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Rising, Arming, and a Screening Effect of Alliances

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- ► fueled by (hidden) revisionism of the rising country (Debs and Monteiro, 2014)

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RQ: Do alliances deter preventive war?

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My argument: alliances have a *screening effect* on a protégé's arming decision

Model

Overview

- a rising state chooses to invest in its military capability
- ▶ a declining state wants to prevent it if the rising state is a revisionist, but not if it is SQ-oriented
- revisionism is private information
- an alliance with SQ-oriented patron having a choice of intervention

Then, I investigate how introducing the alliance changes the preventive war motives

Model

Implication

- a screening effect of alliances
- alliances make arming more informative by changing the value of arming
- w/o alliances, both types build their arms
- w/ alliances, only revisionist has the incentive to arm

In this screening effect, alliances can simultaneously

- deter a preventive attack
- constrain the arming by a protégé in a different way from existing studies (Benson, 2012; Fang et al., 2014)

Hypothesis

I test two implications

- ► **H1**: Defensive alliances decrease the probability of preventive attack, especially when expected power shifts are large
- ▶ **H2**: Defensive alliances make allies sensitive to internal arming costs

Empirical Strategy 1

To test H1, I

- ▶ follow Bell and Johnson (2015) and (re)calculate the expected power shifts
- regress war against a rising country on the interaction of the expected power shifts and alliances
- ▶ with some control variables¹ and fixed effects

 $^{^{1}}$ mutual democracy, foreign policy similarity, contiguity, distance, and up-to-cubic polynomial of peace years

Empirical Strategy 2

To test H2, I

- ► follow Chapman et al. (2015) to operationalize the internal arming costs as the size of opposition groups²
- regress military expenditure on the interaction of the arming costs and alliances
- ▶ with some control variables³ and fixed effects

²The robustness is checked with a state capacity index

³International/civil war, nuclear weapon, rivalry, democracy, GDP, GDP growth, population, and population growth

Result 1

The results show that

- the expected power shifts are positively associated with war
- alliances mitigate this positive correlation
- this mitigation effect becomes larger as the expected power shifts get larger

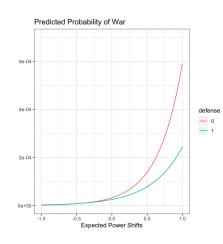


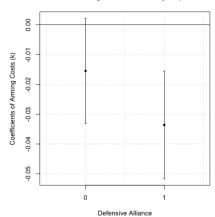
Figure: Predicted Probability of War

Result 2

The results show that

- ► The arming costs decrease the military expenditure
- ► This negative effect becomes stronger when a state has an alliance

Effects of Arming Costs on Military Expenditure



Conclusion

This paper

- investigates whether alliances are effective for preventive war
- proposes a screening effect of alliances with some empirical evidence

Thank you for listening and your generous support!

Appendix: Equilibria

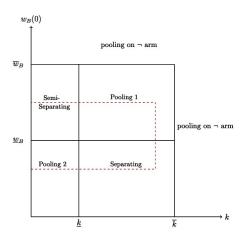


Figure: Equilibrium

Appendix: Deterrence Effect and Constraining Effect

Figure: Deterrence Effect

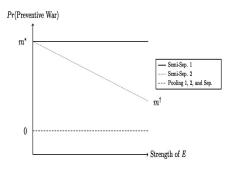
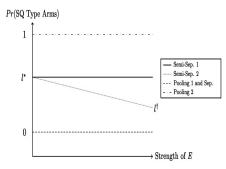
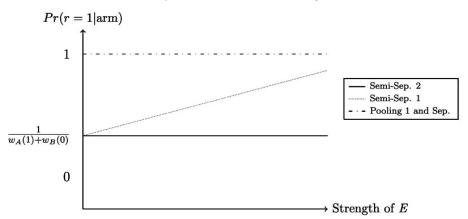


Figure: Constraining Effect



Appendix: Declining Country's Belief

Figure: B's Belief after arming



Appendix: Regression Table 1

Dependent Variable:	War						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
Expected Power Shift	10.39***	21.66***	10.92***	16.72***	3.515***	47.08***	
	(2.586)	(5.960)	(3.573)	(3.797)	(0.8440)	(18.27)	
Alliance		1.660	-0.4550	-0.4003	0.1485	2.273	
		(4.162)	(0.4944)	(1.036)	(0.6292)	(4.182)	
Alliance × Expected Power Shift			-1.751	-7.809**	-1.185	-33.75**	
			(3.768)	(3.501)	(2.013)	(16.95)	
Mutual Democracy		-3.842*		-4.169***	-1.705**	-6.581	
		(2.169)		(1.556)	(0.8537)	(5.700)	
Foreign Policy Similarity		-0.2545		-0.0245	-2.369**	-0.0470	
		(3.443)		(1.056)	(0.9905)	(3.690)	
Contingency		18.54***		4.218***	1.816***	21.25***	
		(2.805)		(1.406)	(0.4424)	(4.119)	
Distance		-100.3		-33.78	-0.6536***	-264.1	
		(745.3)		(145.1)	(0.1419)	(683.5)	
Peace Year		0.0831		-0.0101	-0.0973*	0.0929	
		(0.1091)		(0.0749)	(0.0499)	(0.0832)	
Peace Year ²		0.0027		0.0017	0.0025**	0.0031	
		(0.0047)		(0.0018)	(0.0012)	(0.0027)	
Peace Year ³		-2.52×10^{-5}		-9.82×10^{-6}	$-1.58 \times 10^{-5**}$	-2.76×10^{-5}	
		(3.48×10^{-5})		(1.07×10^{-5})	(7.84×10^{-6})	(2.07×10^{-5})	

Appendix: Regression Table 2

Dependent Variable:	ln(Mil. Exp.)						
Model:	(7)	(8)	(9)	(10)			
Variables							
Arming Costs	-0.0271	-0.0267***	-0.0268***	-0.0196**			
	(0.0453)	(0.0078)	(0.0081)	(0.0094)			
Alliance			0.0737***	0.0702***			
			(0.0175)	(0.0172)			
Alliance × Arming Cost				-0.0116			
				(0.0096)			
International War		0.2237***	0.2216***	0.2203***			
		(0.0333)	(0.0324)	(0.0324)			
Civil War		0.1308***	0.1334***	0.1335***			
		(0.0311)	(0.0315)	(0.0315)			
$ln(Mil. Exp.)_{t-1}$		0.8052***	0.8027***	0.8021***			
		(0.0178)	(0.0177)	(0.0178)			
Nuclear		0.0383	0.0472	0.0428			
		(0.0367)	(0.0336)	(0.0330)			