



- the decision-making process? - That is, does uncertainty about the relationship between proxy and the actual value matter?
- through a noisy proxy change its decision value?

Methods Blackjack School We used a card game akin to blackjack to study decision-making by proxy			
		Screen Shot of Non-busted Hand	The Task
		Game & C wed 1:51 AM Blackjack School Hand 1 Display	 Subjects were forced to hit on one of two hands
Your S: \$0.90 Solution Cash/Trial: \$0.24 Time: 00:18	 Busted hands yielded x points while non-busted hands yielded y points 		
win: ç41 bust: ç2 Hit on Hand 1 Hit on Hand 1	Proxy vs. Value		
WINNER! ç41 -> \$0.16 Earned: ç14 (WINNER! 036 -> \$0.36) Cash: \$0.15 Hit on Hand 2 Hand 2	 Both hands were being played "online" in different countries 		
9	 Point values for each hand represented that country's foreign currency Foreign currency was translated into U.S. dollars after each trial/set of hands 		
	The Manipulation		
	 Different currencies had different exchange rates and levels of stability 		
Screen Shot of Busted Hand	 \$ = (m + Δm)/100 - \$ - amount earned on a trial in U.S. dollars - m - amount earned in foreign currency - Δ is on interval [-noise, noise] 		
Image: Solution of the second seco	 Subjects earnings per condition: <i>total</i> = \$/trial * minutesPlayed 		
win: ç36 bust: ç11 Hit on Hand 1 Hand 1 BUSTED! ç11 -> \$0.17 Earned: ç22	Hands = Prospects		
(BUSTED) 022 -> \$0.22) Hit on Hand 2 Hand 2 Hand 2 Earned: •22 Cash: \$0.08	 Each set of hands was a prospect pair: -(p₁, x1; q1, y1); (p2, x2; q2, y2) 		
	 P and q were determined by the probability a hand would bust 		
win: \$26 bust: \$22 End Session	 X and y were each hand's potential earnings in the foreign currency (points) 		

Decision-making with Monetary Value Uncertainty Paul R. Schrater, Eric M. Sodomka, and Charles E. Sloane - University of Minnesota







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Decisions predicted using Prospect theory on money

shape of the value function for noisy proxy

Fox, C.R., and Weber, M. (2002). Ambiguity aversion, comparative ignorance, and decision context. Organizational Behavior or Unknown." Management Science 42, 1131-1150.