



$$q_{\phi}(\tilde{\mathbf{Z}}^{(i)} | \mathbf{Y}_A^{(i)}, \mathbf{Y}_B^{(i)})$$

$$p_{\psi}(\mathbf{Y}_A^{(i)}, \mathbf{Y}_B^{(i)} | \tilde{\mathbf{Z}}^{(i)})$$