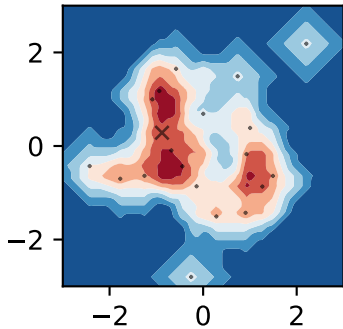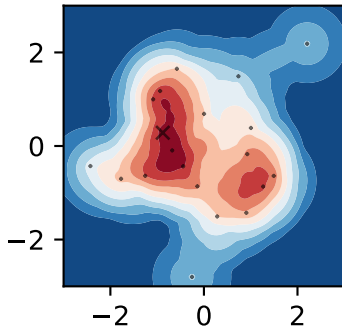$N = 20$ data points
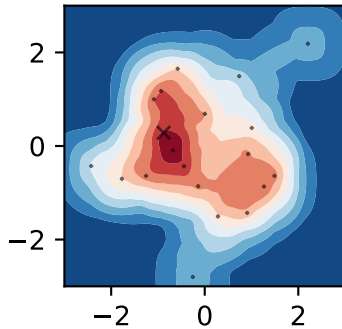
Norm $p = 1$ Norm $p = 2$ Norm $p = 3$ Norm $p = inf$