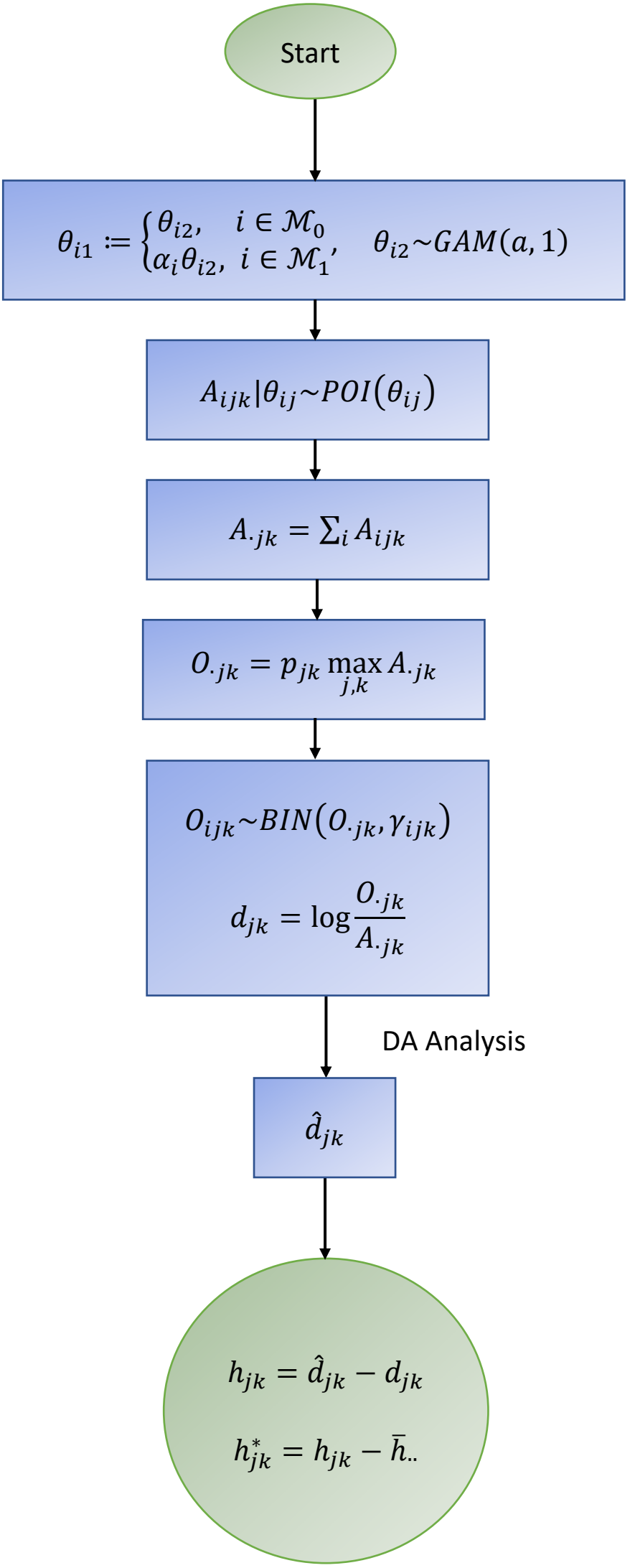
Start
$\theta_{i1} := \begin{cases} \theta_{i2}, & i \in \mathcal{M}_0 \\ \alpha_i \theta_{i2}, & i \in \mathcal{M}_1 \end{cases}$, $\theta_{i2} \sim GAM(a, 1)$
$A_{ijk}|\theta_{ij} \sim POI(\theta_{ij})$
$A_{.jk} = \sum_i A_{ijk}$
$O_{.jk} = p_{jk} \max_{j,k} A_{.jk}$
$O_{ijk} \sim BIN(O_{.jk}, \gamma_{ijk})$
$d_{jk} = \log \frac{O_{.jk}}{A_{.jk}}$
DA Analysis
$\hat{d}_{jk}$
$h_{jk} = \hat{d}_{jk} - d_{jk}$
$h^*_{jk} = h_{jk} - \bar{h}_{..}$