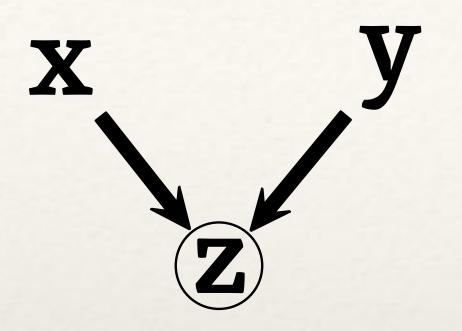
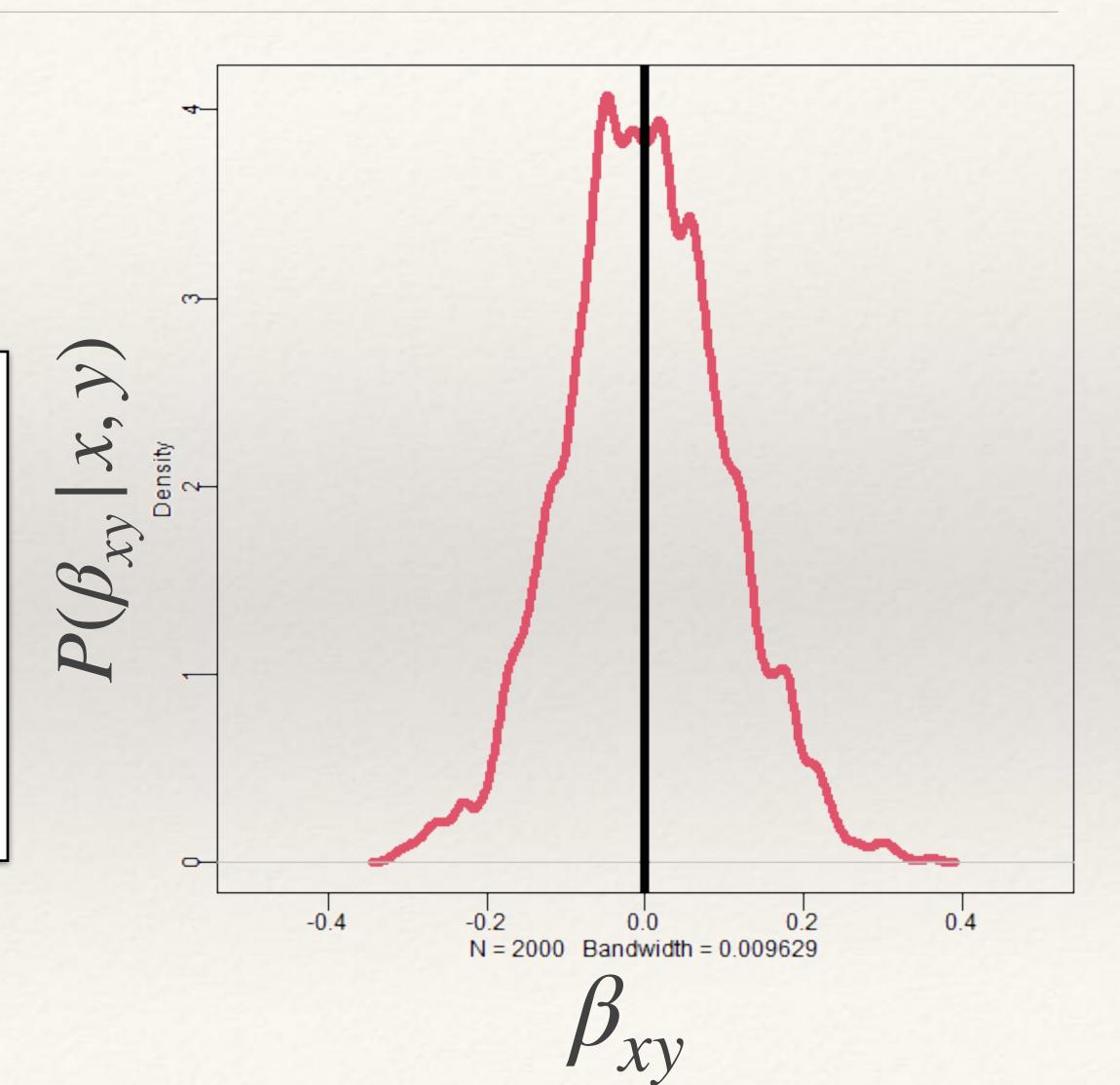
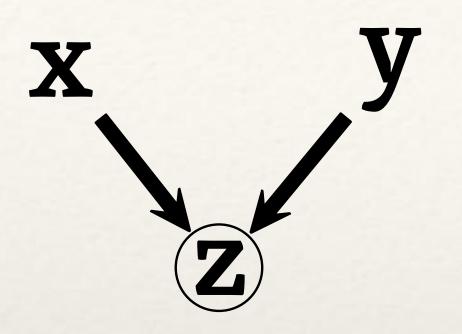
EFFECT OF X ON Y WITHOUT THE COLLIDER



```
m1 = ulam(alist(
y ~ normal(a + bx*x, sigma),
a ~ normal(0, 0.3),
bx ~ normal(0, 0.3),
sigma ~ exponential(1)),
data = list(y = y, x = x),
iter = 1000, chains = 4, cores = 4)
```



EFFECT OF X ON Y WITH THE COLLIDER



```
m2 = ulam(alist(
 y ~ normal(a + bx*x + bz*z, sigma),
 a ~ normal(0, 0.3),
 bx ~ normal(0, 0.3),
 bz ~ normal(0, 0.3), # Collider
 sigma ~ exponential(1)),
 data = list(y = y, x = x, z = z),
 iter = 1000, chains = 4, cores = 4)
```

