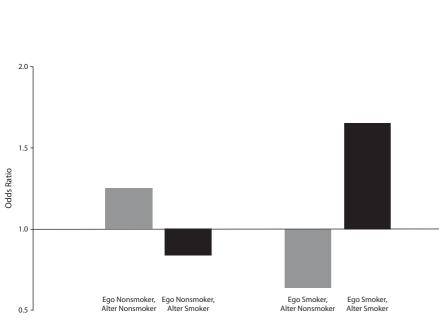
A Few Examples



Note. Nonsmoker defined as no smoking in past 30 days; smoker defined as smoking ≥ 12 of the past 30 days. We calculated odds ratios relative to the odds of ego (i.e., respondent) selecting an alter (i.e., peer) with intermittent smoking (1-11 of the past 30 days). All other effects are held constant

FIGURE 2-Odds ratios of friend selection on the basis of smoking frequency of ego and alter: National Longitudinal Study of Adolescent Health, 1994-1996.

Schaefer DR, Haas SA, Bishop NJ. A Dynamic Model of US Adolescents' Smoking and Friendship Networks.

American Journal of Public Health 2012;102(6):e12-e18.

TABLE 2-Estimates From Stochastic Actor-Based Model Testing Smoking and Friendship Coevolution With Add **Health Sample: National Longitudinal** Study of Adolescent Health, 1994-1996

Effect	b (SE)	
Smoking behavior function		
Rate	2.065*** (0.270)	
Linear shape	-0.107 (0.265)	
Quadratic shape	1.162*** (0.186)	
Female	0.155 (0.189)	
Age	-0.005 (0.092)	
Parent smoking	0.016 (0.218)	
Delinquency	0.432* (0.183)	
Alcohol	-0.102 (0.138)	
GPA	-0.089 (0.132)	
Average similarity	2.883*** (0.855)	
In-degree	-0.041 (0.139)	
In-degree squared	0.002 (0.012)	

Friend	sele	ction	funct	io

Rate	10.241*** (0.505)
Rate: truncated roster	-1.178** (0.452)
Out-degree	-3.935*** (0.170)
Reciprocity	1.916*** (0.085)
Transitive triplets	0.515*** (0.035)
Popularity (square root of	0.290*** (0.037)

In-degree)	
Extracurricular activity overlap	0.275*** (0.060)
Female	
Similarity	0.237*** (0.045)
Alter	-0.111* (0.046)
Ego	-0.039 (0.053)
Age	
Similarity	1.004*** (0.125)
Alter	-0.009 (0.029)
Ego	-0.037 (0.031)
Delinquency	
Similarity	0.147 (0.080)
Alter	-0.039 (0.040)
Ego	0.019 (0.043)

Alter -0.028 (0.035) -0.029 (0.039) 0.706*** (0.133) Similarity Alter -0.054 (0.035) -0.019 (0.040) Ego

0.269** (0.101)

Smoking

Alcohol

Similarity

Omorms	
Similarity	0.683*** (0.126)
Alter	0.130* (0.062)
Alter squared	0.023 (0.171)
Ego	-0.039 (0.055)

Note. GPA = grade point average.

*P < .05; **P < .01; ***P < .001 (2-tailed tests).



