## Summary of Lecture 15

Reading: [Arora-Barak (AB)] 7.5

- We basically covered two theorems in the lecture: (1) BPP $\subseteq$ P/poly and (2) BPP  $\subseteq \Sigma_2 \cap \Pi_2$ .
- A common technique we used here is to apply the union bound and show the existence of a "good" seed by a probabilistic argument.