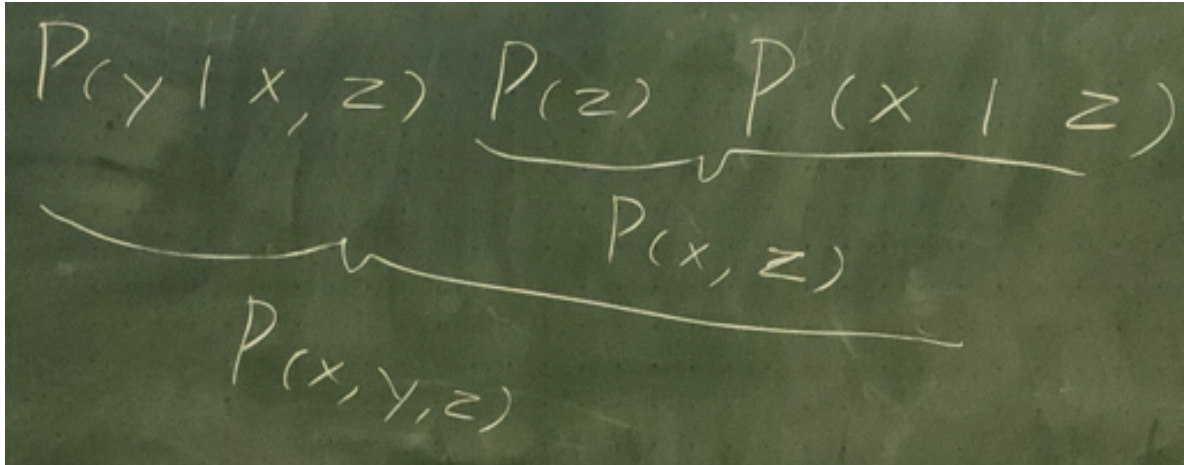


## L5 More About Interventions

10/10

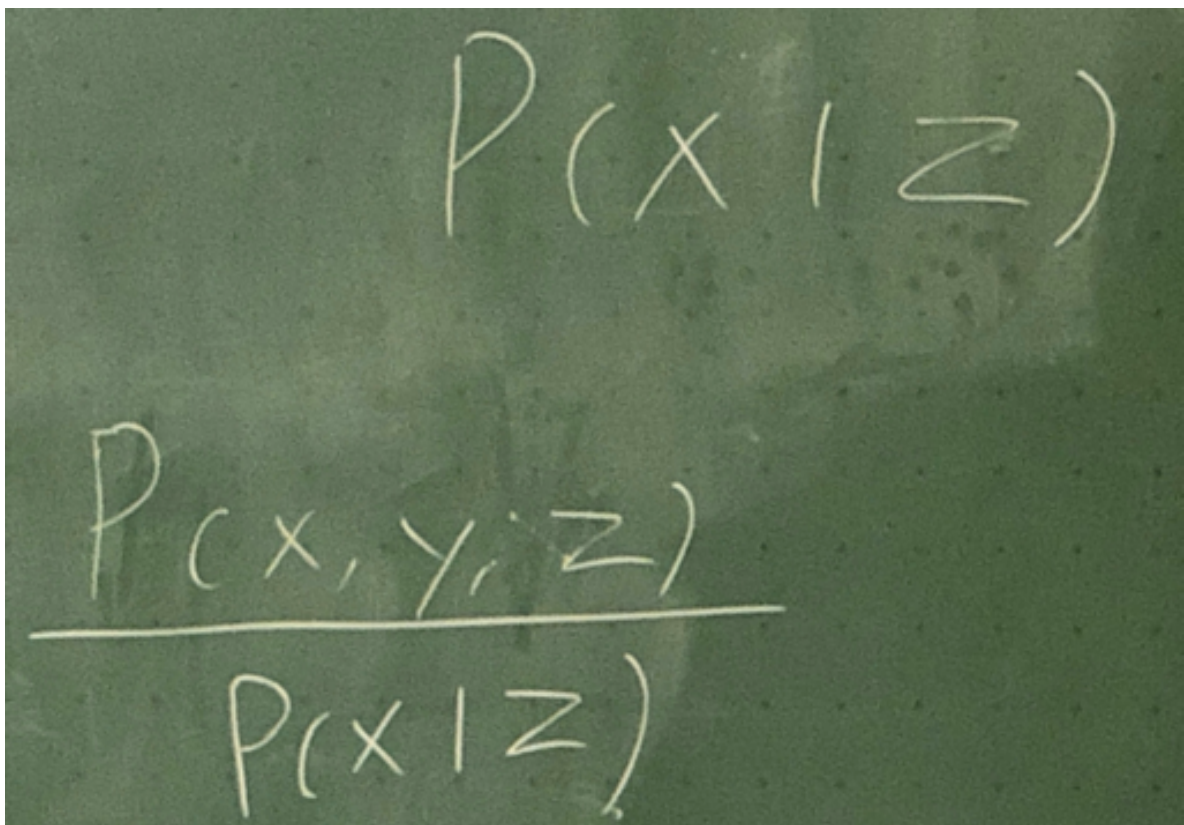
Joint distribution of X and Z is calculated on the left and fed into the simplified formula.

We have the joint distribution, in order to get Y, we need to divide by it.


$$\frac{P(y | x, z) \cdot P(z) \cdot P(x | z)}{P(x, z)} = P(x, y, z)$$

13/10

Disadvantage explanation where if there is low probability (very little data), it might affect the data points as it gives higher weights than would represent the reality.


$$\frac{P(x, y, z)}{P(x | z)} = P(x | z)$$

