

# Statistic vs. Parameter

Sample

Population

$$\bar{Y}$$



mean



$$\mathbb{E}[Y]$$

$$\hat{\sigma}$$



std. dev.



$$\sigma$$

$$\frac{n_1}{n_0+n_1}$$



proportion



$$p$$

$$n$$



size



$$N$$

$$r_{xy} = \frac{S_{xy}}{S_x S_y}$$



correlation



$$\rho$$

$$\hat{\tau}$$



ATE



$$\mathbb{E}[Y(1) - Y(0)]$$