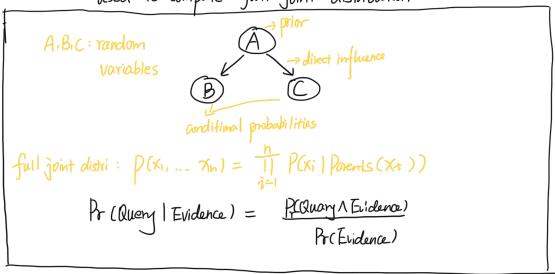
15 Bayesian Hetworks

A data structure:

represent (in)dependencies among random variables used to compute full joint distribution



example:

$$P(B|J=True, Many=True) = P(B,J,M) - O$$
 (\$4+ Rigitz)

Complexity: Time: O(1) Space: O(n)

Notes:

BH encodes conditional independence assumptions and store conditional probs

Exact - inference with BH:

MP- hard

解決於 (dynamic programming appximate interen