Bayesian and SEM model diagrams

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$\mathbf{x}_5$ $\mathbf{x}_6$ $\mathbf{x}_7$ $\mathbf{x}_8$

λ_{12} λ_{22} λ_{32} λ_{42}

$\mathbf{x}_1$ λ_{11}

$\mathbf{x}_2$ λ_{21}

λ_{31}

$\mathbf{x}_3$

λ_{41}

$\mathbf{x}_4$

$\boldsymbol{\eta}_1$ γ_{21} $\boldsymbol{\eta}_2$

γ_{13} γ_{23}

$\boldsymbol{\eta}_3$

λ_{13} λ_{23} λ_{33} λ_{43}

$\mathbf{x}_9$ $\mathbf{x}_{10}$ $\mathbf{x}_{11}$ $\mathbf{x}_{12}$

$\boldsymbol{\mu}_\alpha$ $\boldsymbol{\sigma}_\alpha$ $\boldsymbol{\sigma}_\beta$ $\boldsymbol{\mu}_\beta$

k conditions

$\boldsymbol{\alpha}_i$ $\boldsymbol{\mu}_{ik}$ $\boldsymbol{\beta}_i$

$X_{ik\ell}$

$Y_{ik\ell}$

ℓ trials

$\boldsymbol{\sigma}_i$ $\boldsymbol{\delta}_i$

i subjects

$\boldsymbol{\mu}_\sigma$ $\boldsymbol{\sigma}_\sigma$ $\boldsymbol{\sigma}_\delta$ $\boldsymbol{\sigma}_\delta$

i participant