How Well Do Parents Know Their Own Preferences When Making School Choice Decisions? Trent N. Cash & Daniel M. Oppenheimer Carnegie Mellon University, Department of Social & Decision Sciences/Department of Psychology

Abstract

- School choice initiatives assume that parents of accurately identify and self-report their preferent
- Across two studies, we found that correlations between stated and revealed (via CBC) attribut weights in school choice decisions were surprise low, thus indicating that participants lacked metacognitive knowledge of their preferenc

Motivation

- School choice initiatives, which are becoming increasingly popular (NCES, 2019), assume th parents can accurately introspect to determine attributes they think are important in a school.
- However, research suggests that decision-mak lack this kind of metacognitive knowledge and cannot identify factors that influence their decis (e.g., Nisbett & Wilson, 1977; Suk & Yoon, 201
- If parents lack this kind of metacognitive knowl they are to likely make suboptimal school choic
- As such, we sought to evaluate participants' metacognitive knowledge of the weight they pla various attributes in school choice decisions.

Methods (2 Studies)

- MTurk participants (*n*s = 191, 214) were told to imagine they were parents picking between high schools for their children to attend.
- Participants first completed a Choice-Based Co survey in which they made 14 choices (Example Figure 1) between sets of 3 schools based on attributes. Studies 1 and 2 used different, but overlapping, sets of attributes (See Figure 2).
- Participants then self-reported (in percentages) the weight they placed on each attribute when making their choices.

Figure 1: Example CBC Task (Study 2)

can ences.	Average Parent Rating of the School	2 Stars	5 Stars
ıte	Per-Student Spending	\$11,000	\$7,000
isingly	Average Teacher Exam Score Percetile	70th	30th
ces.	Emotional Support Score	2.0	2.8
	Graduation Rate	85%	95%
nat what	Percent of Students Who Pass State Tests	65%	20%
kers	School Crime Rate per 1,000 Students	45	60
often sions		Select	Select
∠).			
ledge, ces.	Analysis		
ace on	 We estimated Revealed Attribute We Choice-Based Conjoint data using Hi Estimation (Sawtooth Software, 2021 We then calculated correlations betwo Stated Attribute weights (SAWs) that 		
	Stated A	ttribute weights	elations betw (SAWs) that
	Stated A participa	ttribute weights	elations betw (SAWs) that
h Dnjoint le in	 Stated A participa We bene simulatin randoml correlation 	Calculated correction Attribute weights ants. chmarked perfect of 200 responde y assigned attribute on between RAM	elations betwee (SAWs) that oute metacognit oute weights. Ns and weights
h Digioint le in 7	 Stated A participa We bene simulatin randoml correlation Finally, v correlation respond 	Attribute weights ants. chmarked perfect og 200 responde y assigned attrik on between RAV we used Fisher's ons between the ents.	elations betw (SAWs) that oute metacognit ents that mad oute weights. Ws and weights and weights s r to z transfe e participants

National Center for Education Statistics (2019). School Choice in the United States: 2019. Institute of Education Sciences. Nisbett, R. E., & Wilson, T. D. (1977). Telling more than we can know: Verbal reports on mental processes, *Psychological Review, 84*(3), 231-259. Sawtooth Software (2021). Lighthouse Studio (Version 9.11.0) [Computer software]. https://sawtoothsoftware.com/lighthouse-studio Suk, K., & Yoon, S.-O. (2012). The moderating role of decision task goals in attribute weight convergence. Organizational Behavior and Human Decision Processes, 118(1), 37-45.

Figure 2: Correlations Between RAWs & SAWs



- eights (RAWs) from the ierarchical Bayes
- veen RAWs and the were self-reported by
- tive knowledge by le choices based on The average hts was *r* = .89.
- formations to compare and the simulated

Results & Discussion

- participants' estimates of their own RAWs.
- level, or parental status.
- the success of school choice initiatives.

References

Attribute

The average correlations between RAWs and SAWs for participants were r = .52 (Study 1) and r = .48 (Study 2). These correlations were surprisingly low, given that SAWs were

 Correlations between RAWs and SAWs for each attribute (rs = 15 - .77; reported in Figure 2) were significantly lower (zs = 4.20 - 13.02; ps < .001) than the average correlation for the simulated respondents (*r* = .89; orange line in **Figure 2**). These results were robust to splitting the data by gender, education

• Our findings suggest that parents lack the necessary metacognitive knowledge to accurately determine and report their school choice preferences, thus presenting a roadblock to