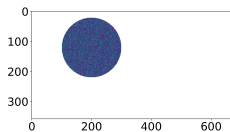
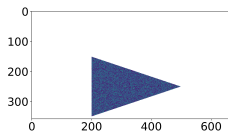


Set I of pixels with 3 shapes
 $\mathcal{F} = \{\text{circle, triangle, square}\}$

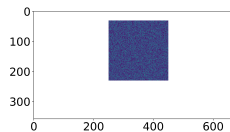
Spatial
domain
description



$\{\alpha_{\text{circle},i}\}_{i \in I}$



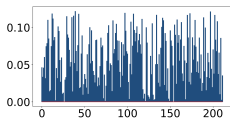
$\{\alpha_{\text{triangle},i}\}_{i \in I}$



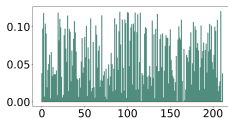
$\{\alpha_{\text{square},i}\}_{i \in I}$



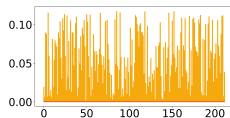
Spectral
domain
description



$\mathbf{s}_{\text{circle}}$



$\mathbf{s}_{\text{triangle}}$



$\mathbf{s}_{\text{square}}$



$\varepsilon_i \sim \mathcal{N}(0, \sigma^2 I)$

$$x^{(i)} = \frac{1}{C_i} \sum_{f \in \mathcal{F}} \alpha_{f,i} \mathbf{s}_f + \varepsilon_i$$