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# Investigating The Leddo, Jayanti and Duan (2019) Revised Prospect Theory Value Function in Argentina

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#### ABSTRACT

Prospect Theory (Kahneman and Tversky, 1979) is a highly influential theory that predicts decision making when people are confronted with choices involving gains or losses with different degrees of uncertainty. Prospect Theory argues that people are generally risk averse when it comes to seeking gains and risk seeking when it comes to avoiding losses. Leddo et al. (2019) noted that the original formulation of Prospect Theory did not take into account people's goals. They argued that people would be willing to take risks to achieve goals but become more risk averse once those goals are achieved, and they would become risk averse when confronted with losses in order to avoid a highly negative outcome but become more risk seeking to negate the negative outcome once that outcome occurred. Leddo et al.'s research confirmed this hypothesis, leading to a revision of Prospect Theory's value function. The present research investigates whether the same revised value function can predict decisions made by people in other cultures. Accordingly, the present paper investigates whether the Leddo et al. (2019) findings will hold up with people from Argentina, a high-income country with a mixed economic system. In the present study 82 Argentine residents from the ages 15-75 were given scenarios involving sports decisions involving gains or losses above or below defined aspiration and avoidance levels (four scenarios in total with an average of 17 participants per scenario). Results showed that participants demonstrated the same frequency of risk-seeking behaviors for decisions involving losses than those involving gains, inconsistent with the original Kahneman and Tversky (1979) framework and consistent with the revised Leddo et al. (2019) framework. Additionally, participants showed more risk seeking behaviors for decisions involving outcomes below the avoidance and aspiration levels than for decisions involving outcomes above the avoidance and aspiration levels, consistent with the revised Leddo et al. (2019) framework. This held up individually for both gains and losses.

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#### INTRODUCTION

One of the most prominent and influential theories of decision making and choice behavior is Kahneman and Tversky's Prospect Theory (1979), which evolved from attempts to understand the place of expectation-based theories in describing individual decision making. Prospect Theory proposes a value function that relates actual outcome value to subjective utility and a decision weighting function which translates the stated probability of an outcome to a subjective weight that the stated probability carries in assessing the attractiveness of that outcome.

The Kahneman and Tversky value function has two distinct properties: a) it is concave for gains and convex for losses so that, for example, the difference in subjective utility between 0 and 100 dollars is not the same as the difference in subjective utility between 100 and 200 dollars, and; b) the function for losses is steeper than the function for gains so that a given amount of loss is more aversive than the same amount of gain is attractive. Figure 1 shows Prospect Theory's value function.



Since its inception, there have been many tests of Prospect Theory in a variety of contexts such as business and political decision making (Kahneman & Tversky, 2000; Jones 2001; Gilovich, Triffen& Kahneman, 2002; Weyland 2006). Many studies have cited support for some of Prospect Theory's main claims. However, results have not always been consistent. For example, Weyland (1996) found that in Latin American countries, politicians facing economic hardships

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would sometimes enact bold, risky policies and others would enact conservative ones. Similarly, Alghalith et al. (2012) found that investors tended to be risk seeking regardless of whether they were gaining or losing money. Riabacke (2006) examined several lumber companies. These were first grouped into established companies and new and upcoming companies.

The companies were asked to choose between a new risky technology not used yet but promised to be more efficient vs the current/old technology. The established company chose the old one while the new company chose the newer technology. Thus, when confronted with the same decision, established companies were risk averse (which generally seems to be the case), whereas the newer companies were risk seeking (which generally seems to be the case).

#### Leddo et al (2019) Revision of Prospect Theory

Kahneman and Tversky have done an excellent job in explaining cases where people would be risk averse versus risk seeking and have shown how framing choices can lead to one tendency or the other. However, Prospect Theory fails to account for the real-world decisions described above. The reason for this may be reflected in the critique of Prospect Theory offered by Nwogugu (2005) that Prospect Theory was created based on hypothetical decisions that do not reflect the types of real-world decisions involving risk and reward that people typically face. In the real world, gains and losses may not be uniform in how they appear to the decision maker.

As a result, Leddo et al. (2019) noted that real-world decisions often occur in the context of goals, represented in terms of outcomes a decision maker is trying to achieve or ones s/he is trying to avoid. Accordingly, Leddo et al. (2019) created a revised value function that included an aspiration level that represented an outcome the decision maker is trying to achieve and an avoidance level that represented an outcome that the decision maker is trying to avoid. The inclusion of aspiration and avoidance levels in the value function leads to predictions of decision making that run counter to those of classical Prospect Theory.

For example, Prospect Theory's value function argues that each successive dollar a person receives is worth less than the previous dollar. However, suppose a person has a goal of becoming a millionaire. Prospect Theory states that the 10<sup>th</sup> dollar the person gets along the way towards achieving that goal will be subjectively worth more than the 1 millionth dollar the person gets. Common sense suggests the reverse is true. On the other hand, once the million-dollar goal is achieved, it is reasonable to argue that each successive dollar earned has decreasing subjective value.

Conversely, suppose a person owns a business that will fail if it loses 1 million dollars. Prospect Theory states that each successive dollar lost has decreasing subjective value such that the first dollar lost is subjectively more aversive than losing the one millionth dollar that causes the

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business to fail. Again, this goes against common sense. As with the argument in the previous paragraph, it is reasonable to also argue that once the one-million-dollar loss occurs and the business is sure to fail, any losses greater than that have decreasing aversiveness.

Accordingly, unlike the traditional Prospect Theory value function, which is concave for gains and convex for losses, the Leddo et al. (2019) revised Prospect Theory value function is convex for gains up to the aspiration level and concave thereafter and concave for losses up to the avoidance level and convex thereafter. The Leddo et al. (2019) revised value function is shown in Figure 2.



Figure 2: Revised Prospect Theory value function

The reformulated value function is useful in explaining the empirical results described earlier that appear at odds with the original version of Prospect Theory. For example, investors presumably have a very high aspiration level, so it makes sense for them to be risky when they are gaining money at levels below whatever aspiration level they set. For the lumber companies, new companies have not yet established themselves. Therefore, we would expect new companies to be below their aspiration levels and be willing to engage in risky behaviors. On the other hand, an "established" company has already achieved the goal of becoming successful (its aspiration level), so we would expect to see it to be more risk averse in decision making.

The revised value function is useful in explaining apparent discrepancies in economic policies. For example, when countries show modest economic declines, they often enact austerity

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programs (e.g., Greece in recent years or the sequester in the United States) that are marked by reduced government spending and attempts to reduce debt. On the other hand, severe economic downturns (e.g., the Great Depression in the 1930's or the recessions in 2008 and 2020 in the United States) are often marked by bold economic initiatives like high government spending, new programs (e.g., the New Deal during the Great Depression), and incurring large amounts of debt. This apparent contradiction can be explained using the avoidance level. As long as the economy has not reached disastrous conditions (the avoidance level), governments are risk averse, but once those levels are reached, they become risk seeking.

In addition to the Leddo et al. (2019) study, further evidence for the reformulated value function has been shown in Leddo and Shukla (2020) that found that not only do people's decisions that they make for themselves conform to the predictions of the revised value function, but so, too, do recommendations for decisions they make on behalf of their friends. In the Leddo and Shukla (2020) study, high school students were presented with scenarios in which they or their friends were applying to college and had to make decisions on whether to take the SAT or ACT test or recommend that their friends take the SAT or ACT. Scenarios varied to reflect conditions below an aspiration level (their of their friends' test scores were below the required level for the college they wanted and they were choosing between a sure gain that would still place the score below the aspiration level and an uncertain gain that would either place the score at the aspiration level or the current level), were above an aspiration level (their or their friends' test scores were at the aspiration level and they were choosing scenarios of a certain gain of 50 points or an uncertain gain of either 0 or a 100 points), were below the avoidance level (the student is choosing for him/herself or a friend between a test that has a certain chance of producing a lower test score but one still higher than the level that would cause the student or friend to be rejected by colleges being applied to and a test that will either produce the same score that the student or friend has now or one that is at the level that would cause the student or friend to be rejected by colleges being applied to), were above the avoidance level (the student or a friend has a test score that will result in rejection by the college being applied to and the student is choosing between a test that has a certain chance of producing a test score that is 50 points lower and a test that will either produce the same score as the student or friend has now or one that is 100 points lower). In this study, students chose the risky option for themselves and their friends when their scores were below the aspiration levels, chose the non-risky option for themselves and their friends when their scores are already at the aspiration levels, chose the non-risky option for themselves and their friends when their scores were below the avoidance levels and the risky option for themselves or their friends when their scores were above the avoidance levels.

The revised Prospect Theory value function was even shown to hold up when investigated under the framing of decisions. In the classical version of Prospect Theory, Tversky and Kahneman

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(1981) found that the same decision could produce either risk seeking or risk aversion behavior in people depending on whether that decision was framed in terms of losses or gains. Leddo and Elkas (2021) mirrored the original Tversky and Kahneman (1981) framing study, but with inserting aspiration and avoidance levels in the gain and loss versions of the decision scenarios. When these aspiration and avoidance levels were included, people's decisions conformed to the predictions of the revised Leddo et al. (2019) value function rather than the original Kahneman and Tversky (1979) value function.

While Leddo and his colleagues have amassed considerable evidence for a revised value function when studying American decision makers, the question remains whether this revised value function would hold up when tested in other countries. In fact, it is often the case that documented social science-related findings fail to hold up in tests in other cultures (Henrich, Heine, and Norenzayan, 2010). A landmark study investigated how well the traditional probability weighting function of Prospect Theory (something we did not investigate in our revision of Prospect Theory's value function) held up in 30 different countries (Haridon and These researchers found that, generally speaking, people in countries Vieider. 2019). investigated had probability weighting functions that were similar to that in Prospect Theory in which smaller probabilities were overweighted and higher probabilities were underweighted. Nicaraguan people showed a similar pattern except that lower probabilities were overweight even more and higher probabilities were underweighted about the same as those stated in the original Prospect Theory probability weighting function. While Nicaraguan people had the most pronounced effect in this departure from the standard probability weighting function, this general pattern was true for other low-income countries included in the study. This pattern suggested that people in low-income countries had a greater sense of optimism and higher risk tolerance than those in higher income countries. Further, Boucher and Leddo (2022) found that when it came to the value function, Nicaraguan students showed a fairly consistent pattern of risk tolerance regardless of whether the prospects they were faced with involved gains or losses or were above or below an aspiration or avoidance level.

Tun et al. (2022) found that Japanese people behaved similarly to Americans in their decision making. Japanese people were risk seeking when outcomes were below the aspiration and avoidance levels and risk averse when outcomes were above them. On the other hand, Gu and Leddo (2022) found that Chinese students were risk averse when it came to decisions involving gains, regardless of whether the outcomes were above or below the aspiration level. However, when decisions involved losses, no Chinese student took the risky option when losses had not yet reached the avoidance level and almost all Chinese students took the risky option when losses surpassed the avoidance level. Therefore, Chinese students behaved according to the original Prospect Theory's (1979) value function when decisions involved gains—they were highly risk

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averse—and behaved according to the revised Prospect Theory's (2019) value function when decisions involved losses.

The purpose of the present study is to extend the original Leddo, Jayanti and Duan (2019), Boucher and Leddo (2022), Tun et al. (2022), and Gu and Leddo (2022) findings regarding the revised Prospect Theory Value function to yet another country: Argentina. Argentina presents an interesting case as it, like Nicaragua, is both a Latin American country and has a mixed economy (in which businesses can be owned either by individuals or the state), but unlike Nicaragua, it is a high-income economy.

Additionally, it was found that Argentine residents tended to be more risk averse and lean towards safety. In the study Risk, Safety and Culture in Brazil and Argentina: The Case of TransInc Corporation, employee work, cultural values of three different cities were evaluated to see how they differ and how those differences influenced the way people perceived risk and danger. It was found that in Buenos Aires, the capital city of Argentina, workers perceive a much higher likelihood of accidents on the job. Therefore, they tend to be more cautious and behave in a safe and intentional manner. Furthermore, when compared to other more capitalist countries like France and the US, Argentina has a more "collective" and paternalistic management style that places more value on safety versus productivity (Perez-Floriano et al., 2007), reinforcing the idea that Argentinians tend to avoid risks as much as possible. However, although this study among others all point in the direction that Argentina is risk-averse, some studies have offered other insights. In the thesis, The Domestic and International Dimensions of Risk: Prospect Theory and Argentina, the decision making of policy makers in Argentina was evaluated and it was found that, during times of distress in Argentina like episodes of high inflation, Argentina policy makers were found to seek outside help and engage in foreign policy that is risky domestically. Due to an almost constant state of instability, risk taking is chosen often. In contrast, when Argentina is in a good, more stable period, policy makers are more risk-averse and inclined to avoid introducing policies and decision making that is outside the norm (Mclure, 2004).

### METHOD

#### **Participants**

There were 82 Argentinian residents used in this study. They were not paid for their participation. The participants were between the ages 15-75. There were high school students with ages ranging from 14-18 years old, adults with ages ranging from 40-50, and expats ages ranging from 50-75.

#### Materials Used

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There were a total of four scenarios used. The scenarios related to sports decisions involving gains or losses. Each scenario involved a choice between a sure outcome or one that has two 50-50 outcomes that combined to produce the same expected value as the sure outcome. The four scenarios are shown below.

#### Scenario 1

You are the coach of an American football team. You want to win the game you are playing, which means you need to score more points than the other team has. If you win the game, you win the championship of the league. The other team has 29 points and you have 28 points, but you just scored a touchdown and you can go for the extra points. Time has expired, so this will be the last play of the game. You have two options. You can try to kick for the extra points. If you do that, you will get 1 extra point, but your kicker has been perfect this season, so you have a 100% chance of getting that extra point and bring the score to 29 points each and have a tie game, which means you will not win the championship. You can also try to run for the extra points. If you do that and succeed, you will get 2 extra points and bring your score to 30 points and win the game and the championship. If you do not succeed, you will get 0 extra points and you will still have 28 points and a 50% chance of getting 0 extra points. Do you choose to kick for 1 point with 100% chance of getting it or run for the points with a 50% chance of getting 2 extra points and a 50% chance of getting 2 extra points.

#### Scenario 2

You are the coach of an American football team. You want to win the game you are playing, which means you need to score more points than the other team has. If you win the game, you win the championship of the league. The other team has 29 points and you have 30 points, and you just scored a touchdown and you can go for the extra points. Time has expired, so this will be the last play of the game. You have already won the game and the championship no matter what happens with the extra points. You have two options. You can try to kick for the extra points. If you do that, you will get 1 extra point, but your kicker has been perfect this season, so you have a 100% chance of getting that extra point and bring your score to 31 points and still win the game and the championship. You can also try to run for the extra points. If you do that and succeed, you will get 2 extra points and bring your score to 32 points and still win the game and the championship. If you do not succeed, you will get 0 extra points and you will still have 30 points and still win the game and the championship. You have a 50% chance of getting the 2 extra points. Do you choose to kick for 1 point with 100% chance of getting it or run for the points with a 50% chance of getting 0 extra points and a 50% chance of getting 0 extra points.

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#### Scenario 3

You are the coach of an American football team. You want to avoid losing the game you are playing, because if you lose, you will be eliminated from the tournament. Your team has 29 points and the other team has 28 points, but the other team has just scored a touchdown and they can go for the extra points. Time has expired, so this will be the last play of the game. You have two options. You have two strategies for playing defense. If you go with Defense A, the other team will score 1 point with 100% certainty and wind up with 29 points. If this happens the game will end in a tie and your team will not be eliminated from the tournament. If you go with Defense B, there's a 50% chance the other team will score 2 points and a 50% chance they will score 0 points. If the other team scores 2 points, they will wind up with 30 points and you will lose the game and be eliminated from the tournament. If the other team scores 0 points, they will wind up with 28 points and you will not lose the game and will not be eliminated from the tournament. Do you choose Defense A or Defense B?

#### Scenario 4

You are the coach of an American football team. You want to avoid losing the game you are playing, because if you lose, you will be eliminated from the tournament. Your team has 29 points and the other team has 30 points, and the other team has just scored a touchdown and they can go for the extra points. Time has expired, so this will be the last play of the game. Because the other team has 30 points already, you have lost the game and will be eliminated from the tournament no matter what happens. You have two options. You have two strategies for playing defense. If you go with Defense A, the other team will score 1 point with 100% certainty and wind up with 31 points. If this happens, you will still lose the game and be eliminated from the tournament. If you go with Defense B, there's a 50% chance the other team will score 2 points and a 50% chance they will score 0 points. If the other team scores 2 points, they will wind up with 32 points and you will still lose the game and be eliminated. If the other team scores 0 points, they will wind up with 30 points and you will still lose the game and you will still lose the game and be eliminated from the tournament. If the other team scores 0 points, they will wind up with 30 points and you will still lose the game and be eliminated from the tournament. Do you choose Defense A or Defense B?

#### Procedure

All four scenarios were administered electronically. Each participant was given only one scenario, so that the participant's decision on the scenario would not be affected by answers given to other scenarios. The participants were simply directed to state which option they would choose. 29 participants were assigned to Scenario 1, 18 participants were assigned to Scenario 2, 18 participants were assigned to Scenario 3, and 17 participants were assigned to Scenario 4.

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#### RESULTS

In the gain scenarios, participants had to choose between going after two options, A and B. In both scenarios, taking option A had the guaranteed result and option B had the 50-50 outcome. Therefore, choosing option B could be seen as the risky option. Similarly, in the loss scenarios, to prevent further company losses, participants had to choose between canceling two products,

Table 1 presents the percentage of participants who selected the risky alternative for each of the four scenarios. The first row shows the results of the present study (for the Argentinian participants). The remaining rows show, for comparison purposes, the results from other studies we have conducted in other countries.

Nationality	Below-aspiration level gain	Above-aspiration level gain	Above-avoidance level loss	Below-avoidance level loss
Argentinian	69	27.8	38.9	70.6
Pakistani	30	10	25	60
Japanese	81	58.76	47.42	79.38
Chinese	21.70	15	0	94.40
Nicaraguan	72.73	54.55	63.64	63.64
American	90	50	30	90

Table 1:	Percent of participants who selected the risky outcome, broke	n down by type of
	scenario	

The general pattern of results fits the predictions of the revised Leddo et al. (2019) Prospect Theory in that Participants tended to be more risk-seeking for gains below the aspiration level than for those above and tended to be less risk-seeking for losses above the avoidance level than for those below. One of the key differences between the original Kahneman and Tversky (1979) and the revised Leddo et al. (2019) Prospect Theory value functions is that the former predicts a main effect for gain vs loss (people are more risk seeking when faced with decisions involving losses than they are when faced with decisions involving gains) while the latter predicts no such

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main effect. In the present study, the overall percentage of participants selecting the risky option is 53.2% when the decisions involve gains, and 54.3% when the decisions involve losses. These two percentages are statistically equal, which means they are inconsistent with the original Prospect Theory and This difference is consistent with the predictions made by the original Prospect Theory and consistent with the revised Leddo et al. (2019) Prospect Theory.

A key difference between the revised Prospect Theory value function and the original one is the notion of goals, specifically, the aspiration level and the avoidance level. The revised Prospect Theory value function predicts a main effect for risk seeking behaviors when outcomes are above vs below goal (aspiration and avoidance) levels. Specifically, it is predicted that people are more risk seeking when outcomes are below goal levels than when outcomes are above goal levels. This was borne out in the present data where 69.6% of participants chose the risky option when outcomes were below goal levels, while 33.3% of participants chose the risky option when outcomes were above goal levels. This difference was statistically significant, z = 3.27, p =.0005.

The revised Prospect Theory value function also predicts differences around the goal levels. Specifically, for gains, people are predicted to be more risk seeking for options when the current state is below the aspiration level than when it is at or above the aspiration level. In the present study, participants chose the risky option 69% of the time when the current state was below the aspiration level and 27.8% of the time when the current state was at the aspiration level, directionally consistent with the predictions of the revised Prospect Theory value function. This difference only approached statistical significance, however, z = 2.75, p < .01.

Similarly, the revised Prospect Theory value function predicts that people are more risk seeking when faced with prospective losses below the avoidance level than they are when faced with prospective losses above the avoidance level. In the present study, participants chose the risky option 70.6% of the time when the potential outcomes were below the avoidance level and 38.9% of the time when the potential outcomes were above the avoidance level, consistent with the predictions of the revised Prospect Theory value function. This difference was statistically significant, z = 2.96, p < .005.

### DISCUSSION

The data from the present study showed that the choices made by Argentinian people conformed to the predictions made by the revised Prospect Theory value function. Specifically, Argentinian participants showed no main effect in risk-seeking behaviors for gains versus losses. Participants showed a difference in risk-seeking behaviors when outcomes were above or below goal states, regardless of whether the prospects involved gains or losses. This result is consistent with

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predictions made by the revised Leddo et al. (2019) Prospect Theory value function and is consistent with our previous results with American participants (Leddo et al., 2019; Leddo and Shukla, 2020; Leddo and Elkas, 2022).

Related to this is the finding that for gains, the difference in risk seeking behaviors for decisions above and below the aspiration level was statistically significant, when more participants chose risky options when the current state was below the aspiration level than when it was above. This is consistent with the revised Leddo et al. (2019) value function. Similarly, participants chose risky options when the current state was below the avoidance level than when it was above it, also consistent with the revised Leddo et al. (2019) value function.

The present results are noteworthy, both in the context of the Henrich, Heine and Norenzayan (2010) findings that social science findings established in one country often do not hold up in other countries, and our previous results in China (Gu and Leddo, 2022) and Nicaragua (Boucher and Leddo, 2022) that differed from those of US decision makers, while those in Japan (Tun et al., 2022) and in the present study were generally consistent. The key factor that seems to affect whether people in different countries conform to the predictions of the revised Prospect Theory framework is if they live in a high-income country. According to the World Bank, the United States, Japan and Argentina are considered high income countries, but the rest are not. Of the people who do not live in high-income countries, Chinese and Pakistani people seem to be generally risk averse, except when confronted with losses below the avoidance level. Nicaraguans may be the true outliers here, since their choices seem to be largely consistent regardless of goals or whether facing gains or losses.

Therefore, there may not be a universal framework such as Prospect Theory (even in its revised form) that can account for decision making across cultures. Rather, we need to think about creating culture-dependent predictive models and investigate more fully whether it is cultural values, relative wealth, different economic systems or some interaction among them that drives decision making behavior.

#### REFERENCES

Alghalith, M., Floros, C., &Dukharan, M. (2012). Testing dominant theories and assumptions in behavioral finance. *Proquest*.<u>http://search.proquest.com/docview/1014252017/94778EE9FA05455CPQ/4?accountid</u> =34939

Boucher, I. & Leddo, J. (2022). Investigating the Leddo, Jayanti and Duan (2019) revised Prospect Theory value function with Nicaraguan students. *International Journal of Social Science and Economic Research*, 7(4), 1141-1152.

ISSN: 2455-8834

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Gilovich, T., Griffin, D., & Kahneman, D. (Eds.) (2002). *Heuristics and Biases: The Psychology of Intuitive Judgment*. New York: Cambridge University Press.

Gu, Y. & Leddo, J. (2022). Investigating the Leddo, Jayanti and Duan (2019) revised Prospect Theory value function with Chinese students. *International Journal of Social Science and Economic Research*, 7(6), 1618-1631.

Haridon, O.L. & Vieider, F. M. (2019). All over the map: A worldwide comparison of risk preferences. Quantitative Economic, 10, 185-215.

Heinrich, J., Heine, S.J. & Norenzayan, A. (2010). The weirdest people in the world. *Behavioral* and Brain Sciences, 33, 2-3.

Jones, B.D. (2001). *Politics and the Architecture of Choice: Bounded Rationality and Governance*. London and Chicago: The University of Chicago Press.

Kahneman, D., & Tversky, A. (1979). Prospect Theory: An Analysis of Decision Under Risk. *Econometrica*, 47(2), 263-91.

Kahneman, D., & Tversky, A. (Eds.) (2000). *Choices, Values, and Frames*. Cambridge: Cambridge University Press.

Leddo, J., Jayanti, A. & Duan, I. (2019). Prospect Theory Revisited: Incorporating Decision Maker's Goals into the Value Function. *International Journal of Social Science and Economic Research*, 4(10), 6619-6640.

Leddo, J & Shukla, A. (2020). Prospect Theory Revisited: Investigating the Applicability of a Revised Value Function on Decisions that Benefit the Self or Others. *International Journal of Social Science and Economic Research*, 5(9), 2672-2684.

Leddo, J &Elkas, M. (2021). Prospect Theory Revisited: Viewing the results of framed decisions through a revised value function. *International Journal of Social Science and Economic Research*, 6(10), 3972-3983.

McClure, J. (2004). The Domestic and International Dimensions of Risk: Prospect Theory and Argentina (Unpublished doctoral dissertation). Naval PostGraduate School, Monetary California.

Nwogugu, M. (2005). Towards multi-factor models of decision making and risk: A critique of Prospect Theory and Related Approaches, part I. *The Journal of Risk Finance*, *6*, 2. pp. 160-162.

ISSN: 2455-8834

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Perez-Floriano, Lorena R. & Gonzalez, Jorge. (2007). Risk, safety and culture in Brazil and Argentina: The case of TransInc Corporation. International Journal of Manpower. 28. 403-417. 10.1108/01437720710778394.

Riabacke, A. (2006). Managerial Decision Making Under Risk and Uncertainty. *IAENG International Journal of Computer Science*, Retrieved from <u>http://www.iaeng.org/IJCS/issues\_v32/issue\_4/IJCS\_32\_4\_12.pdf</u>

Tun, K., Tun, S., Campbell, J. & Leddo, J. (2022). Investigating the Leddo, Jayanti and Duan (2019) Revised Prospect Theory Value Function with Japanese Students. *International Journal of Social Science and Economic Research*, 7(9), 3024-3036.

Tversky, A. & Kahneman, D. (1981). The framing of decisions and the psychology of choice. *Science*, *211*, 453-458.

Weyland, K. (1996). Risk Taking in Latin American Economic Restructuring: Lessons from Prospect Theory. *International Studies Quarterly*, 40(2), 185-207.

Weyland, K. (2006). *Bounded Rationality and Policy Diffusion: Social Sector Reform in Latin America*. Princeton and Oxford: Princeton University Press.