

Supplementary Tables for Formation of Raiding Parties for Inter-Group Violence Is Mediated by Social Network Structure

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Supplementary Table S1: Individual Level Summary Statistics

<i>Variable</i>	<i>Mean</i>	<i>SD</i>	<i>Min</i>	<i>Max</i>
Height (cm)	175.4	6.36	160	196
Weight (kg)	58.5	6.46	42	71
Number of Siblings	1.0	1.34	0	5
Paternal Wealth	12.3	3.47	6	18
In-Degree (Number of Friendship Nominations)	3.0	2.67	0	13

Supplementary Table S2: Regression of Total Participation on Height

	<i>Dependent Variable: Number of Times Participated in Raids (Full Population)</i>			<i>Dependent Variable: Number of Times Participated in Raids (Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Height (cm)	0.036	0.059	0.537	-0.033	0.039	0.397
Intercept	-3.414	10.318	0.742	8.144	6.785	0.234
R ²		0.005			0.010	
N		76			72	

OLS regression of total number of times a person participated in raids on height.

Supplementary Table S3: Regression of Total Participation on Weight

	<i>Dependent Variable: Number of Times Participated in Raids (Full Population)</i>			<i>Dependent Variable: Number of Times Participated in Raids (Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Weight (kg)	0.120	0.056	0.036	0.010	0.036	0.773
Intercept	-4.039	3.313	0.227	1.761	2.084	0.401
R ²		0.058			0.001	
N		76			72	

OLS regression of total number of times a person participated in raids on weight.

Supplementary Table S4: Regression of Total Participation on Number of Siblings

	<i>Dependent Variable:</i> <i>Number of Times Participated in Raids</i> <i>(Full Population)</i>			<i>Dependent Variable:</i> <i>Number of Times Participated in Raids</i> <i>(Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Siblings (#)	0.696	0.248	0.006	0.397	0.144	0.007
Intercept	2.230	0.414	0.000	1.900	0.231	0.000
R ²		0.081			0.083	
N		91			86	

OLS regression of total number of times a person participated in raids on the number of siblings. Both paternal and maternal siblings are counted.

Supplementary Table S5: Regression of Total Participation on Paternal Wealth

	<i>Dependent Variable: Number of Times Participated in Raids (Full Population)</i>			<i>Dependent Variable: Number of Times Participated in Raids (Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Paternal Wealth	0.350	0.116	0.004	0.163	0.079	0.046
Intercept	-1.631	1.476	0.276	0.212	0.989	0.832
R ²		0.186			0.100	
N		42			40	

OLS regression of total number of times a person participated in raids on paternal wealth.

Supplementary Table S6: Regression of Total Participation on Social Network Degree

	<i>Dependent Variable:</i> <i>Number of Times Participated in Raids</i> <i>(Full Population)</i>			<i>Dependent Variable:</i> <i>Number of Times Participated in Raids</i> <i>(Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>P</i>
In-degree (non-sibling friends)	0.766	0.120	0.000	0.495	0.064	0.000
Intercept	0.989	0.417	0.020	1.099	0.213	0.000
R ²		0.315			0.416	
N		91			86	

OLS regression of total number of times a person participated in raids on in-degree (net of siblings) in the gift-giving network.

Supplementary Table S7: Regression of Total Participation on Individual Characteristics

	<i>Dependent Variable:</i> <i>Number of Times Participated in Raids</i> <i>(Full Population)</i>			<i>Dependent Variable:</i> <i>Number of Times Participated in Raids</i> <i>(Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Height (cm)	0.181	0.077	0.026	0.034	0.067	0.613
Weight (kg)	0.097	0.072	0.191	0.105	0.052	0.056
Siblings (#)	0.160	0.278	0.570	-0.228	0.214	0.296
Paternal Wealth	0.282	0.122	0.028	0.168	0.091	0.076
In-degree (non-sibling friends)	0.453	0.170	0.012	0.338	0.124	0.011
Intercept	-40.121	11.777	0.002	-12.690	10.729	0.247
R ²		0.577			0.434	
N		36			34	

OLS regression of total number of times a person participated in raids on height, weight, number of siblings, paternal wealth, and in-degree (net of siblings).

Supplementary Table S8: Regression of Network In-degree (Net of Siblings) on Height

	<i>Dependent Variable:</i>			<i>Dependent Variable:</i>		
	<i>In-degree</i>			<i>In-degree</i>		
	<i>(Full Population)</i>			<i>(Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Height (kg)	-0.041	0.045	0.366	-0.74	0.050	0.138
Intercept	9.864	7.927	0.217	15.519	8.677	0.078
R ²		0.011			0.031	
N		76			72	

OLS regression of in-degree (net of siblings) for the gift-giving network on height.

Supplementary Table S9: Regression of Network In-degree (Net of Siblings) on Weight

	<i>Dependent Variable:</i>			<i>Dependent Variable:</i>		
	<i>In-degree</i>			<i>In-degree</i>		
	<i>(Full Population)</i>			<i>(Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>P</i>
Weight (kg)	0.003	0.045	0.945	-0.026	0.046	0.576
Intercept	2.478	2.630	0.349	4.018	2.689	0.140
R ²		0.000			0.004	
N		76			72	

OLS regression of in-degree (net of siblings) for the gift-giving network on weight.

Supplementary Table S10: Regression of Network In-degree (Net of Siblings) on Number of Siblings

	<i>Dependent Variable:</i>			<i>Dependent Variable:</i>		
	<i>In-degree</i>			<i>In-degree</i>		
	<i>(Full Population)</i>			<i>(Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>P</i>
Siblings (#)	0.711	0.174	0.000	0.664	0.182	0.000
Intercept	1.820	0.290	0.000	1.750	0.293	0.000
R ²		0.158			0.137	
N		91			86	

OLS regression of in-degree (net of siblings) for the gift-giving network on the number of siblings. Both paternal and maternal siblings are counted.

Supplementary Table S11: Regression of Network In-degree (Net of Siblings) on Paternal Wealth

	<u>Dependent Variable:</u> <i>In-degree</i> <i>(Full Population)</i>			<u>Dependent Variable:</u> <i>In-degree</i> <i>(Non-Leaders Only)</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Paternal Wealth	0.286	0.098	0.006	0.254	0.104	0.019
Intercept	-0.997	1.256	0.432	-0.659	1.299	0.615
R ²		0.175			0.136	
N		42			40	

OLS regression of in-degree (net of siblings) for the gift-giving network on paternal wealth.

Supplementary Table S12: Regression of Network In-degree (Net of Siblings) on Leadership Status

<i>Dependent Variable:</i>			
<i>In-Degree</i>			
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Leadership Status	2.816	1.065	0.010
Intercept	2.384	0.250	0.000
R ²		0.073	
N		91	

OLS regression of in-degree (net of siblings) for the gift-giving network on leadership status.

Supplementary Table S13: Regression of Eigenvector Centrality on Network In-degree (Net of Siblings), Leadership Status, and Number of Siblings

<i>Dependent Variable:</i>			
<i>Eigenvector Centrality</i>			
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Siblings (#)	0.011	0.003	0.001
In-Degree	0.014	0.014	0.000
Leadership Status	0.038	0.018	0.044
Intercept	0.040	0.006	0.000
R ²		0.564	
N		91	

OLS regression of eigenvector centrality for the gift-giving network on number of siblings, in-degree (net of siblings), and leadership status.

Supplementary Table S14: Regression of Raid Participation on General Raid Composition

	<i>Dependent Variable:</i>		
	<i>Raid Participation</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
# Leaders on Raid	-0.002	0.006	0.690
# Non-leaders on Raid	0.006	0.003	0.035
Intercept	0.048	0.015	0.001
Individual Fixed Effects		NO	
Raid Fixed Effects		NO	
R ²		0.004	
N		3549	

OLS regression of raid participation on raid composition, with multiway clustering of standard errors on participant and raid. Measures of raid composition exclude the participant (in other words, how many *other* leaders and non-leaders joined the raid?)

Supplementary Table S15: Regression of Raid Participation on General Raid Composition with Individual Fixed Effects

	<i>Dependent Variable:</i>		
	<i>Raid Participation</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
# Leaders on Raid	0.004	0.005	0.430
# Non-leaders on Raid	0.006	0.003	0.051
Individual Fixed Effects		YES	
Raid Fixed Effects		NO	
R ²		0.104	
N		3549	

OLS regression of raid participation on raid composition, with multiway clustering of standard errors on participant and raid. The model includes fixed effects (not shown) for individuals. Measures of raid composition exclude the participant (in other words, how many *other* leaders and non-leaders joined the raid?)

Supplementary Table S16: Regression of Raid Participation on Number of Non-leader Friends who Join the Raid

	<i>Dependent Variable: Raid Participation</i>			<i>Dependent Variable: Raid Participation</i>			<i>Dependent Variable: Raid Participation</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
# Non-leader Friends on Raid (Distance 1)	0.192	0.014	0.000	0.192	0.015	0.000	0.191	0.015	0.000
# Non-leader Friends of Friends on Raid (Distance 2)				-0.001	0.006	0.888	0.001	0.006	0.859
# Non-leader Friends of Friends of Friends on Raid (Distance 3)							-0.005	0.003	0.060
Intercept	0.014	0.006	0.023	0.014	0.004	0.001	0.021	0.004	0.000
Individual Fixed Effects		NO			NO			NO	
Raid Fixed Effects		NO			NO			NO	
R ²		0.218			0.218			0.219	
N		3549			3549			3549	

OLS regression of raid participation on the total number of non-leader friends at social distance 1, 2, and 3 who join the raid, with multiway clustering of standard errors on participant and raid.

Supplementary Table S17: Regression of Raid Participation on Social Aspects of Raid Composition (Leaders at Distance 1, Distance 1 and 2, and Distance 1, 2, and 3)

	<i>Dependent Variable:</i>			<i>Dependent Variable:</i>			<i>Dependent Variable:</i>		
	<i>Raid Participation</i>			<i>Raid Participation</i>			<i>Raid Participation</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
# Leader Friends on Raid (Distance 1)	0.140	0.022	0.000	0.140	0.022	0.000	0.143	0.022	0.000
# Leader Friends on Raid (Distance 2)	---	---	---	0.008	0.009	0.403	0.009	0.009	0.337
# Leader Friends on Raid (Distance 3)	---	---	---	---	---	---	0.013	0.008	0.118
Intercept	0.055	0.007	0.000	0.051	0.009	0.000	0.042	0.009	0.000
Individual Fixed Effects	NO			NO			NO		
Raid Fixed Effects	NO			NO			NO		
R ²	0.040			0.040			0.041		
N	3549			3549			3549		

OLS regression of raid participation on social aspects of raid composition – the total number of leaders at social distance 1, distance 1 and 2, and distance 1, 2, and 3 on raid, with multiway clustering of standard errors on participant and raid.

Supplementary Table S18: Regression of Raid Participation on Social Aspects of Raid Composition (Leaders and Friends up to Distance 3) with Individual and Raid Fixed Effects

<i>Dependent Variable:</i>			
<i>Raid Participation</i>			
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
# Leader Friends on Raid (Distance 1)	0.068	0.024	0.005
# Leader Friends on Raid (Distance 2)	-0.022	0.020	0.286
# Leader Friends on Raid (Distance 3)	-0.010	0.019	0.576
# Non-leader Friends on Raid (Distance 1)	0.189	0.017	0.000
# Non-leader Friends of Friends on Raid (Distance 2)	-0.016	0.006	0.007
# Non-leader Friends of Friends of Friends on Raid (Distance 3)	-0.009	0.005	0.064
Individual Fixed Effects		YES	
Raid Fixed Effects		YES	
R ²		0.309	
N		3549	

OLS regression of raid participation on social aspects of raid composition – the total number of leaders and non-leader friends at social distance 1, 2, and 3 on raid, with multiway clustering of standard errors on participant and raid. The model includes fixed effects (not shown) for both individuals and raids.

Supplementary Table S19: Regression of Raid Participation on Number of Siblings in Raid with and without Fixed Effects

	<i>Dependent Variable: Raid Participation</i>			<i>Dependent Variable: Raid Participation</i>			<i>Dependent Variable: Raid Participation</i>		
	<i>Raid Participation</i>			<i>Raid Participation</i>			<i>Raid Participation</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>	<i>Coef.</i>	<i>S.E.</i>	<i>P</i>	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
# Siblings on Raid	0.045	0.021	0.032	0.028	0.022	0.207	0.033	0.021	0.122
Intercept	0.070	0.009	0.000	---	---	---	---	---	---
Individual Fixed Effects	NO			YES			NO		
Raid Fixed Effects	NO			NO			YES		
R ²	0.004			0.101			0.021		
N	3549			3549			3549		

OLS regression of raid participation on the number of siblings participating in a raid, with multiway clustering of standard errors on participant and raid. Both paternal and maternal siblings are counted. The models in the middle and the right of the table include fixed effects (not shown) for individuals and for raids, respectively.

Supplementary Table S20: Regression of Raid Participation on Social Aspects of Raid Composition and Siblings with Individual and Raid Fixed Effects

	<i>Dependent Variable:</i>		
	<i>Raid Participation</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
# Leader Friends on Raid (Distance 1)	0.067	0.024	0.005
# Leader Friends on Raid (Distance 2)	-0.022	0.020	0.282
# Leader Friends on Raid (Distance 3)	-0.011	0.019	0.564
# Non-leader Friends on Raid (Distance 1)	0.189	0.017	0.000
# Non-leader Friends on Raid (Distance 2)	-0.016	0.006	0.007
# Non-leader Friends on Raid (Distance 3)	-0.009	0.005	0.056
# Siblings on Raid (Net Non-leader Friends and Leaders at Distance 1,2,3)	-0.067	0.056	0.229
Individual Fixed Effects		YES	
Raid Fixed Effects		YES	
R ²		0.310	
N		3549	

OLS regression of raid participation on social aspects of raid composition – the total number of leaders and non-leader friends at social distance 1, 2, and 3 on raid, as well as siblings (net leaders and non-leader friends at social distance 1, 2, and 3), with multiway clustering of standard errors on participant and raid. The model includes fixed effects (not shown) for both individuals and raids.

Supplementary Table S21: Regression of Number of Non-leader Friends on Raid on Whether a Person Joins the Raid and Their Leadership Status

<i>Dependent Variable:</i>			
<i>Number of Non-leader Friends</i>			
<i>On Raid</i>			
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Person Joins Raid	1.216	0.130	0.000
Leadership Status	0.056	0.056	0.316
Person Joining Raid x Leadership Status	-0.585	0.221	0.008
Individual Fixed Effects		NO	
Raid Fixed Effects		YES	
R ²		0.275	
N		3549	

OLS regression of number of non-leader friends on a raid on an indicator variable of whether a person joins the raid, leadership status, and the interaction of the indicators with raid fixed effects (not shown) and multiway clustering on individuals and raids.

Supplementary Table S22: Regression of Raid Participation on Social Aspects of Raid Composition Net of Siblings with Individual and Raid Fixed Effects

	<i>Dependent Variable:</i>		
	<i>Raid Participation</i>		
	<i>Coef.</i>	<i>S.E.</i>	<i>p</i>
Number of Siblings on Raid	0.009	0.020	0.642
Number of Non-Sibling Leaders on Raid (Distance 1)	0.084	0.026	0.002
Number of Non-Sibling Leaders on Raid (Distance 2)	-0.019	0.020	0.331
Number of Non-Sibling Leaders on Raid (Distance 3)	-0.009	0.018	0.631
Number of Non-Sibling, Non-leader Friends on Raid (Distance 1)	0.202	0.017	0.000
Number of Non-Sibling, Non-leader Friends on Raid (Distance 2)	-0.014	0.006	0.013
Number of Non-Sibling, Non-leader Friends on Raid (Distance 3)	-0.010	0.004	0.022
Individual Fixed Effects		YES	
Raid Fixed Effects		YES	
Residual		0.316	
N		3549	

OLS regression of raid participation on social aspects of raid composition – the total number of leaders and non-leader friends at social distance 1, 2, and 3 on raid (net leaders and non-leader friends at social distance 1, 2, and 3), both social relationships net of siblings, clustering standard errors on each participant and raid. The model includes fixed effects (not shown) for both individuals and raids.