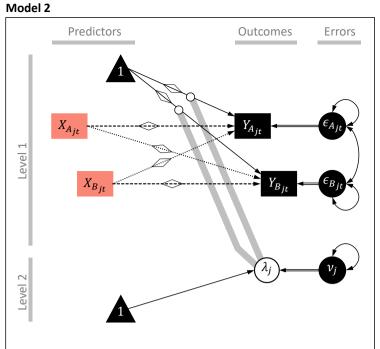
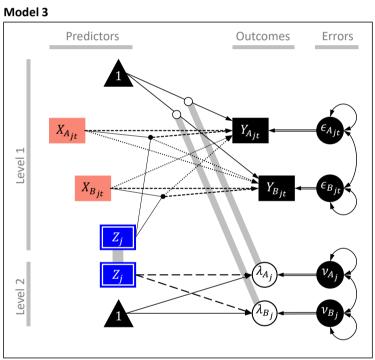
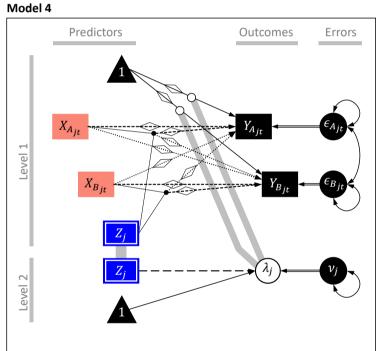
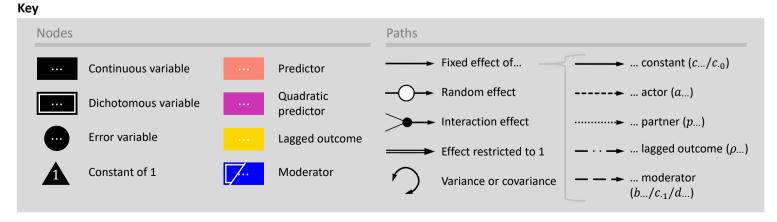
Model 1 Predictors Outcomes $X_{A_{jt}}$ $X_{A_{jt}}$ $X_{B_{jt}}$ $X_{A_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$

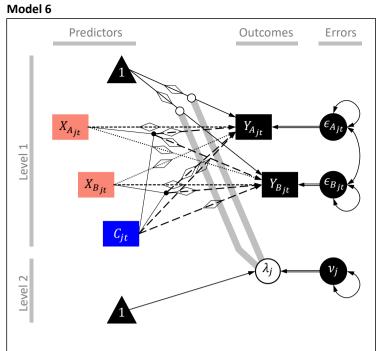


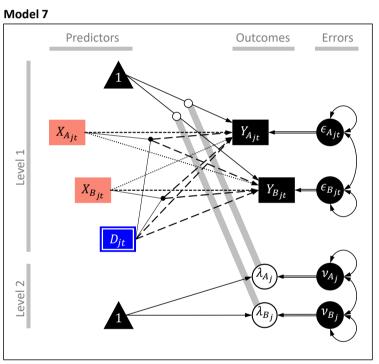


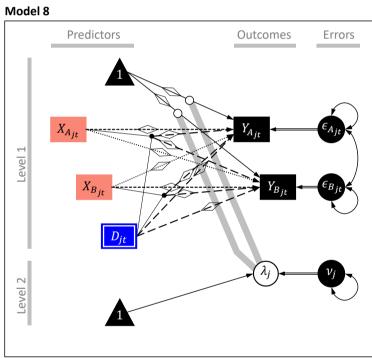


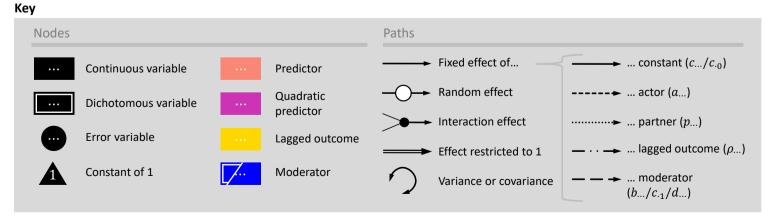


Predictors Outcomes X_{Ajt} X_{Bjt} X_{Bjt}



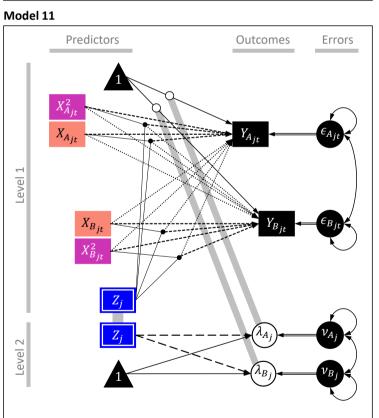


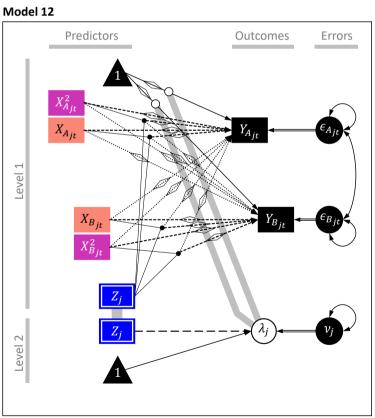


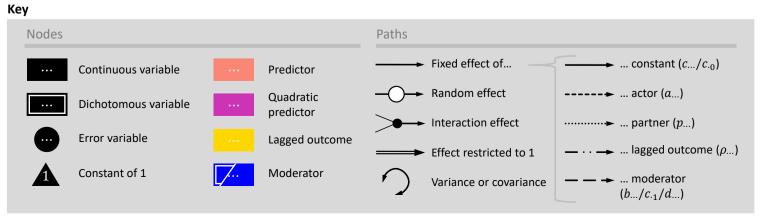


Model 9 Predictors Outcomes $X_{A_{jt}}$ $X_{A_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$

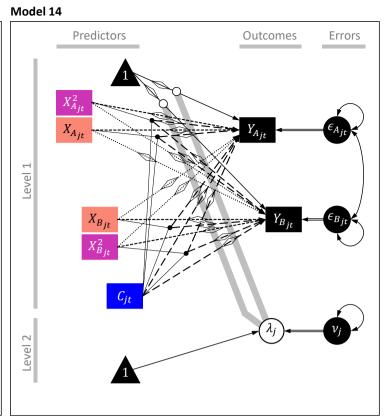
Model 10 Predictors Outcomes $X_{A_{jt}}$ $X_{A_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$ $X_{B_{jt}}$

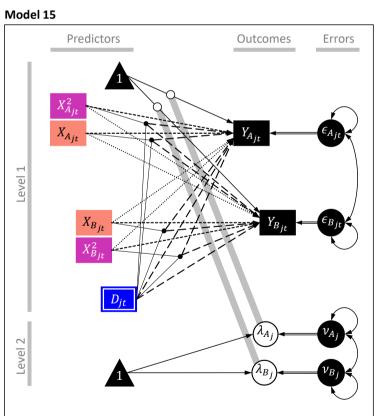


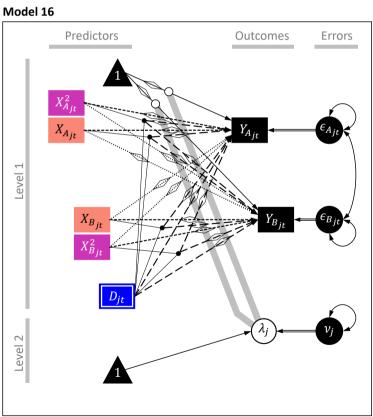




Predictors Outcomes X_{Ajt} X_{Ajt} X_{Bjt} X_{Bjt}

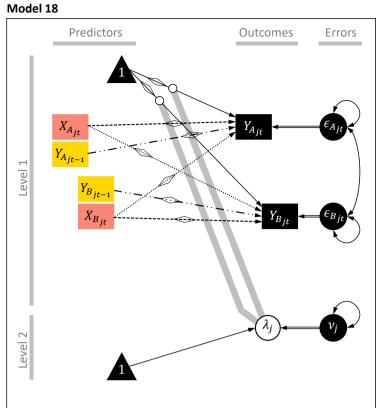


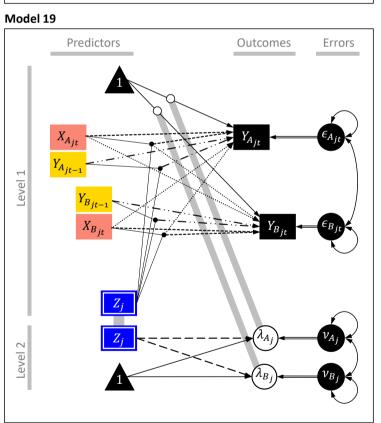


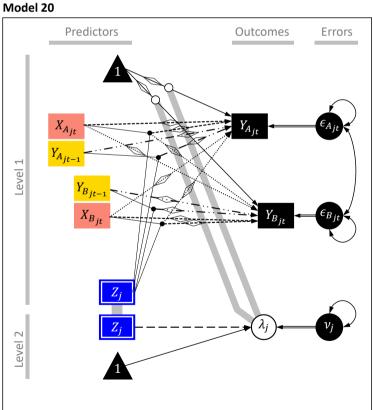


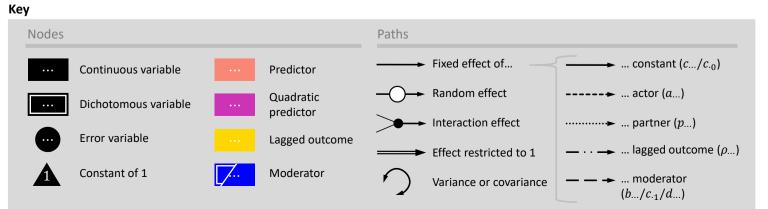
Key Nodes Paths Fixed effect of... \rightarrow ... constant $(c.../c._0)$ Continuous variable Predictor Random effect ---- ... actor (a...)Quadratic Dichotomous variable predictor Interaction effect …… \blacktriangleright ... partner (p...) Error variable Lagged outcome ... lagged outcome (ρ ...) Effect restricted to 1 Constant of 1 Moderator ... moderator Variance or covariance $(b.../c._1/d...)$

Model 17 Predictors Outcomes $X_{A_{jt}}$ $Y_{A_{jt-1}}$ $Y_{B_{jt-1}}$ $Y_{B_{jt}}$ $Y_{B_{jt}}$ $Y_{B_{jt}}$ $Y_{B_{jt}}$ $Y_{B_{jt}}$

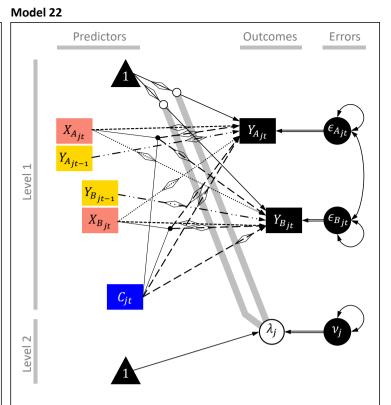


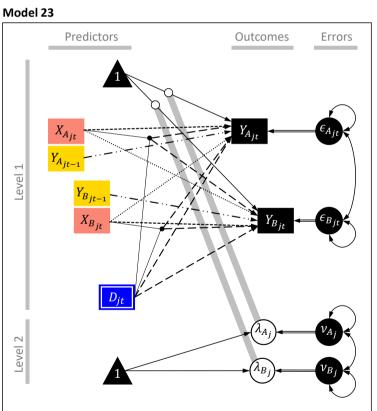


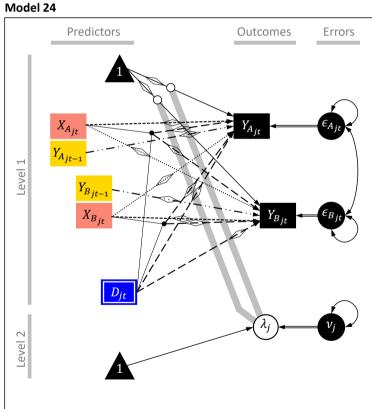


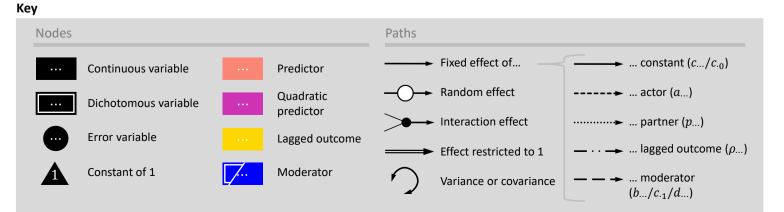


Model 21 Predictors Outcomes X_{Ajt} Y_{Ajt} Y_{Ajt} Y_{Bjt-1} X_{Bjt} X_{Bjt} X_{Ajt} Y_{Bjt-1} X_{Bjt} Y_{Bjt} Y_{Bjt} Y_{Bjt} Y_{Bjt} Y_{Bjt}



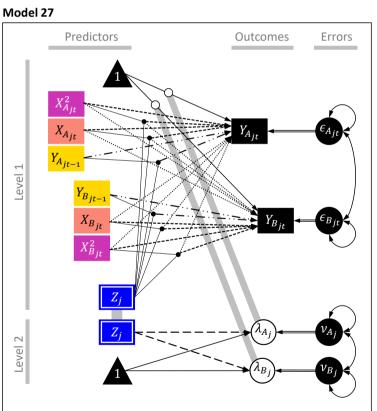


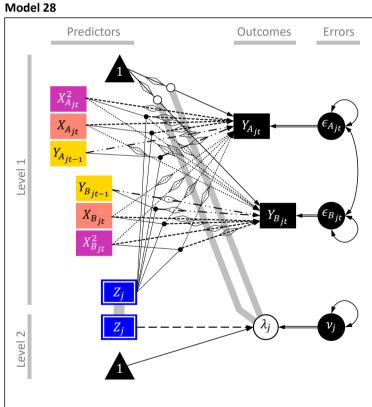


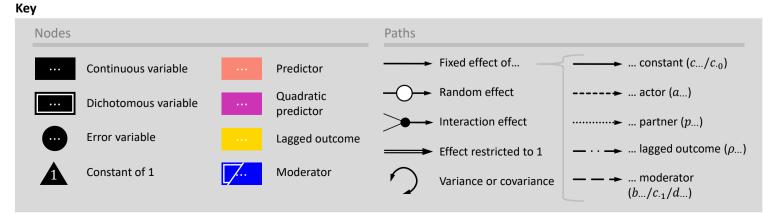


Model 25 Predictors Outcomes Errors $X_{A_{jt}}^{2}$ $Y_{A_{jt}}$ $Y_{A_{jt}}$ $Y_{B_{jt}}$ $X_{B_{jt}}^{2}$ $X_{B_{jt}}^{2}$

Model 26 Predictors Outcomes $X_{A_{jt}}^2$ $Y_{A_{jt}}$ $Y_{A_{jt-1}}$ $Y_{B_{jt-1}}$ $Y_{B_{jt}}$ $Y_{B_{jt}}$ $Y_{B_{jt}}$



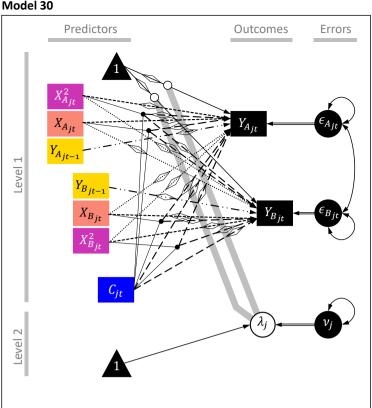




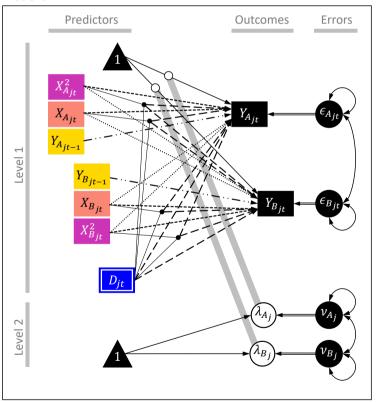
Level 2

Model 29 **Predictors** Outcomes **Errors** $X_{A_{jt}}$ $Y_{A_{jt-1}}$ Level 1 Level 2

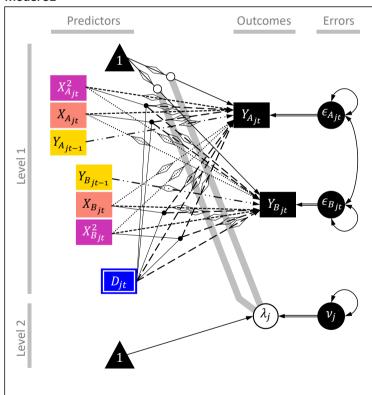








Model 32



Key

