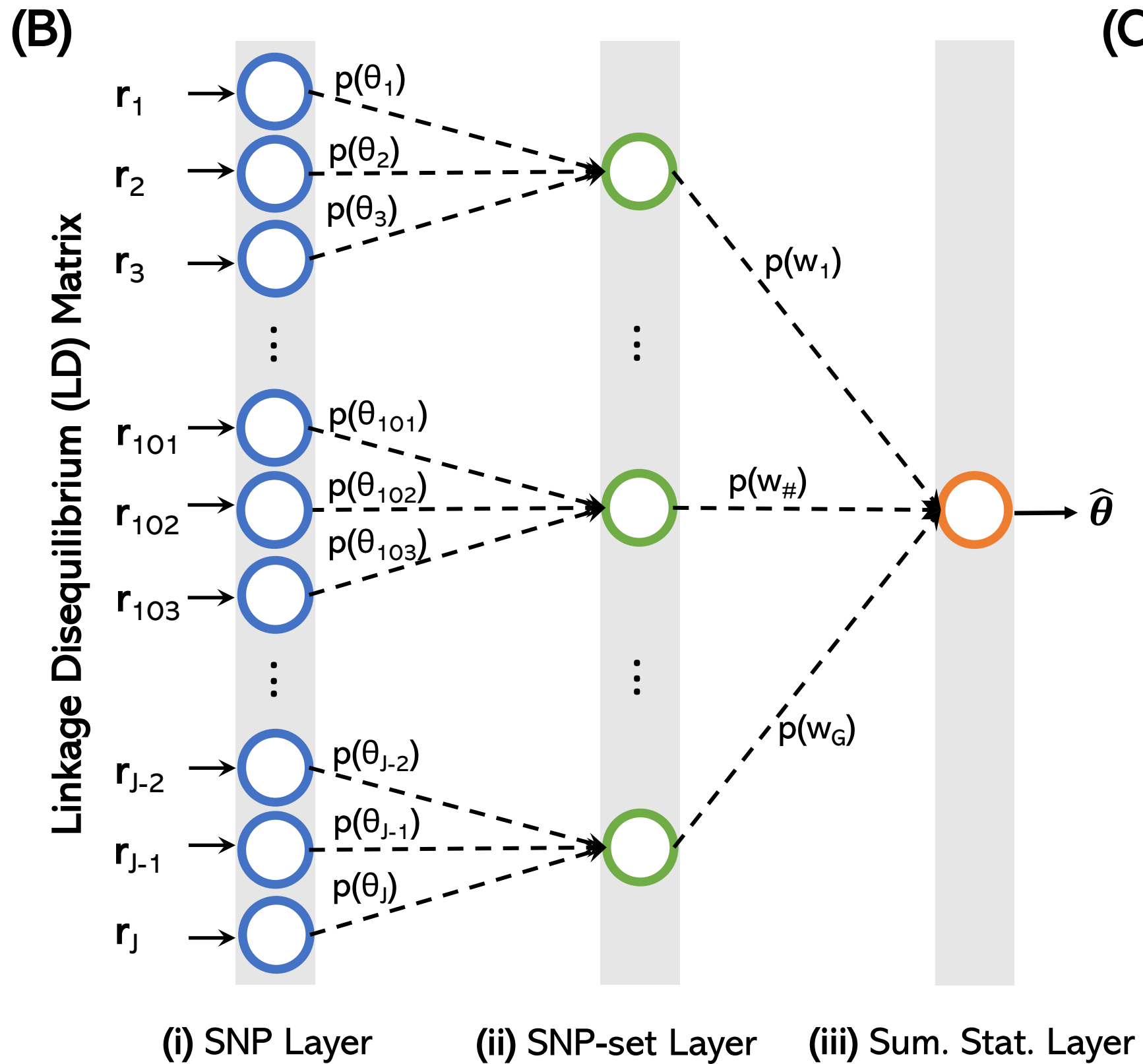


(A)

SNP-Set	Chr	Start	End	SNP Sum. Stat.
S_1	1	69090	70008	$\hat{\theta}_1, \hat{\theta}_2, \hat{\theta}_3$
S_2	1	3676581	368597	$\hat{\theta}_4, \hat{\theta}_5, \hat{\theta}_6$
\vdots	\vdots	\vdots	\vdots	\vdots
$S_{\#}$	6	29200	351355	$\hat{\theta}_{101}, \hat{\theta}_{102}, \hat{\theta}_{103}$
$S_{\#+1}$	6	391751	411443	$\hat{\theta}_{104}, \hat{\theta}_{105}, \hat{\theta}_{106}$
\vdots	\vdots	\vdots	\vdots	\vdots
S_{G-1}	22	51195513	51237934	$\hat{\theta}_{J-5}, \hat{\theta}_{J-4}, \hat{\theta}_{J-3}$
S_G	22	51205919	51222087	$\hat{\theta}_{J-2}, \hat{\theta}_{J-1}, \hat{\theta}_J$



(C)

Full Model Specification:

$$\hat{\theta} = \sum_{g=1}^G h \left(\mathbf{R}_g \boldsymbol{\theta}_g + \mathbf{1} b_g^{(1)} \right) w_g + \mathbf{1} b^{(2)}$$

SNP-set Level Effects:

$$w_g \sim \pi_w \mathcal{N}(0, \sigma_w^2) + (1 - \pi_w) \delta_0$$

Hyper-prior Distributions:

$$\log(\pi_w) \sim \mathcal{U}(-\log(G), \log(1))$$

SNP-Level Effects:

$$\theta_j \sim \pi_{\theta} \sum_{k=1}^K \eta_{\theta k} \mathcal{N}(0, \sigma_{\theta k}^2) + (1 - \pi_{\theta}) \delta_0$$

Hyper-prior Distributions:

$$\log(\pi_{\theta}) \sim \mathcal{U}(-\log(J), \log(1))$$