GV103: Introduction to International Relations

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Commitment Problems

Introduction

- Two goals for this lecture
 - Demonstrate that expectation of shift in power can lead to war
 - Discuss how this explains why there isn't less conflict

A Model of Bargaining While Power is Shifting

- Assume D is growing stronger relative to C
 - C either sets $x_1 \in [0, 1]$ or attacks
 - If C offers terms, D can accept or reject
 - Either way, at some point in the future, second crisis emerges
 - C either sets $x_2 \in [0, 1]$ or attacks
 - If C offers terms, D can accept or reject
 - Either way, game then ends

Outcomes	ис	u_D
peace ₁ , peace ₂	$x_1 + x_2$	$1-x_1+1-x_2$
peace ₁ , war ₂	$x_1 + \underline{w}_2 - c_C$	$1-x_1+1-\underline{w}_2-c_D$
war ₁ , peace ₂	$w_1 - c_C + x_2$	$1 - w_1 - c_D + 1 - x_2$
war ₁ , war ₂	$w_1 - c_C + \overline{w}_2 - c_C$	$\left \begin{array}{cc} 1-w_1-c_D+1-\overline{w}_2-c_D \end{array} \right $

Second Stage Analysis

- D's acceptance rule nearly identical to before
 - D accepts iff $u_D(peace_2) \ge u_D(war_2)$
 - If war₁, equivalent to $x_2 \leq \overline{x}_2$
 - If peace₁, equivalent to $x_2 \leq \underline{x}_2$
 - Where $\overline{x}_2 \equiv \overline{w}_2 + c_D$ and $\underline{x}_2 \equiv \underline{w}_2 + c_D$
- At second stage, C must prefer $x_2 = w_2 + c_D$
 - In second stage, war is strictly inefficient
 - Thus, peace is certain in second stage
 - Once a shift in power occurs, it has no impact

First Stage Analysis

- D accepts iff $x_1 \leq \hat{x}_1$
 - Where $\hat{x}_1 \equiv w_1 + \overline{w}_2 \underline{w}_2 + c_D$
 - ullet $\hat{x}_1 > 1$ possible, but D cannot give up more than everything
- If $\hat{x}_1 < 1$
 - C offers terms iff $u_C(\mathsf{peace}_1|x_1=\hat{x}_1) \geq u_C(\mathsf{war}_1)$
 - $\bullet \Rightarrow \hat{x}_1 + \underline{x}_2 \geq w_1 c_C + \overline{x}_2$
 - $\bullet \Rightarrow c_C + c_D \geq 0$
- If $\hat{x}_1 \geq 1$
 - C offers terms iff $u_C(peace_1|x_1=1) \ge u_C(war_1)$
 - $\bullet \Rightarrow 1 + \underline{x}_2 \ge w_1 c_C + \overline{x}_2$
 - $\bullet \Rightarrow 1 + c_C \geq w_1 + \overline{w}_2 \underline{w}_2$

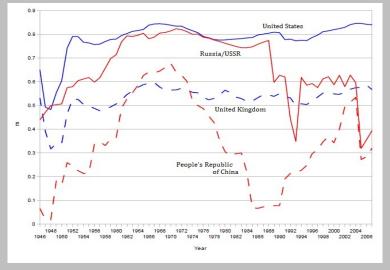
Historical Example

- Slavery as issue of contention for ACW, but not cause
 - Three-fifths compromise
 - Territorial expansion and balance of power
 - Crittenden proposal and Corwin Amendment
- Lincoln's change of strategy
 - After attack on Fort Sumter, Lincoln's cabinet met
 - Decided against invasion, choosing blockade instead
 - Two months later, Lincoln decided to invade
 - Fear of British recognition

Data

- Observations: all dyad-years from 1821 to 1913, 1946 to 2007
- y: outbreak of war w/ 2 states on opp sides
 - Taken from Correlates of War interstate war data
 - \bullet Excludes those who suffered $<\!10\%$ of fatalities on their side, unless that state fought alone for an extended period
- xs: Milcap Share, Likely_H, Likely_L
 - Milcap Share = $\frac{m_H}{m_L + m_H}$ where m_H is larger m score
 - Likely shares are based on current Milcap share, trend, war

A Look at the *m* Scores



Results

	War
Milcap Share	+
Likely _H	+*
Likely _L	_*