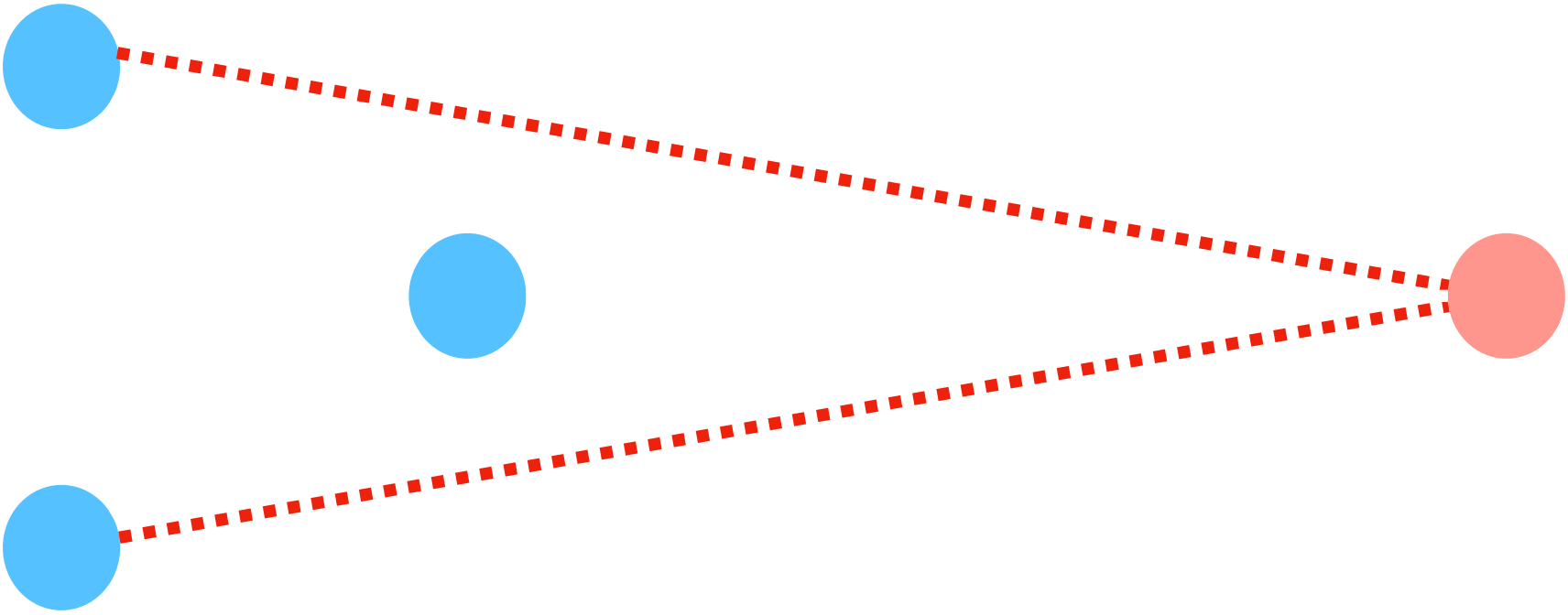


given:

find:

subject to:

inference using a model-based approach

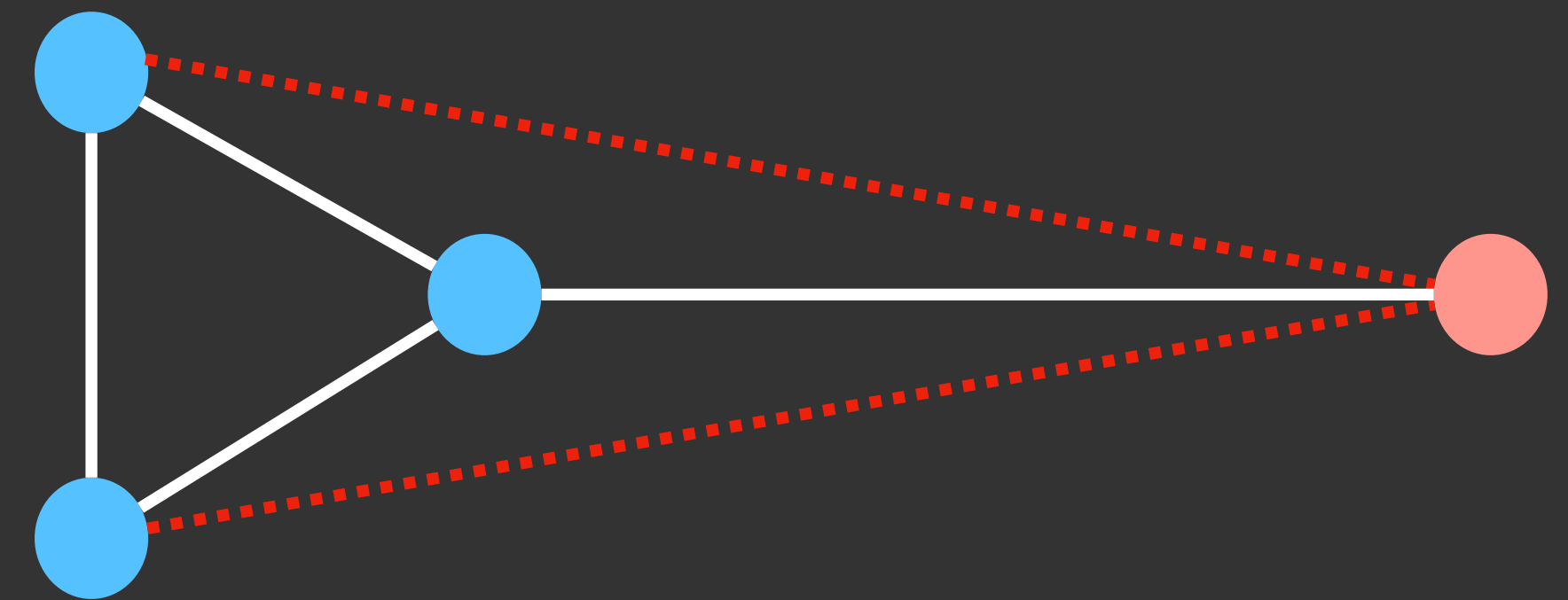


reconstructing networks of the past

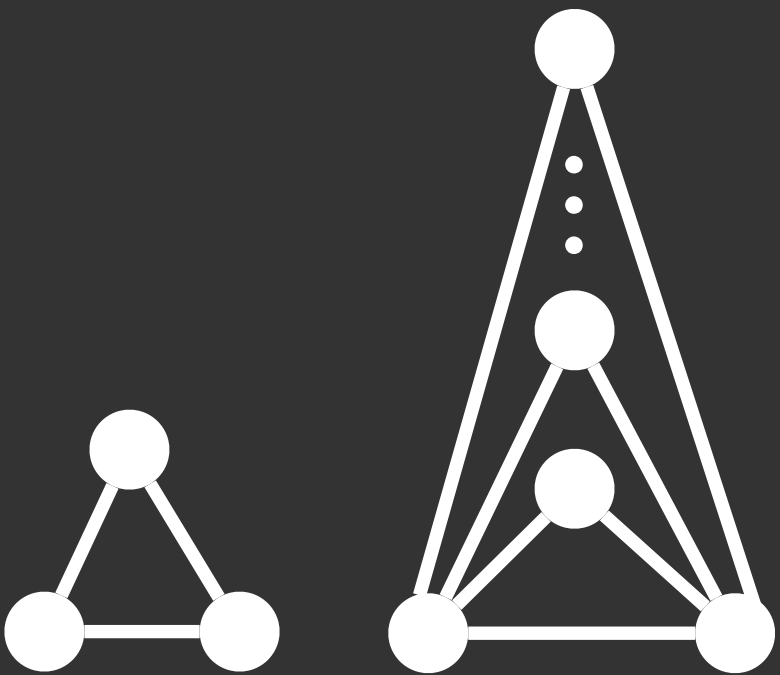
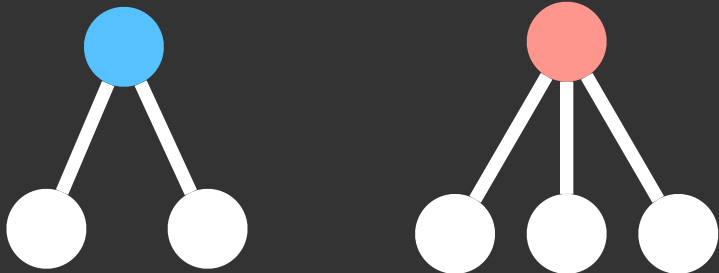
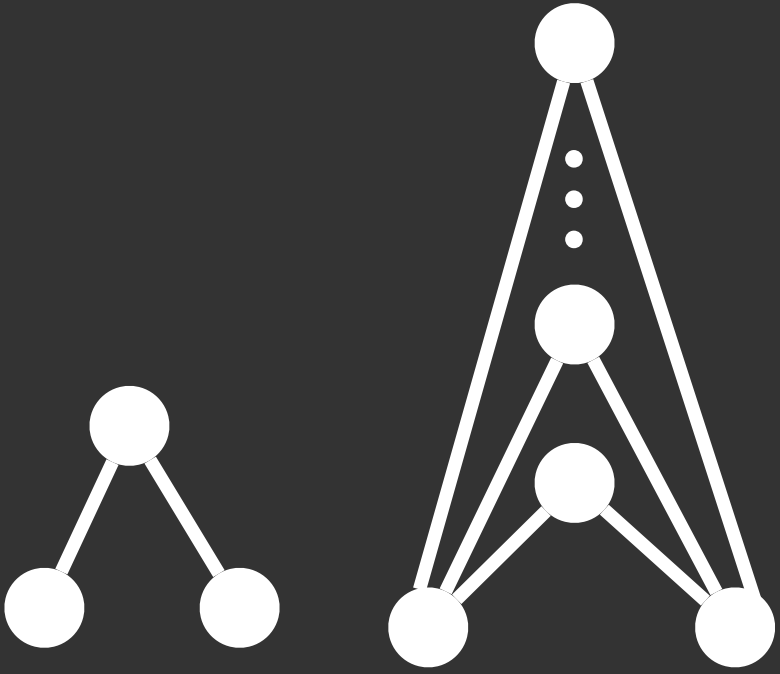
archaeological networks: new framework using ERGMs

infer ties using a model-based approach

given: fragmentary data
find: plausible completion
subject to: constraints and assumptions



Burt's theory on structural holes (2001) \implies define structurally efficient networks

network property	configuration	tendency for/against	reference
cohesion		sites to share contacts	Blake (2014) Boomert (2000) Keegan (2007)
node covariate		sites with certain attributes having more contacts	Hofman et al. (2014)
connectedness		presence of intermediaries regulating contacts	Knippenberg (2007)