

Showing Restraint, Signaling Resolve

Coalitions, Cooperation, and Coercive Diplomacy

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Research Agenda

Question (general). How does military cooperation (coalitions) affect patterns of war and peace?

- Choice of coalition partner affects
 - ▶ Threats, signaling, and war
 - Today
 - ▶ Conflict expansion
 - Forthcoming at *ISQ* (2014)
 - ▶ Peace (or not) among victors
 - In process
- Two formation papers (solo & w/Emily Ritter)

Research Question

Question (specific). How do coalition partners affect signaling behavior in crisis bargaining?

- Skittish partners often blamed for “weak” signals
 - ▶ Fearon 1997, Russett 1963
 - ▶ Christensen 2011, Byman & Waxman 2002
- Maintaining military cooperation critical
 - ▶ Berlin 1961
 - ▶ Kosovo 1999

Defining Concepts

What *are* military coalitions?

- ≥ 2 states that make a joint threat of war
- Not necessarily (indeed rarely) formal allies
- Bargain over threats, demands, compensation
- Must cooperate in carrying out threats

Therefore...

Crisis behavior affected by need to ensure cooperation

Motivation

The problem of “skittish” partners

- Sensitivity to costs of war
 - ▶ Domestic politics, geography, resource constraints, . . .
- Divergent preferences over mobilization/escalation
- Affects incentives for cooperation

Questions:

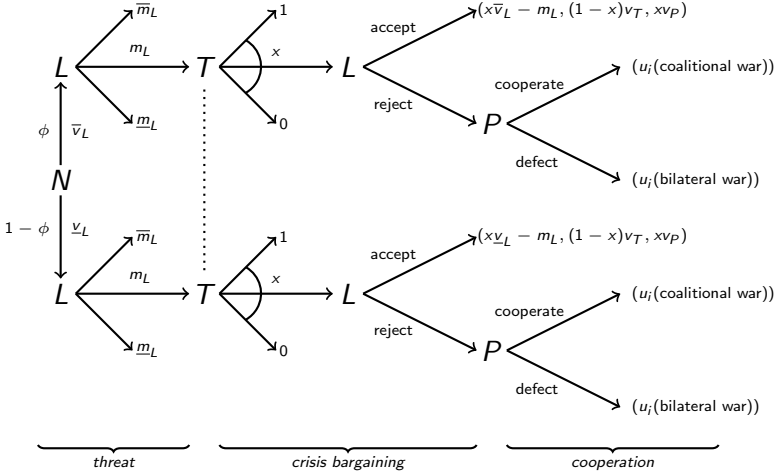
- When accommodate? Act alone?
- Effects on signaling? Chances of war?

Assumptions

Threats (signals), bargaining, military cooperation

- Leader, (potential) partner, target
- T uncertain over L's resolve (valuation of stakes)
- Mobilization affects military balance
 - ▶ Costly up front for L
 - ▶ Direct impact on P's costs for war
- Partner can refuse cooperation in event of war
 - ▶ (endogenous coalition formation)

Game Tree



Sets of Equilibria

Mobilization levels (high, low) may signal resolve

Three cases:

- Two players
 - ▶ No partner available
- Committed (i.e. non-skittish) partner
 - ▶ P cooperates for all mobilization levels
- Skittish partner
 - ▶ P cooperates iff low mobilization

Two Player & Committed Partner Equilibria

- Separating
 - ▶ Resolute L mobilizes high, irresolute low
 - ▶ Target does not risk war
- Semi-separating
 - ▶ Irresolute may bluff (high)
 - ▶ Target may risk war

Skittish Partner Equilibria

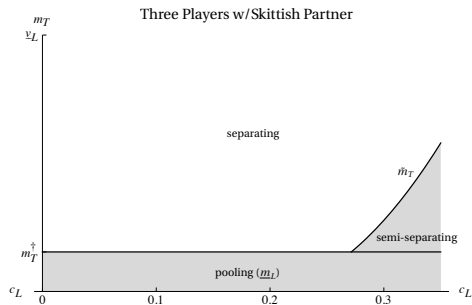
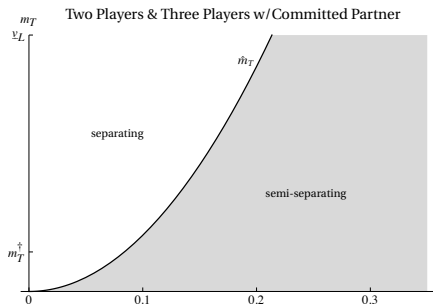
- Separating
 - ▶ Resolute L mobilizes high, irresolute low
 - ▶ Target does not risk war
- Semi-separating
 - ▶ Irresolute may bluff (high)
 - ▶ Target may risk war
- Pooling
 - ▶ Both types choose *low* mobilization
 - ▶ Target risks war

Equilibrium Summary

When P is skittish. . .

- Coalitions form around moderated threats
- When target is strong,
 - ▶ preserving cooperation is disincentive to bluff
 - ▶ partner's presence *reduces* probability of war
- When target is weak,
 - ▶ preserving cooperation is disincentive to separate
 - ▶ partner's presence *increases* probability of war

The Equilibrium Space

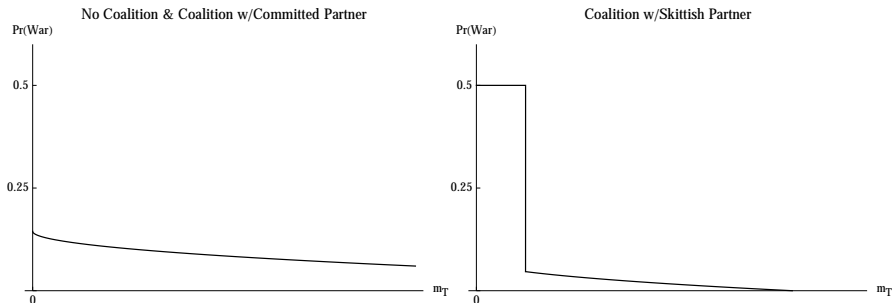


General Implications

- Partners can increase or decrease the probability of war
 - ▶ Raise $\text{Pr}(\text{War})$ vs. weak targets
 - ▶ Lower $\text{Pr}(\text{War})$ vs. strong targets
- Coalitions more war-prone against weaker targets
 - ▶ Stronger effect as partner becomes more powerful
- Acting unilaterally can signal of resolve
 - ▶ Used against powerful targets

Empirical Implications

Probability of war by partner presence and target strength



(Simulation based on equilibrium constraints and mixing probabilities)

Hypotheses

Assuming skittish partner in the coalition:

- H.1 When L acts unilaterally (bilateral crises), the probability of war decreases slightly (if at all) in target strength.
- H.2 When L acts with a partner (coalitional crises), the probability war decreases sharply in target strength.

Empirical Model

- Sample: Directed crisis-side dyads (ICB), 1 v. 2
- DV: Escalation to war
- IVs: Coalition₁, CINC_T
- Controls: CINC₁, number₁, min distance₁, % allied₁, min polity₁, UNSC support₁, USA₁, Cold War
- Errors: SEs clustered by crisis (alt: FE by crisis)

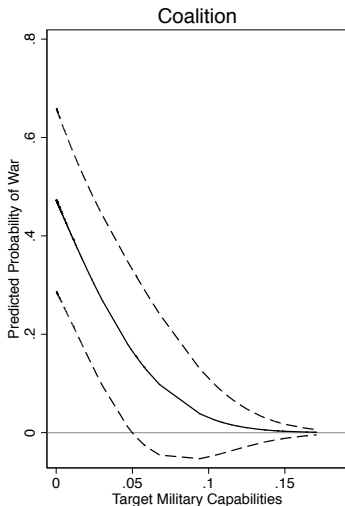
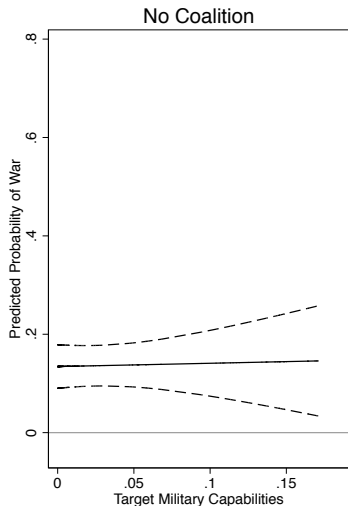
$$\Pr(\text{War} = 1) = \Phi(\alpha + \beta_1 \text{Coalition}_1 + \beta_2 \text{CINC}_T + \beta_3 (\text{Coalition}_1 \times \text{CINC}_T) + \beta \mathbf{X}_i + \varepsilon_i)$$

Empirical Results

Pr(War = 1)		
Variable	Model 1 <i>No Interaction</i>	Model 2 <i>With Interaction</i>
Coalition ₁	0.62 (0.32)*	0.83 (0.33)**
CINC _T	-0.57 (1.97)	0.40 (1.88)
Coalition ₁ × CINC _T	—	-19.03 (9.69)**
N	309	309
$\chi^2_{(d.f.)}$	22.28** ₍₁₀₎	26.96*** ₍₁₁₎

Significance levels: * : 10%, ** : 5%, and *** : 1%

Predicted Probabilities of War



Conclusion

The tradeoff: signaling resolve, showing restraint

- Coalitional politics affect the probability of war
 - ▶ Intra-coalitional politics \times target characteristics
- Microfoundations for conjectures about third parties
 - ▶ Not always “bad” . . . nor always “good”
- Logic behind coalition formation
 - ▶ “Weak” threats can tie hands against risky bluffing

Conclusion

Questions?

Payoffs: Coalitional War

$$EU_L(\text{coalitional war}) = -m_L + \left(\frac{m_L + m_P}{m_L + m_P + m_T} \right) v_L - c_L$$

$$EU_P(\text{coalitional war}) = \left(\frac{m_L + m_P}{m_L + m_P + m_T} \right) v_P - c_P m_L$$

$$EU_T(\text{coalitional war}) = \left(\frac{m_T}{m_L + m_P + m_T} \right) v_T - c_T$$

Payoffs: Bilateral War

$$EU_L(\text{bilateral war}) = -m_L + \left(\frac{m_L}{m_L + m_T} \right) v_L - c_L$$

$$EU_P(\text{bilateral war}) = \left(\frac{m_L}{m_L + m_T} \right) v_P$$

$$EU_T(\text{bilateral war}) = \left(\frac{m_T}{m_L + m_T} \right) v_T - c_T$$

Defining skittishness

Cooperate if $m_L^* = \underline{m}_L$, or

$$\left(\frac{\underline{m}_L + m_P}{\underline{m}_L + m_P + m_T} \right) v_P - c_P \underline{m}_L \geq \left(\frac{\underline{m}_L}{\underline{m}_L + m_T} \right) v_P,$$

and defect if $m_L^* = \bar{m}_L$, or

$$\left(\frac{\bar{m}_L}{\bar{m}_L + m_T} \right) v_P > \left(\frac{\bar{m}_L + m_P}{\bar{m}_L + m_P + m_T} \right) v_P - c_P \bar{m}_L.$$

True when

$$c_P^l \leq c_P < c_P^h.$$

Equilibrium probabilities of war

Where $v_L = \bar{v}_L$ w/prob ϕ , h is prob that \underline{v}_L bluffs, and r is prob that T risks war given $m_L^* = \bar{m}_L$,

- No coalition (or committed partner):
 - ▶ $\Pr(\text{war}) = \phi hr$ when $m_T < \hat{m}_T$.
 - ▶ $\Pr(\text{war}) = 0$ when $m_T \geq \hat{m}_T$.
- Coalition w/skittish partner:
 - ▶ $\Pr(\text{war}) = \phi$ when $m_T < m_T^\dagger$.
 - ▶ $\Pr(\text{war}) = \phi hr$ when $m_T^\dagger \leq m_T < \tilde{m}_T$.
 - ▶ $\Pr(\text{war}) = 0$ when $m_T \geq \tilde{m}_T$.

Full Empirical Results

Table 4.1: Probit models of crisis escalation, 1946-2000

Pr(War = 1)		
Variable	Model 1 <i>No Interaction</i>	Model 2 <i>With Interaction</i>
— <i>Theoretical variables</i> —		
Coalition ₁	0.62 (0.32)*	0.83 (0.33)**
CINC _T	-.57 (1.97)	0.40 (1.88)
Coalition ₁ × CINC _T	—	-19.03 (9.69)**
— <i>Control variables</i> —		
CINC ₁	1.91 (1.98)	2.95 (2.05)
Number ₁	0.18 (0.10)*	0.17 (0.11)
Minimum Distance ₁	0.00 (0.00)	0.00 (0.00)
Percent Allied ₁	-0.48 (0.62)	-0.57 (0.62)
Low Democracy	-0.02 (0.02)	-0.02 (0.02)
UNSC Support ₁	0.26 (0.34)	0.24 (0.33)
United States ₁	-1.10 (0.54)**	-1.12 (0.52)**
Cold War	0.43 (0.29)	0.43 (0.29)
Intercept	-1.83 (0.30)***	-1.88 (0.31)***
Model Statistics		
N	309	309
Log-likelihood	-117.62	-115.87
$\chi^2_{(d.f.)}$	22.28** ₍₁₀₎	26.96*** ₍₁₁₎

Significance levels: * : 10%, ** : 5%, and *** : 1%