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What can you do with these methods?

Build models to fit data using nonstationary statistics.

Estimate and remove a source wavelet (blind decon deblur)

Bring randomly positioned data to a uniform Cartesian grid.

Fill data gaps. Interpolate beyond aliasing (sometimes).

Transform residuals to IID (Independent, Identically Distributed).

Swap easily among L1, L2, hyperbolic, and inequality penalties.

Stretch a signal unevenly to match another. Images too.

Predict price based on diverse aspects.

Model robustly (multivariate median versus the mean).
Remove crosstalk in multichannel signals (vector data).
Shave models with Occam's razor outdoing the L1 norm.
Join the world of BIG DATA by grasping many aspects of back projection.

Data Fitting with Nonstationary Statistics

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