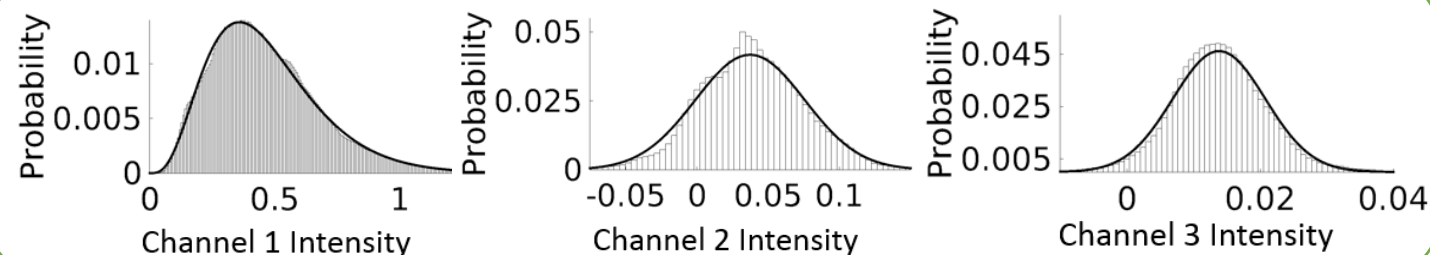


**Corrupted image
with surgical smoke,
specular highlights,
and noise
(2 examples)**



**Restored image
(2 examples)**

**Prior for natural color preservation:
Color distribution models in decorrelated color space**



**Unified Bayesian graphical generative model.
Variational Bayes Expectation Maximization**
(Latent variables: Smoke-transmission map,
dictionary coefficients)

**Prior for texture preservation:
Sparse patch-based dictionary**

