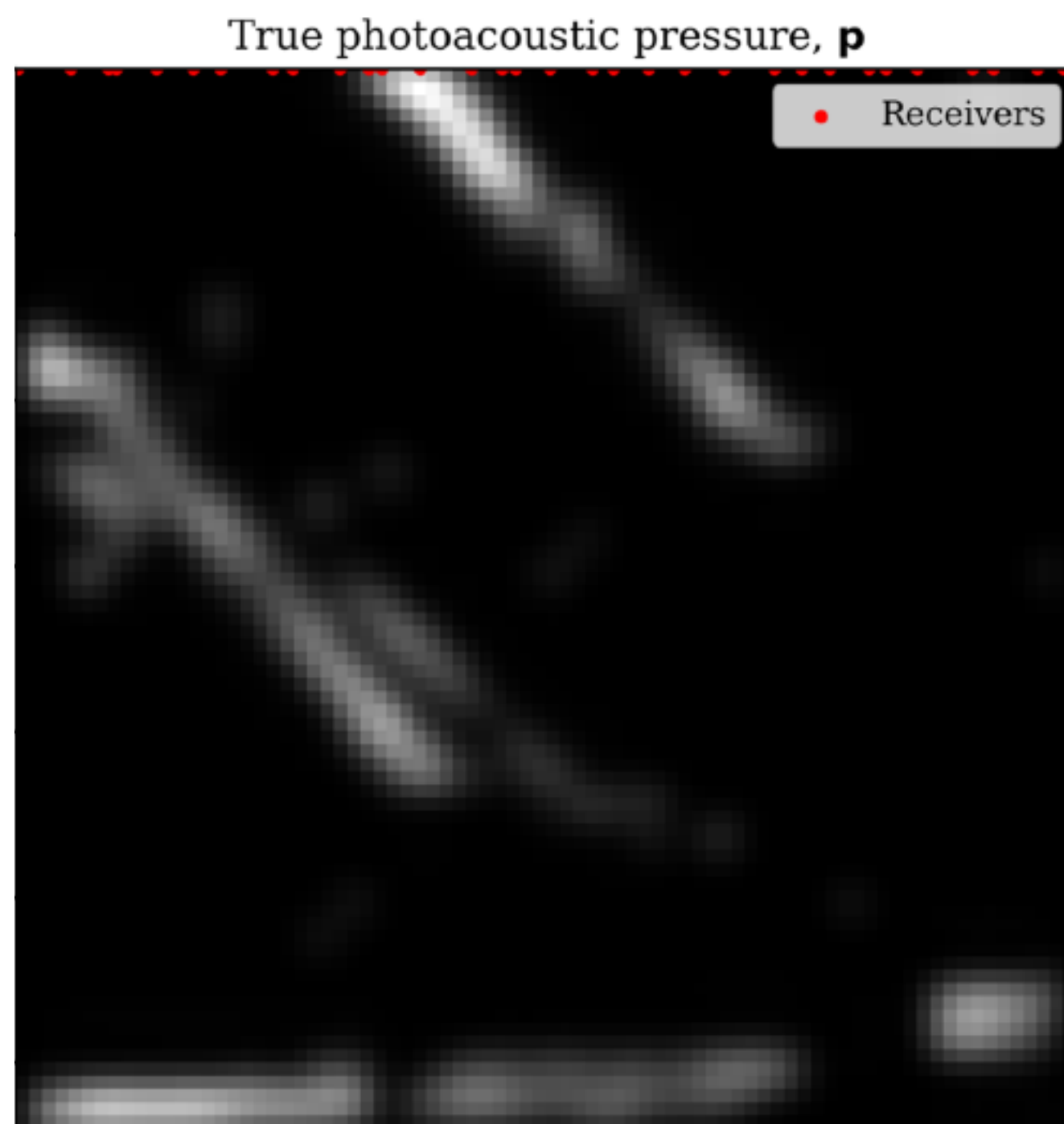


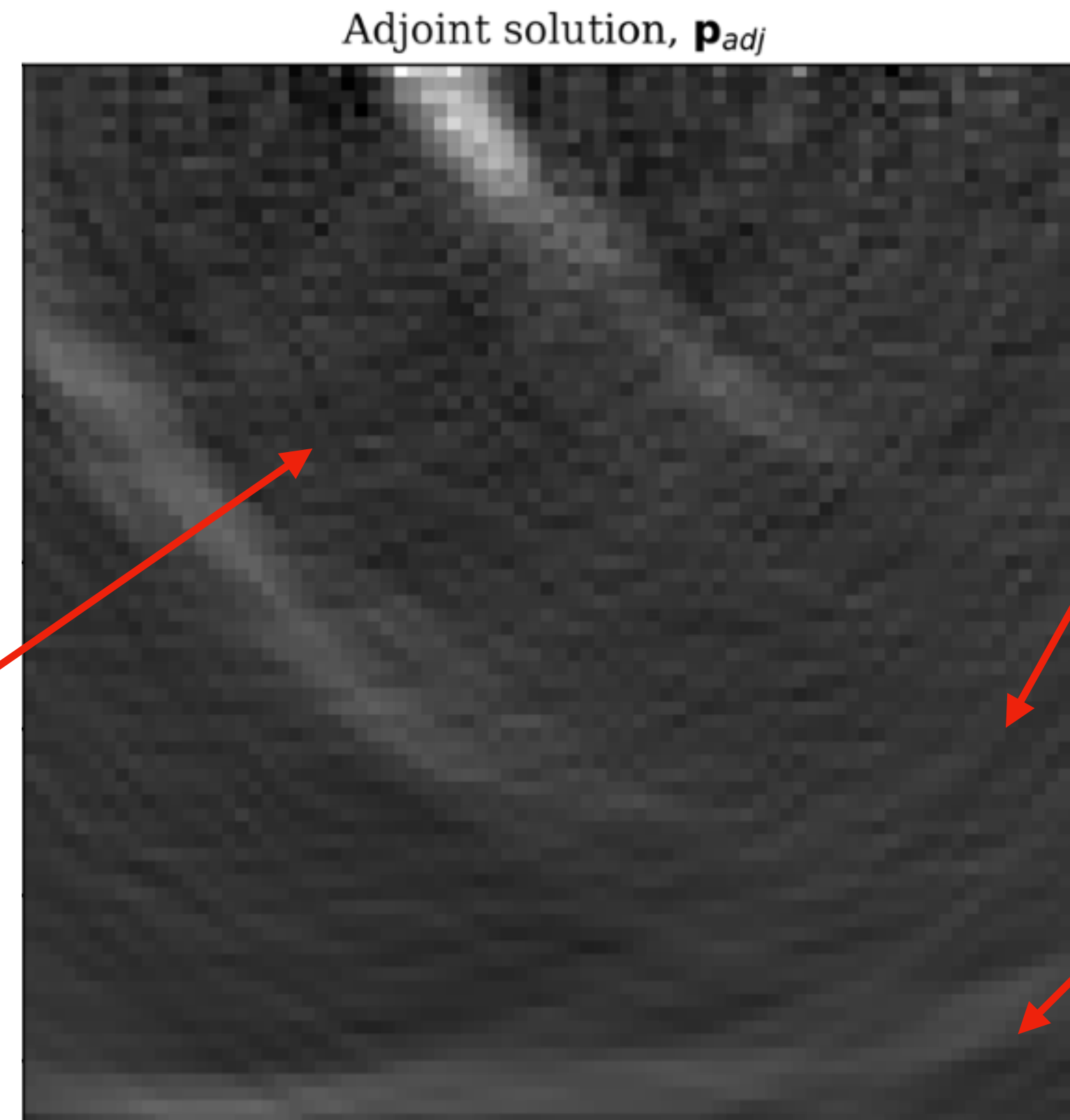
Traditional Approaches - Challenges

Large uncertainty in traditional reconstructions due to

- ▶ limited view geometry \rightarrow null space
- ▶ noisy measurements
- ▶ sparse receivers



Noise introduces
amplitudes



Limited view streaks

Deeper vessels hard to
image

Proposed Approach – Variational Inference

Pose inverse problem in Bayesian formulation where the (conditional) posterior distribution encodes all sources of uncertainty

$$p(\mathbf{x} | \mathbf{y})$$