Input: Target f^* , initial f^0 , per-iteration pack size k, small constant $\epsilon > 0$ and maximal iteration number T.

Algorithm 1 Random / Greedy Functional Teaching

while $t \leq T$ and $||f^t - f^*||_{\mathcal{H}} \geq \epsilon$ do

Set $f^t \leftarrow f^0$, t = 0.

The teacher selects k teaching examples:

Initialize the pack of teaching examples $\mathcal{K} = \emptyset$; for j = 1 to k do

between f^t and f^* :

(**RFT**) 1. Pick $x_i^{t^*} \in \mathcal{X}$ randomly;

(GFT) 1. Pick x_i^{t*} with the maximal difference