

# Learning To Identify Diseases From Healthy Medical Images

## Introduction

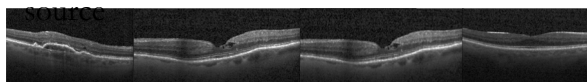
Challenge: to identify diseases like humans by examining normal images to find anomalies

Solution: Deep generative machine learning models VAE and GAN

## OCT

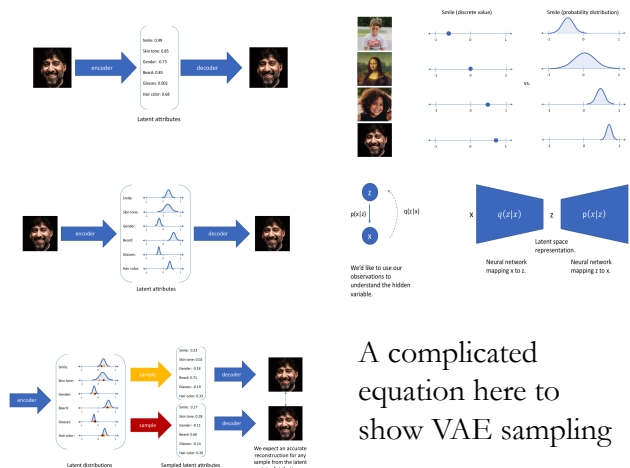
From OCT images identify those with diseases. Instead of transfer learning we are interested in identifying anomalies.

Describe previous work done and data



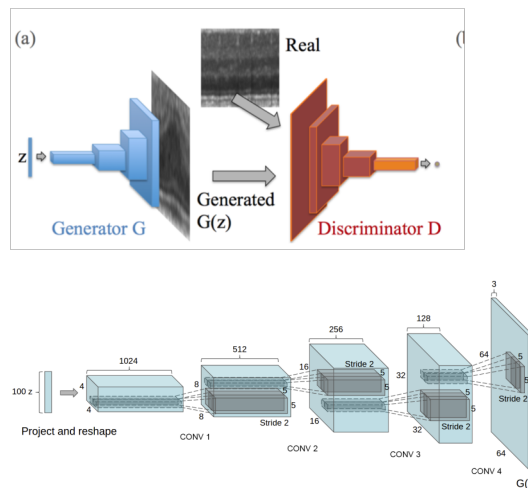
## References

## Variational Autoencoders (VAE)

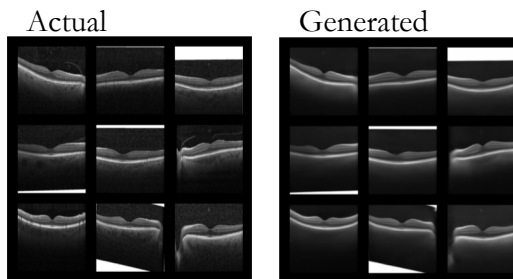


A complicated equation here to show VAE sampling

## Generative Adversarial Networks (GANs)



## Anomaly Detection



A complicated equation here to show anomaly identification



Encoder

Smile: 0.52

Skin tone: 0.4

Gender: -0.82

Beard: 0.002

Glasses: 0.85

Hair colour: 0.35

Decoder



Latent attributes

