American Foreign Pol. Decision Making

Sudhan Chitgopkar

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1 TODO Putnam

2 Fearon

2.1 Introduction

- Three reasons war may occur
 - People are sometimes irrational and don't consider the costs of war due to this irrationality or their biases
 - Leaders may enjoy benefits of war but not pay the costs
 - People are rational and consider the risks but fight anyway (Rationalist explanation)
- Flaws with contemporary rationalist arguments are that they don't address prewar bargains
- Contemporary Rationalist reasons for war:
 - Anarchy
 - Benefits o/w costs
 - Rational preventitive war
 - Rational miscalculation due to lack of info
 - Rational miscalculation due to diagreement about relative power
- Fearon's reasons for war
 - private or misrepresented info about relative capabilities
 - relationships are not possible because at least one party has an incentive to cheat
 - Despite being able to compromise, one or more party does not want to because of their beliefs on the issue

2.2 The Puzzle

- People often see war as something nobody wants though wars can often simply be costly but worthwhile gambles
- Wars are always ex post inefficient because no matter how small, the costs of fighting still exist

2.3 Anarchy

- War occurs because there is nothing to prevent it
- Does not explain why wars still occur due to their inefficiency, therefore does not explain war completely
- Anarchy may lead to arms races and insecurity, but little war outside or preemptive war

2.4 Preventive War

- If a declining power suspects that it may be attacked in the future by a rising power, it will find a preventive war rational
- Theory does not consider diplomacy and timeframe
- Why should the declining power fear an attack if it's inefficient, even for the rising power

2.5 Positive Expected Utility

- Argues that war is rational when both sides have a positive expected utility from it
- While often presented, this argument doesn't explain specific condition in which both parties fighting a war have positive expected utility

2.6 Utility and Rationality

- Positive expected utility alone is not enough to provide a rationalist explanatino for war
- Indivisibility of factors of war can also be a rational explanation of war

2.7 War and Private information

- War is often the product of rational miscalculation
- Leaders overestimate their chance of military victory
- State lack information about other side's willingness to fight
- Truly rational agents will make the same prediction about the outcome of an uncertain event when given the same set of facts

- This does not happen when miscalculation occurs, which leads to war
- There also exist incentives to misrepresent in bargaining
- Combination of private info about relative power or will to fight and strategic incentive to misrepresent positions in baragaining constitute a rational explanation of war

2.8 War & Commitment Problems

- With anarchy, states become suspicious of one another and build weapons and engage in attacks
- Anarchy matters when it seems as if a states preferences and opportunities for action imply that one or both sides in a dispute have incentives to renege on peaceful bargains which would be mutually preferable to war
- Preemptive war is one such case where if one wants to go to war, doing so stealthily would be the most save. While both parties would prefer to live in peace, they are constantly afraid of doing so because of the anarchic state of internaitonal affairs
 - Seems to work similar to the prisoner's dilemm
- The same principle can be applied to preventive war, lack of trust is not the driving factor behind war in these instances. Rather, circumstances that give one party an incentive to renege are

2.9 Conclusion

- Because fighting is costly and risky, rational actors should prefer negotiations to war
- Rational actors may be unable to agree on these negotiations because
 - private information about resolve and capability, and the incentives that exist to misrepresent these
 - inability to commit to hold ip a deal
- Not arguing irrelevance for empirical studies concluding that war is based on irrationality

$3 \quad 01.22.21$

3.1 Calculating Costs of War

3.1.1 Constants

• Fight occurs over \$100

• Cost of war: \$20

• P(Winning): 50%

3.1.2 Expected Value

• (Gains Winning) + (Gains Fighting) - (Cost of War)

•
$$(0.5 \times 100) + (0)$$
 - $(1 \times 20) = 50$ - $20 = 30

• Because each side could negotiate in order to get an expected value of 31 <, it is not a rational deciison to go to war

3.1.3 Miscalculation

- When both sides overestimate the probability of winning, their expected value goes up, thereby making their minimum threshold for negotiation too high for the other side.
- Consider miscalculation wherein both sides believe they have an 80% probability of winning:

$$- \text{ EV}_{\text{war}} = (0.8 \times 100) + (0) - (1 \times 20) = 80 - 20 = 60.$$

- Both sides therefore want an expected value of > 60, which is impossible given the limited value of the thing being fought over

$4 \quad 01.20.21$

4.1 Rational Decision-Making

- Rational decision-making defines how we make decisions
- A person's or institutions goal is not relevant, the process of pursuing that goal is the factor driving decision-making
- This allows us to generalize decision-making significantly more

- Critical to consider the probabilistic nature of benefits and harms when considering rational decision-making
- Expected Value = "weighted value" for all costs and benefits
 - Same thing as "average payoff"

4.2 Incentive Structures

- Incentive structures are the expected values for each of the strategies considered
- Incentive structures impose a certain course of action upon us, given that we are rational actors

5 Expected Profit Khan Academy

- Expected value can be calculated as the sum of all the outcome probabilities multiplied by their corresponding profits.
- Considering all outcome probabilities should yield a total probability sum of 1 (100%), with profits being positive (gains) or negative (losses)

$6 \quad 01.15.21$

• Brain has a complex set of structures that work together to do both really important, and fundamentally flawed actions

6.1 Brain Stem

- The reptilian brain
- Really just an extensino of the spinal cord
- Controls automatic actions, no effect on decision-making

6.2 Middle Brain (Limbic System)

- Body's monitoring system to identify important elements of the environment
- Discriminates things of importantance constantly and ambiently

6.3 Brain Cortex

- Controls higher-level thinking
- Moral decision-making, learning, conscious awareness

6.4 Hierarchy of the brain

- Information goes from the brain stem, to the limbic system, to the brain cortex
- Critically, the limbic system was never designed to collect all the information around you that incomplete information is used for decision-making
- Understanding the interplay and potential biases of the limbic system can help us understand decision-making and prevent bad decision making
- Fear and the triggering of fear prevents higher-level decision making and can prevent the intake of new information
- Sources of information can also have a significant effect on the processing of that information can be seen through in-group/out-group bias

6.5 Rational Decision-Making

- 1. Pick a goal
- 2. Evaluate all strategies
 - Analyze costs
 - Analyze benefits
- 3. Select strategy with best cost/benefit ratio
- 4. Bias often occurs at stage 2 because of filtration of information through the limbic system