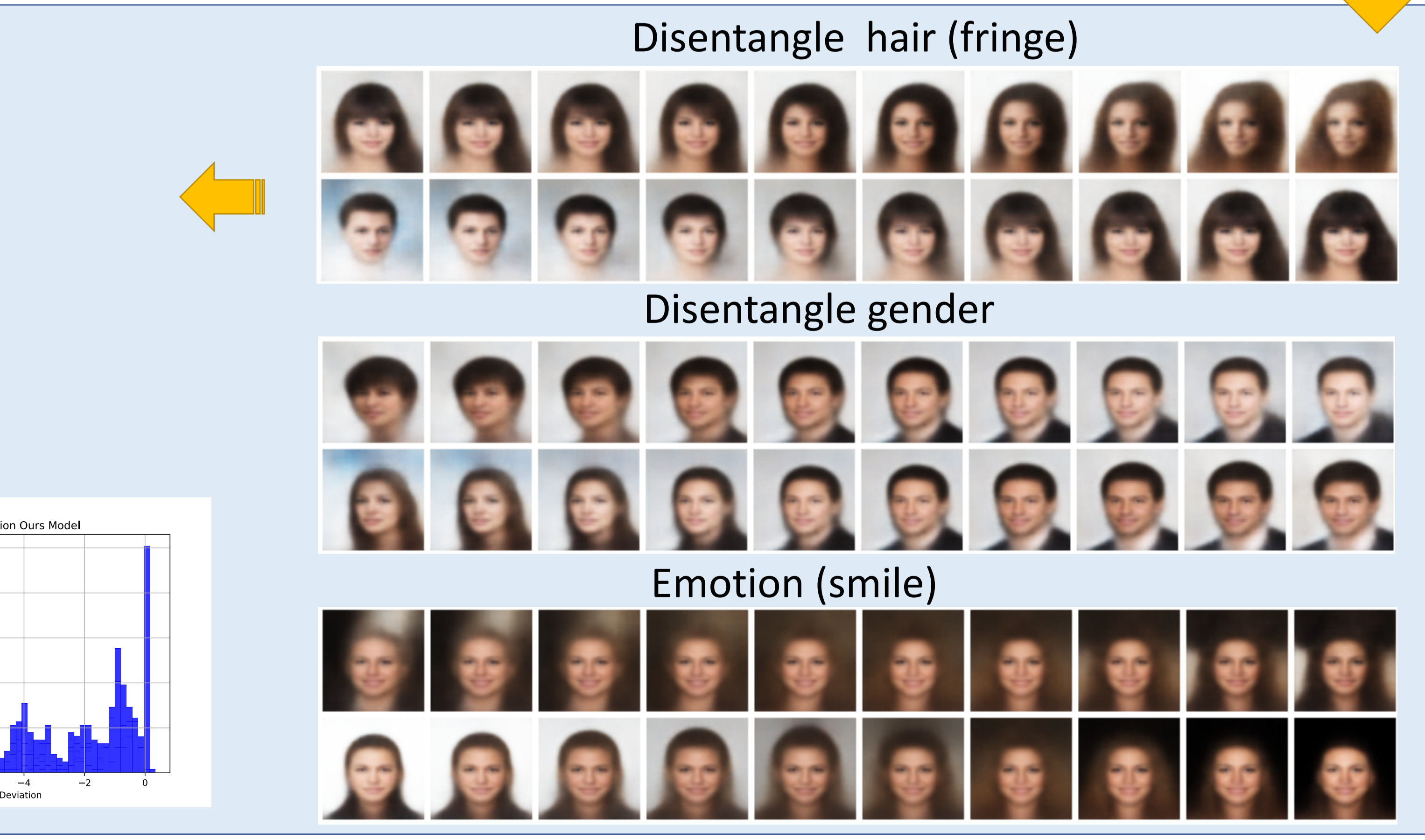
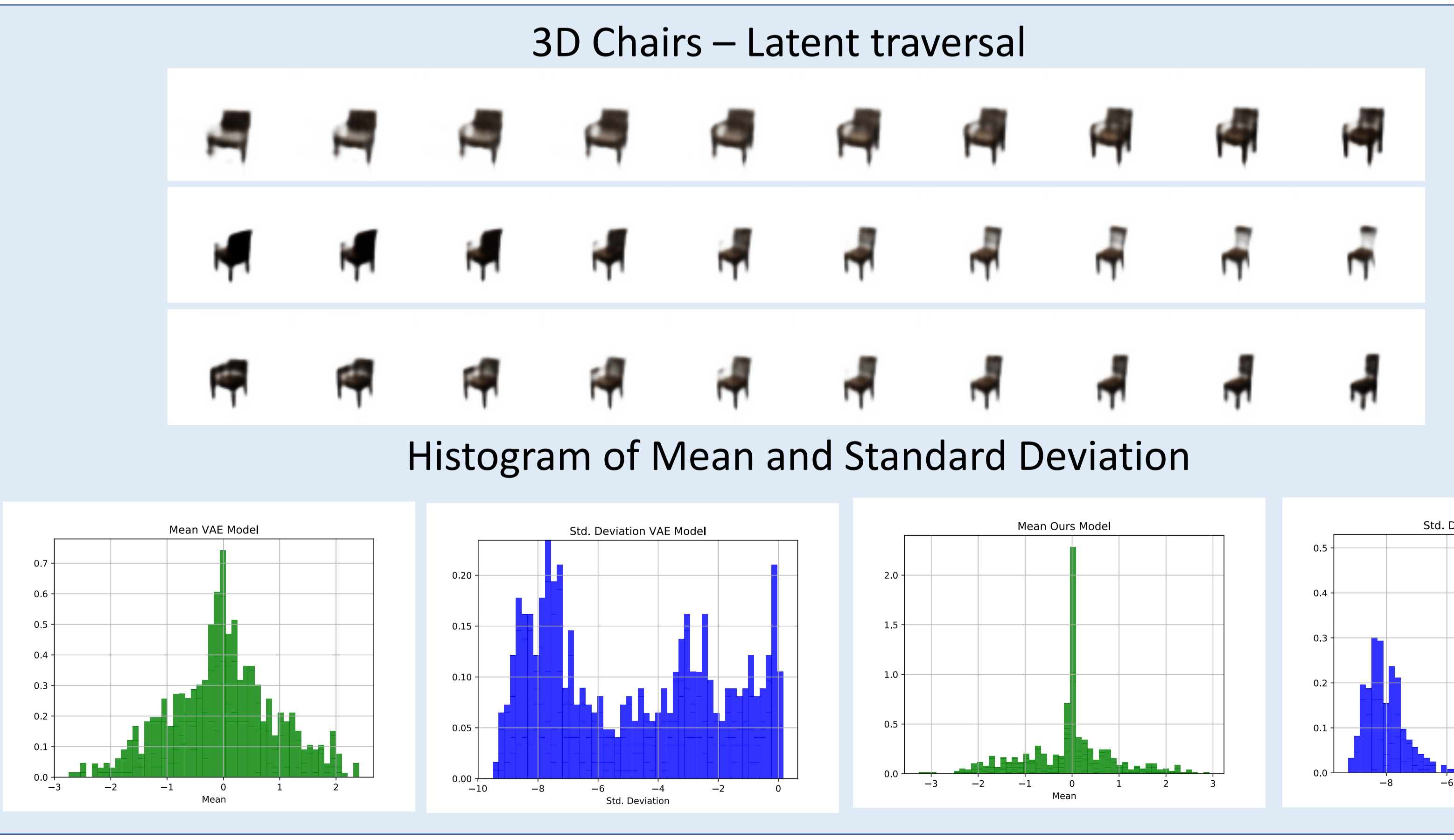
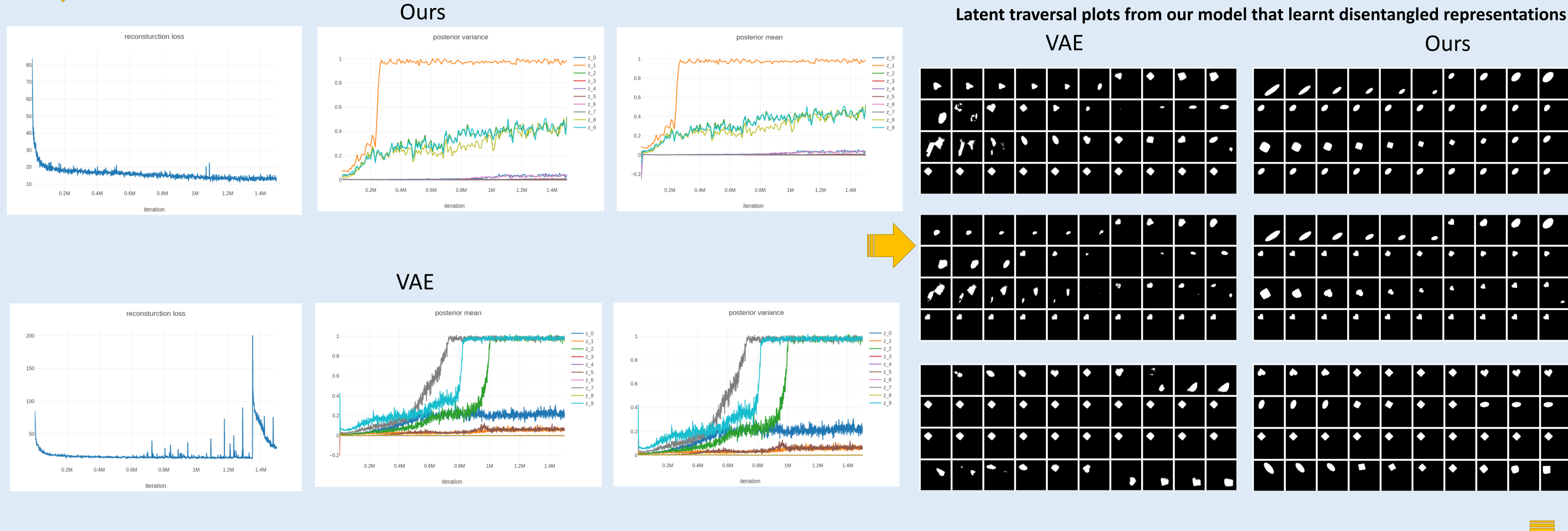
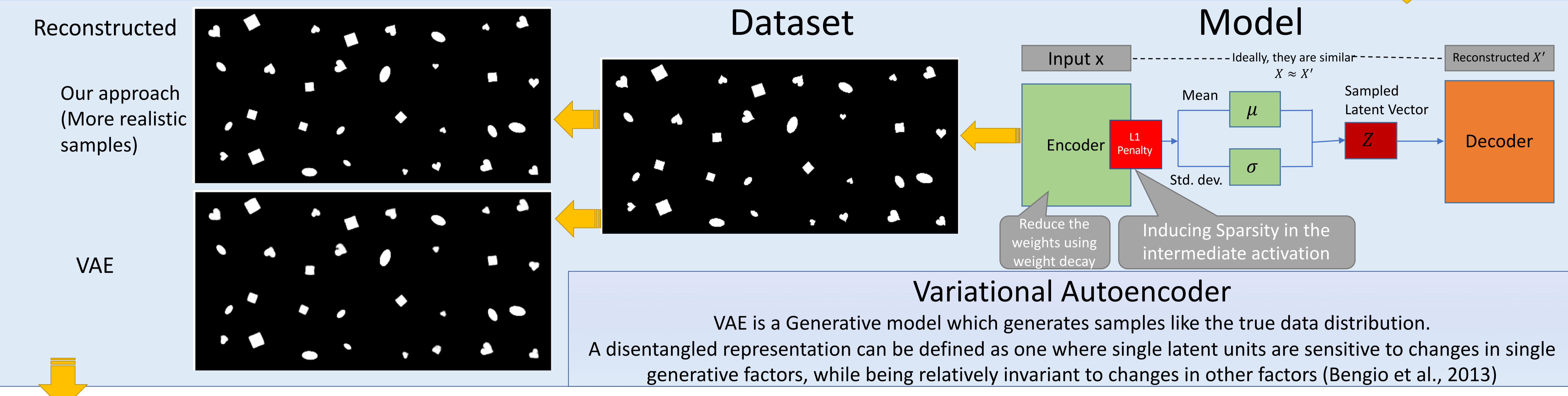
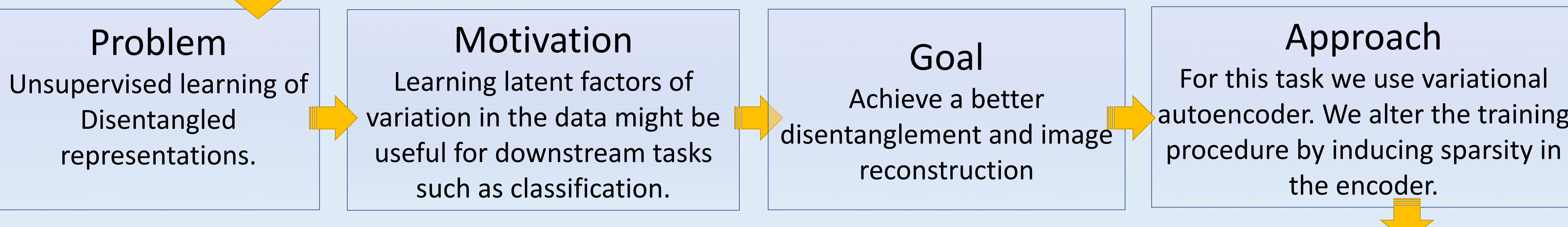


Abstract

The aim is to generate better latent disentanglement and good image reconstruction using Variational Autoencoder. We introduce sparsity at the prior distribution. Our model could disentangle latent unit such as position (X, Y), rotation, scale and identity from 2dSprite dataset. We also demonstrate the results with celebrity and 3d chairs dataset.



Discussion

We show that for this specific data (2dSprites), the model can disentangle latent factor such as position(X, Y), rotation, shape, identity. Our reconstruction is more realistic than VAE. In future, we will evaluate quantitatively the degree of disentanglement using methods proposed by Higgins et al. and Kim et al.