



Here,  $\pi_j$ 's and  $y_i$ 's are fully connected.

All  $z_j$ 's are connected to  $\pi^*$

Here, each  $r_j$  and  $q_j$  connect only with corresponding  $\pi_j$ .

Here, all  $z_j$ 's are fully connected to all  $r_j$ 's and all  $q_j$ 's.

Edges pointing to a node  $i$  represent dependencies of  $i$  on those parents in  $i$ 's complete conditional posterior.

Eg. After conditioning on all other variables,  $q_j$  is still dependent on  $a_1$ , so receives an edge from  $a_1$  to  $q_j$ .