

Randomized
Researcher *Intervention*
or Natural *Exposure*

$$|r|_{I/E \rightarrow D} = 1 \\ (\Rightarrow I/E = D)$$

Randomized
Controlled
Trial (RCT)

Bivariate
OLS

Average Causal
Effect of D

$$|r|_{I/E \rightarrow D} < 1 \\ (\Rightarrow I/E \neq D)$$

Intention to
Treat Design

Bivariate
OLS

Causal Intention
to Treat Effect (ITT)
of I/E

Instrument
Variable (IV)

Local Average
Treatment Effect of D
among Compliers (LATE)