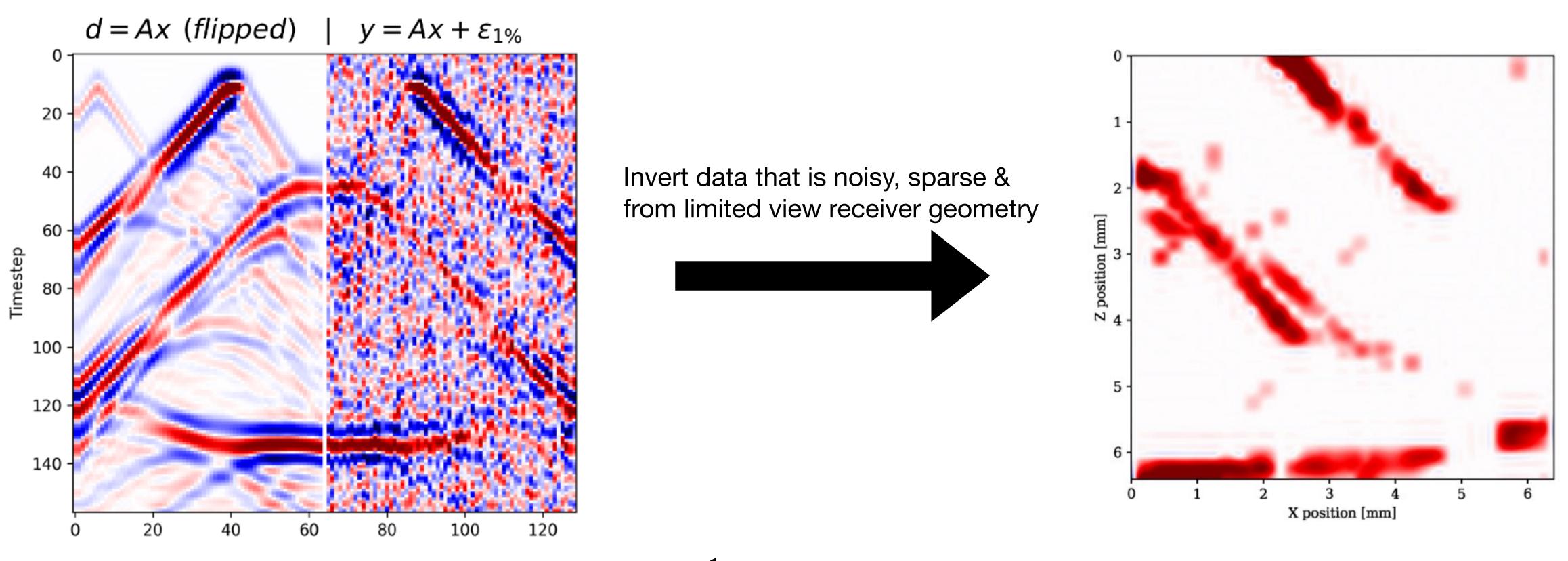
Inverse Problem



Given acoustic data at receivers calculate acoustic pressure at T=0



$$\underset{\mathbf{x}}{\operatorname{argmin}} \frac{1}{2} ||A\mathbf{x} - \mathbf{d}||_{2}^{2} + \log R(\mathbf{x})$$

MAP Optimization with NFs



Results with photoacoustic medical imaging reconstruction. Operator A is a forward wave solve representing ultrasound wave propagation

$$\underset{\mathbf{x}}{\operatorname{argmin}} \frac{1}{2} ||A\mathbf{x} - \mathbf{d}||_{2}^{2} + \log R(\mathbf{x})$$

argmin
$$\frac{1}{2} ||AG_{\theta}(\mathbf{z}) - \mathbf{d}||_{2}^{2} + \frac{1}{2} ||\mathbf{z}||_{2}^{2}$$

