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Putting negotiation in context: The US vs Japan



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INTRODUCTION

Question: To what extent are cultural differences in bargaining behavior context dependent?

- Current literature uses the ultimatum game to compare the countries
 - Roth et al. (1991), Oosterbeek et al. (2004), Lin et al. (2020)
 - UG: context-free game, unlike real-life negotiations

Contribution:

- Cross-cultural comparison of bargaining behavior by **taking context into** account
- Comparing different ways of eliciting bargaining behavior
- Testing the **power of ultimatum game** in explaining the individual and cultural differences in bargaining behavior

<u>Hypothesis:</u> Cultural differences in bargaining behavior are context-dependent.

- The cultural differences in negotiation behavior vary between scenarios.
 - Japanese might negotiate more than Americans in some contexts.

EXPERIMENT

US

- 203 participants from Prolific
- **50.74**% male, **40** mean age
- 44.83% single
- 34.48% without an ug degree
- **53.69**% employed
- 40.61% lower-middle class

<u>Japan</u>

- 213 participants from Lancers
- **50.23**% male, **43** mean age
- 48.83% single
- 36.15% without an ug degree
- **48.82**% employed
- 41.85% lower-middle class

Study:

- Mean time: 13 min (US) & 17 min (Japan)
- Fixed payment: £1.5 (US) & $$\pm250 (Japan)$

ASPREDICTED aspredicted.org/wgfd-g58p.pdf

Stage 1: General Negotiation Questions

- Tendency to negotiate:
 - "Whenever there is a chance, I try to negotiate to obtain a better deal."
- Aggressiveness in negotiations:
 - "When I am in a negotiation situation, I tend to make bold offers to try to move things in my favor."

Stage 2: Game Play

- The standard **ultimatum game** with the pie of \$10 to be shared
 - Making **two decisions**: one as the proposer & one as the responder

Stage 3: Negotiation Scenarios

- 13 different real-life negotiation scenarios with a given price/value range
 - Write down a proposal for the other party (in 7 scenarios)
 - "Accept an offer" (at the average of the range) or "Try to negotiate"
 - "How **frequent** such a negotiation situation is in your environment?"

Scenario	Scenario Summaries
job (low)	apply for a job, \$40,000 - \$70,000 per year
job (high)	apply for a job, \$150,000 - \$250,000 per year
house	buy a house, \$300,000 - \$450,000
on line	buy an item from an online second hand market, \$60 - \$120
flea	buy a jacket from a flea market, \$30 - \$60
lessons	private lessons (to get), \$40 - \$80 per hour
car (used)	buy a used car, \$27,000 - \$41,000
car (new)	buy a brand-new car, \$30,000 - \$46,000
bulk	buy a large quantity of a particular product, \$800 - \$1100
fridge	buy a fridge from a big-box store, \$500 - \$1,000
vegetable	buy vegetables from a local vegetable shop in your neighborhood, \$10 - \$20 in total
fine	speeding fine, \$100 - \$500
medical	undergo a particular medical procedure, \$10,000 - \$30,000

RESULTS

General Questions:

No difference between countries.

The Ultimatum Game:

- The minimum offer to accept is lower in Japan than in the US.
 - In line with the literature.

Mean decisions in general questions and game play (0-10)

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Variable	US	JPN	P-Value	
tendency	6.030	6.080	0.9162	
aggressiveness	4.764	4.615	0.4379	
proposer	4.941	4.850	0.1338	
responder	4.207	3.488	0.0001	
Notes: P-values are	from the two-si	ded Mann-Wh	itney U tests.	

Responses to the Negotiation Questions:

- Significant differences in willingness to negotiate in 6 scenarios.
 - Japanese negotiated more than Americans in 3 scenarios.
 - All scenarios (except those 3) were more frequent in the US.
 - Frequency explains the negotiation decisions (also in FE regressions).

Mean of the negotiation decisions in the scenarios (0-1)

Scenario	US	JPN	P-Value	
job (low)	0.660	0.343	< 0.0001	
job (high)	0.350	0.178	0.0009	
house	0.773	0.836	1.0000	
on line	0.764	0.746	1.0000	
flea	0.675	0.732	1.0000	
lessons	0.276	0.347	1.0000	
$car\ (used)$	0.887	0.883	1.0000	
car (new)	0.749	0.751	1.0000	
bulk	0.424	0.676	< 0.0001	
fridge	0.246	0.667	< 0.0001	
vegetable	0.099	0.249	0.0007	
fine	0.202	0.169	1.0000	
medical	0.414	0.207	< 0.0001	
Notes: P-values are from the Holm-adjusted two-				

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Mean of the frequencies of the scenarios (0-10)

Scenario	US	JPN	P-Value	
job (low)	7.266	3.939	< 0.0001	
job (high)	7.133	3.638	< 0.0001	
house	8.128	6.225	< 0.0001	
on line	7.384	6.211	0.0004	
flea	7.562	6.563	0.0013	
lessons	4.512	3.352	< 0.0001	
car (used)	8.483	6.549	< 0.0001	
car (new)	7.522	6.023	< 0.0001	
bulk	4.182	5.695	< 0.0001	
fridge	3.158	6.136	< 0.0001	
vegetable	3.700	3.770	1.0000	
fine	2.246	1.469	0.0215	
medical	3.039	1.906	0.0027	
Notes: P-values	s are from t	the Holm-a	djusted two-	

<u>Notes:</u> P-values are from the Holm-adjusted two sided Mann-Whitney U tests.

- Significant differences in **boldness of proposals** in 2 scenarios.
 - Japanese made bolder offers in the context of "buying a house".

Mean of the proposal boldness index (0-1)

Scenario	US	JPN	P-Value	
job~(low)	0.718	0.616	< 0.0001	
job (high)	0.640	0.598	0.2751	
house	0.828	0.886	0.0366	
on line	0.828	0.889	0.7455	
flea	0.893	0.878	1.0000	
lessons	0.771	0.813	0.3300	
car (used)	0.900	0.875	1.0000	
Notes: P-values are from the Holm-adjusted two-sided				







- Game behaviors do not correlate with the responses to the scenarios.
- The general tendency to negotiate highly correlated with the willingness to negotiate in scenarios.

Mann-Whitney U tests.

• The level of aggressiveness in negotiations significantly correlated with the boldness of proposals.

Pearson's correlations between mean decisions & measures of bargaining behavior

	Mean boldness		Mean negotiation decision	
	US	JPN	US	JPN
proposer	-0.076	-0.034		
aggressiveness	0.171**	0.256***		
responder			0.103	-0.077
tendency			0.338***	0.521***
Notes: * p < 0.10, ** p < 0.05, *** p < 0.01				

CONCLUSION

- Americans do not necessarily negotiate more than Japanese.
- The ultimatum game **does not do well** at capturing negotiation behavior across contexts and when comparing countries (US vs Japan).
- Simple questionnaire-type items do much better.
- Our findings highlight the necessity of **considering context** to fully understand cross-cultural differences in bargaining behavior.
- Future studies needed to explore other negotiations contexts with real incentives.

