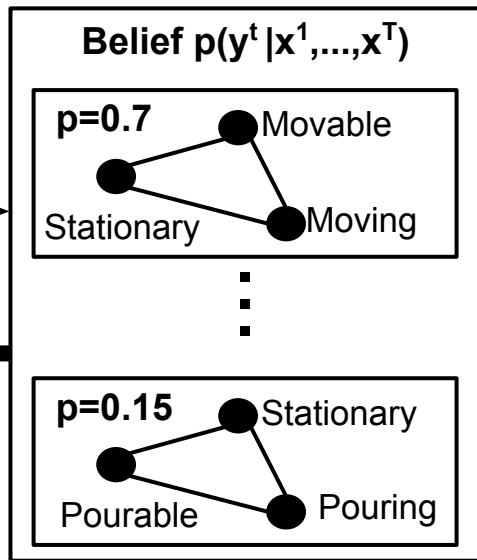
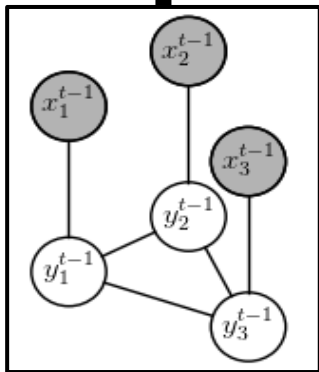


**Forward
Messages
 $\alpha^t(y^t)$**

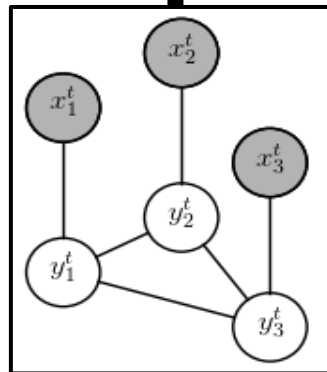
**Backward
Messages
 $\beta^{t-1}(y^{t-1})$**



**CRF
likelihood** \uparrow **$p(y^{t-1} | x^{t-1})$**



**CRF
likelihood** \uparrow **$p(y^t | x^t)$**



Frame t-1



Frame t