

MAP Optimization with NFs

$$\mathbf{x} = G_{\theta}(\mathbf{z})$$

What would the generative model be? $\|A\mathbf{x} - \mathbf{d}\|_2 = \|AG_{\theta}(\mathbf{z}) - \mathbf{d}\|_2$

GAN will be more susceptible to poor performance for out-of-training-distribution samples.

A normalizing flow which can theoretically fit anything so nothing out of its range.

Training Data



Truth

DCGAN

Ours



Reparameterized optimization with NF for photoacoustic imaging