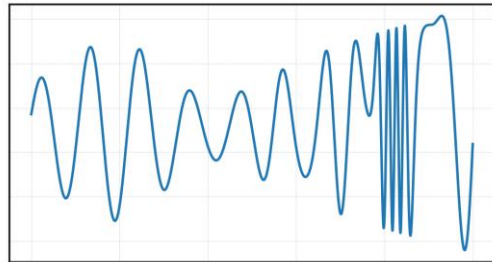# Super-Resolution: An Exploratory Analysis Based on Synthetic Data
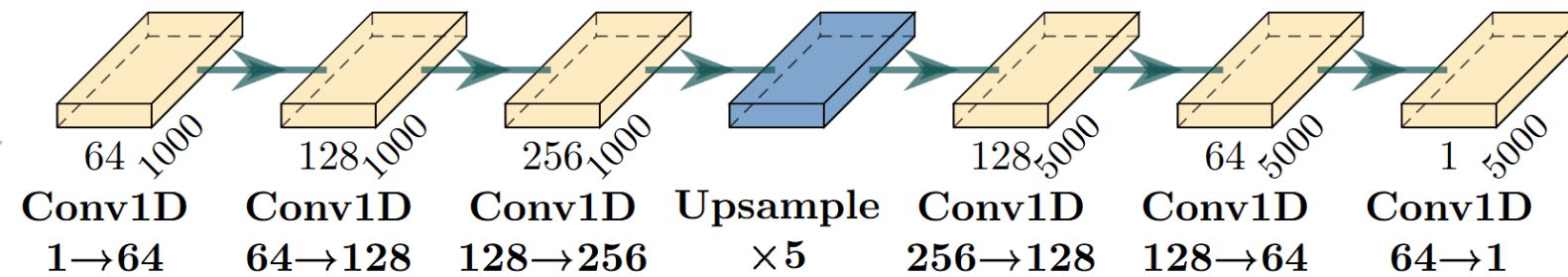

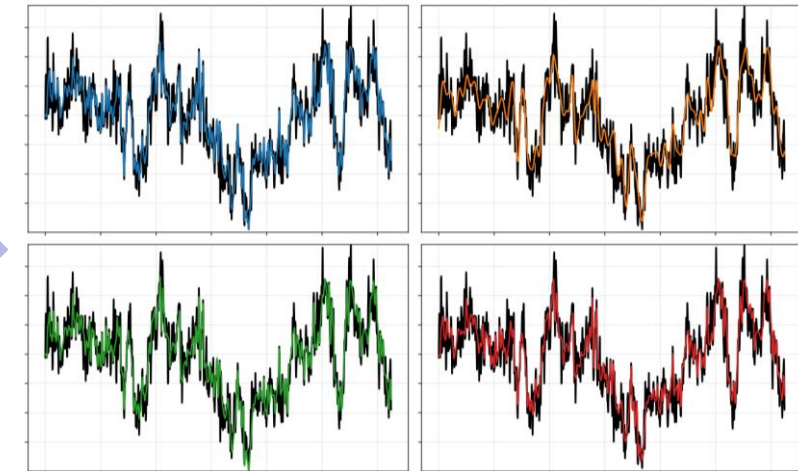**Synthetic**

Real

Sample and train

64 1000
Conv1D
1→64

128 1000
Conv1D
64→128

256 1000
Conv1D
128→256

Upsample
×5

128 5000
Conv1D
256→128

64 5000
Conv1D
128→64

1 5000
Conv1D
64→1
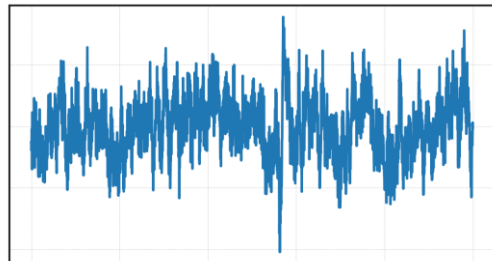
Reconstruct

Train SR model on real and synthetic data with different strategies   **Improved signal reconstruction**