



Figure 1: Comparison between a  $p$ -body Hopfield network in the teacher-student setting (top) and a dense neural network trained by Krotov (bottom). The top row shows how the network reconstructs an incomplete pattern  $\xi^b$  from the teacher pattern  $\xi^*$  by utilizing the examples  $\sigma$ , while the bottom row illustrates a dense neural network recovering the labels  $y'$  of the data  $x$  using the weights  $w$  learned from  $x$ .