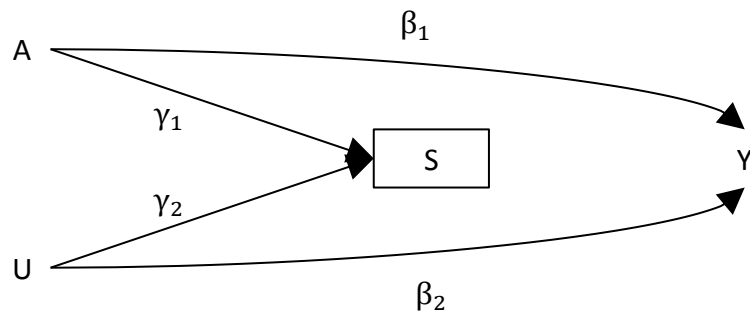


Causal diagram for data-generating process



Data-generating rules

- $A \sim \text{Bernoulli}(0.2)$
- $U \sim N(0,1)$
- $$P(S) = \frac{\exp(\gamma_0 + \gamma_1 A + \gamma_2 U + \gamma_3 U * A)}{1 + \exp(\gamma_0 + \gamma_1 A + \gamma_2 U + \gamma_3 U * A)}$$
 - $\gamma_0 = \ln(0.10/0.10)$
 - $\gamma_1 = \ln(5.0)$
 - $\gamma_2 = \ln(5.0)$
 - $\gamma_3 = \ln(1.0)$
- $$P(Y) = \frac{\exp(\beta_0 + \beta_1 A + \beta_2 U)}{1 + \exp(\beta_0 + \beta_1 A + \beta_2 U)}$$
 - $\beta_0 = \ln(0.05/0.05)$
 - $\beta_1 = \ln(1.0)$
 - $\beta_2 = \ln(5.0)$