

- presented two optimization problems:
  - $\min_{\mathbf{d} \in \mathcal{P}} \text{RE}(\mathbf{d} \parallel \mathbf{1})$
  - $\min_{\mathbf{d} \in \overline{\mathcal{Q}}} \text{RE}(\mathbf{0} \parallel \mathbf{d})$
- which is AdaBoost solving? Both!
- problems have **same** solution
- moreover: solution given by **unique** point in  $\mathcal{P} \cap \overline{\mathcal{Q}}$
- problems are **convex duals** of each other