




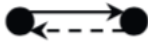






## Electronic Appendix 1

### Graphic representation and interpretation of the SAOM parameters used in this study

Model Parameter	Figure	Interpretation (Rsiena shortname)
<b><i>Effects of Covariates of Relationship Selection, Maintenance, and Creation Over Time</i></b>		
Covariate ego / Activity		Actor $i$ with higher values on a covariate ( $v$ ) extends more outgoing ties {egoX}
Covariate alter /Popularity		Actor $i$ with higher values on a covariate ( $v$ ) attracts more incoming ties {altX}
Covariate same/ Homophily		Actor $i$ extends ties to alter $j$ who has exactly the same values on a covariate ( $v$ ), when $v$ is a binary variable {sameX}
Covariate similarity/ Homophily		Actor $i$ extends ties to alter $j$ who is similar in values on a covariate ( $v$ ), when $v$ is a continuous variable {simX}
<b><i>Network Structural Effects</i></b>		
Outdegree		Actor $i$ extending ties to alter $j$ {density}
Reciprocity		Actor $i$ reciprocating ties to alter $j$ {recip}
Transitive triplets		Actor $i$ extending ties to alter $j$ to whom he is indirectly tied (via actor $h$ ) {transTrip}
Transitive Reciprocated Triplets		Actor $i$ has a reciprocal tie to alter $j$ to whom he is indirectly tied (via actor $h$ ) {transRecTrip}
3-cycles		Actor $i$ extending ties to alter $j$ to whom he is indirectly tied (via actor $h$ ) {cycle3}
Transitive Ties		Actor $i$ extending ties to alter $j$ to whom he is directly and indirectly tied (via actor $h$ ) (one indirect tie suffices) {transTies}

Balance



Similarity between the outgoing ties of actor  $i$  and the outgoing ties of the other actors  $j$  to whom  $i$  is tied {balance}

Number of actors at dist 2



the number of actors to whom actor  $i$  is indirectly tied (through at least one intermediary, i.e., at sociometric distance 2) {nbrDist2}

Indegree – popularity (sqrt)



Actors with many incoming ties attract more incoming ties {inPopSqrt}

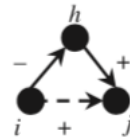
Outdegree – popularity (sqrt)



Actors with many outgoing ties extend more outgoing ties {outActSqrt}

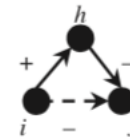
### ***Cross-Network Effects***

Conflict to agreement effect in friend network



Conflict between  $i$  and  $h$  and friendship between  $h$  and  $j$  lead to friendship between  $i$  and  $j$  {to}

Friend to agreement effect in conflict network



Friendship between  $i$  and  $h$  and conflict between  $h$  and  $j$  lead to conflict between  $i$  and  $j$  {to}