

The fork

Simulating a shared cause

- Every DAG implies a causal relation between variables.
- We can use distributions to simulate the generative model implied by this DAG:

$$y \sim \text{Normal}(\alpha_y + \beta_{yx}x + \beta_{yz}z, \sigma_y)$$

$$x \sim \text{Normal}(\alpha_x + \beta_{xz}z, \sigma_x)$$

$$z \sim \text{Bernoulli}(p_z)$$

