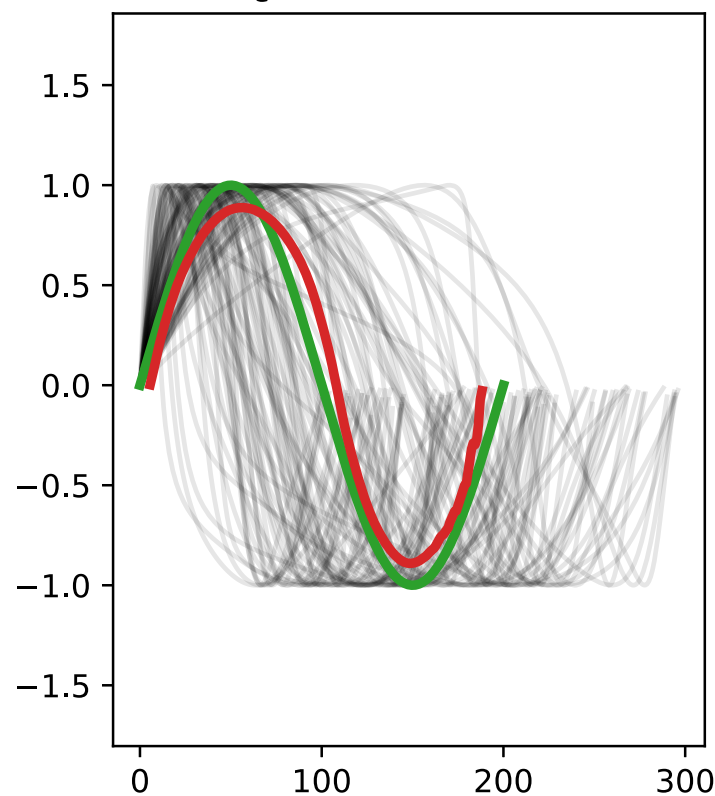
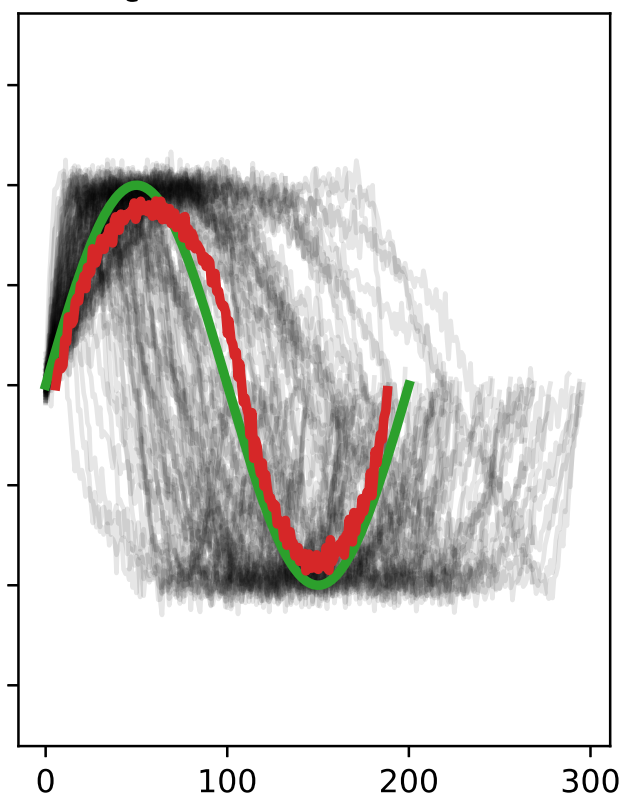


# (a) TS-LDDMM barycenter

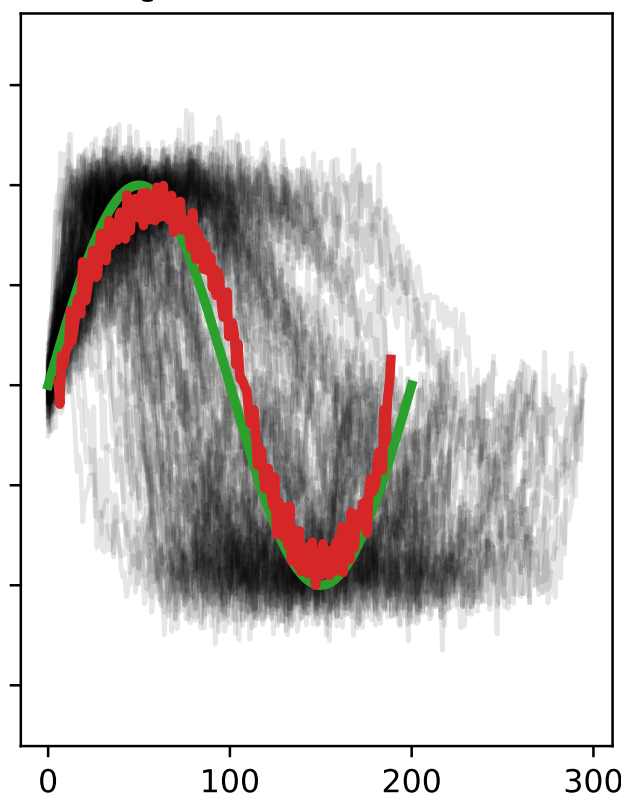
$\sigma_\varepsilon: 0$ , error: 2.22



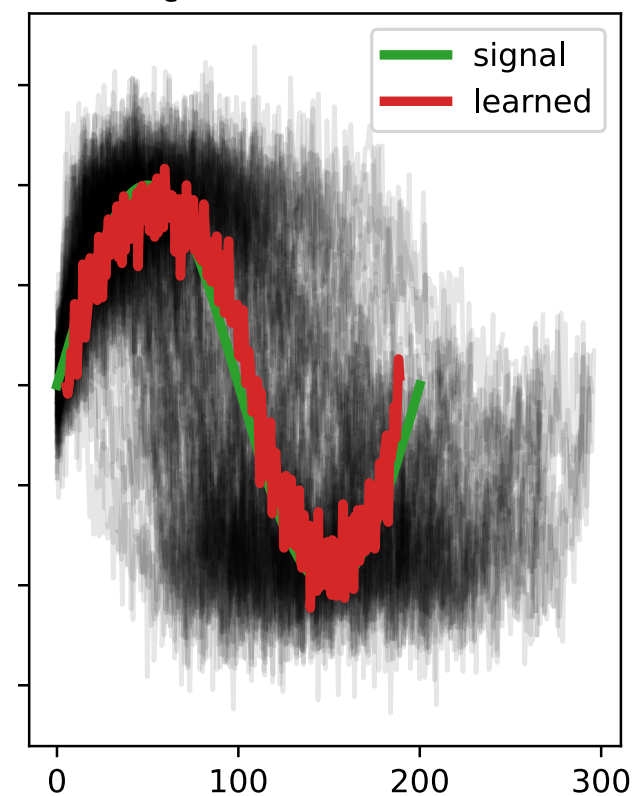
$\sigma_\varepsilon: 0.05$ , error: 2.28



$\sigma_\varepsilon: 0.1$ , error: 2.42

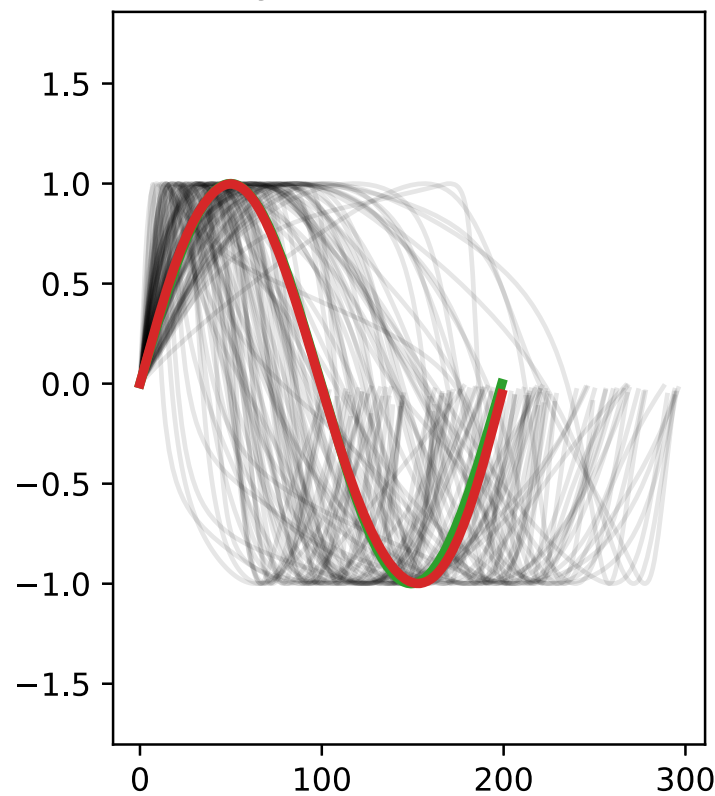


$\sigma_\varepsilon: 0.2$ , error: 2.6

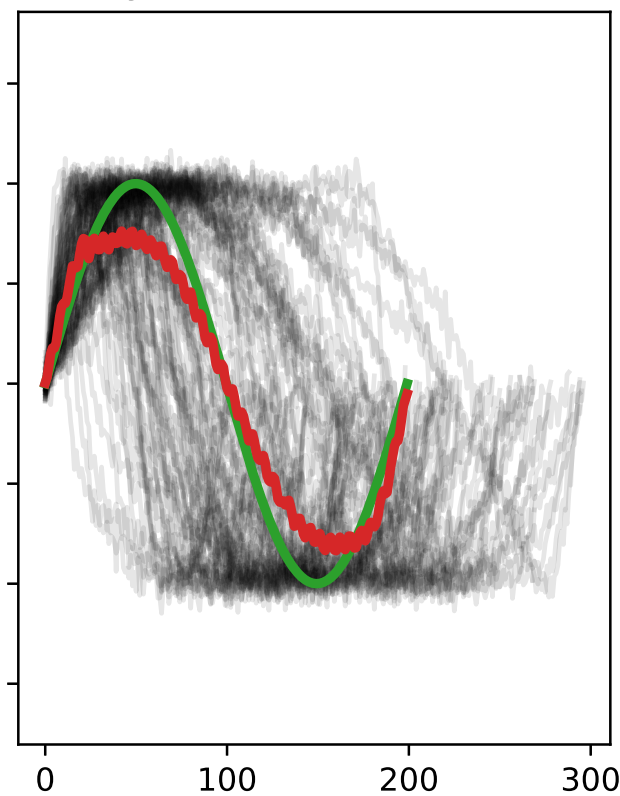


# (b) Shape-FPCA barycenter

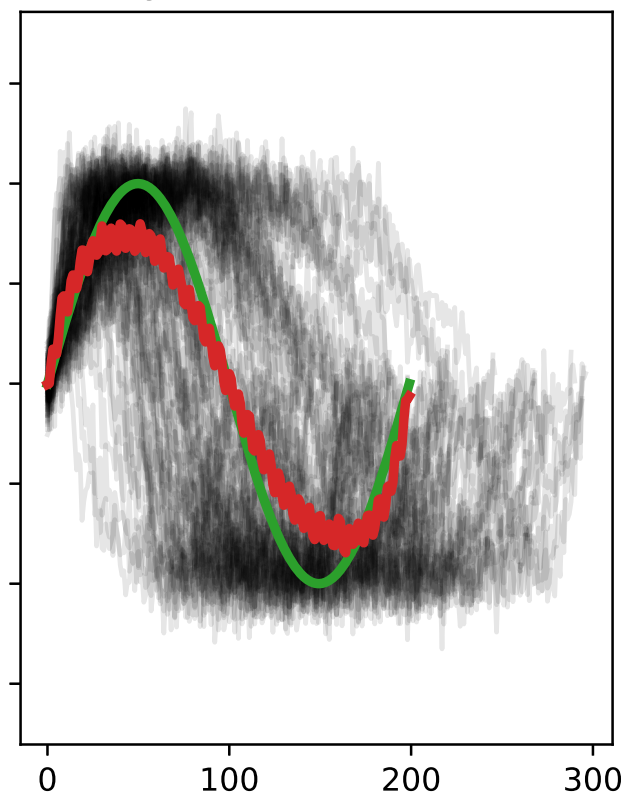
$\sigma_\varepsilon: 0$ , error: 0.51



$\sigma_\varepsilon: 0.05$ , error: 2.47



$\sigma_\varepsilon: 0.1$ , error: 2.76



$\sigma_\varepsilon: 0.2$ , error: 2.95

