

Our social judgments reveal a tension between morals and statistics

January 2 2019

People make statistically-informed judgments about who is more likely to hold particular professions even though they criticize others for the same behavior, according to findings published in *Psychological Science*, a journal of the Association for Psychological Science.

"People don't like it when someone uses group averages to make judgments about individuals from different social groups who are otherwise identical. They perceive that person as not only lacking in goodness, but also lacking in intelligence," says psychology researcher Jack Cao of Harvard University. "But when it comes to making judgments themselves, these people make the same type of judgment that they had so harshly criticized in others."

"This is important because it suggests that the distance between our values and the people we are is greater than we might think," Cao adds. "Otherwise, people would not have made judgments in a way that they found to be morally bankrupt and incompetent in others."

Say, for example, you hear about a man and a woman who both performed surgery—only one of them is a doctor, but which one? From a statistical standpoint, you would consider the fact that there are more men who are doctors than there are women who are doctors; you might also think about the fact that not all people who perform surgery are doctors. From a moral standpoint, you may believe that men and women are equally capable of being doctors. How would you answer?

Cao and coauthors Mahzarin Banaji of Harvard University and Max Kleiman-Weiner of the Massachusetts Institute of Technology hypothesized that people would experience a tension between the statistical approach and the moral approach. The researchers conducted a series of online experiments to test this hypothesis.

In one study, 199 [participants](#) learned that a man and a woman had performed surgery. They indicated whether the man was less, equally, or more likely to be a doctor than the woman was. They then learned about another person, Person X, who determined that the man was more likely to be a doctor. Using 7-point rating scales, they indicated how fair, just, accurate, and intelligent they thought Person X was.

The vast majority of participants, 93%, reported that the man and woman were equally likely to be doctors. And they tended to view Person X as not only unfair and unjust, but also inaccurate and unintelligent for stating that the man was more likely to be a doctor.

The results were similar in another online study, in which participants learned about a man and a woman who worked in a hospital, one of whom was a doctor and the other a nurse. Again, the majority of participants (91%) reported that the chance that the man was the doctor was equal to the chance that the woman was. When X made the statistically-based judgement that there was a higher chance of the man being the doctor, they viewed X as unfair, inaccurate, and unintelligent; in this situation, they also shared less money with X when given the opportunity to do so.

However, participants tended to make the statistically-based judgment themselves when they actually estimated the likelihood that a given person who performed surgery was a doctor versus a nurse. That is, they estimated likelihood of the person being a doctor was higher when the person in question was a man as opposed to when the person was a

woman.

Despite this, they still criticized Person X for making the same statistically-informed judgment they had made.

Additional findings suggest that participants showed a similar pattern of decision making when the target individual was a pilot. Intriguingly, participants did not endorse the egalitarian judgment or criticize Person X for making a statistical judgment when the target individual was a butcher, firefighter, or construction worker

Cao and colleagues note that all of these experiments were conducted with online participants; however, research suggests that online samples produce data similar to those collected from lab-based samples.

Ultimately, the research reveals a discrepancy between how we perceive own social judgments versus the judgments that others make. The findings may have particular implications in domains such as law, business, education, and healthcare, where "a disparity between values and actions has significant consequences," Cao explains.

More information: Jack Cao et al, People Make the Same Bayesian Judgment They Criticize in Others, *Psychological Science* (2018). [DOI: 10.1177/0956797618805750](https://doi.org/10.1177/0956797618805750)

Provided by Association for Psychological Science

Citation: Our social judgments reveal a tension between morals and statistics (2019, January 2) retrieved 2 May 2024 from <https://medicalxpress.com/news/2019-01-social-judgments-reveal-tension-morals.html>

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