Discriminative Learning • Modeling Step: Discriminative vs. Generative • Select classification rules H to consider Learning (hypothesis space) • Training Principle: CS4780/5780 – Machine Learning • Given training sample $(\vec{x}_1, y_1), \dots, (\vec{x}_n, y_n)$ Fall 2013 • Find *h* from *H* with lowest training error → Empirical Risk Minimization Thorsten Joachims • Argument: low training error leads to low Cornell University prediction error, if overfitting is controlled. Reading: Examples: SVM, decision trees, Perceptron Mitchell, Chapter 6.9 - 6.10 Duda, Hart & Stork, Pages 20-39











