

$t - 1$ t

$$P(A_t, O|Y_{0:t}; \theta_a^*, \theta_o^*, \Psi_{0:t}, \alpha_{0:t})$$

$$P_{\cap}(O = 6|Y_{0:t-1}; \theta_a^*, \theta_o^*, \bar{\Psi}_{0:t}, \alpha_{0:t})$$

$$P_{\cap}(O = 6|Y_{0:t}; \theta_a^*, \theta_o^*, \Psi_{0:t}, \alpha_{0:t})$$

