Persuading with Probability: The Prosecution of O.J. Simpson

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A litigator who uses probabilistic arguments to his advantage has a powerful and persuasive tool at his disposal. Even an elementary knowledge of probabilistic thinking and knowing when to and when not to employ probabilistic principles can make the difference between convincing a jury of a statement's truth versus allowing them to arrive at their own conclusions independently and often naively. In People v. Simpson, Cochran's infamous "If it does not fit, you must acquit," instruction to a naive jury was used with astounding success, and was laden with epistemological determinism. Little did the jury know that Cochran's statement, if it were truly an honorable and fair practice for determining a trial's outcome, would imply that virtually every single case that has ever been tried must result in the acquittal of the accused. Why? Because nothing ever fits, ever. Statistically (read: logically, rationally), all we can conclude is that the probability of the available evidence is rather low given the assumption of innocence - however, it is never zero, it is never statistically impossible. If the probability of the observed evidence is low given the assumption of innocence, the statistical (again, read "logical") decision is to reject the assumption of innocence, and infer guilt. But again, the probability can never be equal to zero. What this means practically is that there is always a chance that an innocent man is found guilty, and that no amount of, or nature of evidence will ever be enough for the observed evidence (or "data") to perfectly disagree with the assumption of innocence. Cochran, of course, did not tell the jury this. He instead ignored probability altogether, and implicitly swayed a suggestible jury on how to arrive at a verdict decision that is so contrary to longstanding and elementary probabilistic principles in statistical decision theory from which the very "reasonable doubt" criteria is housed.

What the Prosecution Should Have Done

The prosecution should have used a probabilistic argument to their advantage by arguing that the probability of the available evidence (e.g., DNA match, etc.) was extremely low if indeed the accused was an innocent man. A simple analogy and instruction to the jury would have done the trick:



To the jury:

"If a coin is assumed fair, meaning that the probability of heads is equal to that of tails on any given flip, then what am I to think of the coin after flipping it one hundred times and getting 100 successive heads? The probability of data like this (i.e., the 100 heads), when assessed statistically, is so low that we end up casting doubt that the coin is fair in the first place. In other words, our witness of a series of flips like this is an extremely rare event if the coin were actually fair. Consequently, we end up rejecting the assumption of "fairness" and conclude instead that the coin is biased." Drawing on the above coin analogy, it would have been so easy for the prosecution to link this type of reasoning to the task of the jury:

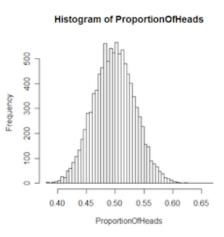
"Likewise, if Mr. Simpson is indeed innocent, then the probability of having this kind of surmounting evidence against him (e.g., DNA match, etc.) is astronomically low to be virtually impossible - rationally, rejecting the assumption of innocence is a no-brainer, just as rejecting the assumption that the coin is fair is a no-brainer. In other words, our witness of a series of events as has been presented to the court is an extremely rare event if the accused were actually innocent. Consequently, he must be guilty within a reasonable doubt."

However, the jury was never presented with this type of probabilistic framework, and so they were easily swayed by Cochran's deceptive and deterministic (and logically false) non-probabilistic argument. Had the prosecution encouraged the jurors to think and decide using statistical reasoning, they would have been rationally obligated to convict Mr. Simpson, just as easily as they would have found the coin to be unfair. Teaching the jury a few basic probabilistic principles would have done wonders in instructing them on how they were to decide the verdict.

The Lesson: Probability is Your Ace in Court

The take-home message here is that by either introducing or avoiding probabilistic principles into an argument, a trial lawyer can set the criteria by which a juror will decide. As in the O.J. Simpson case, if probability works against you, one can deliberately deny probabilistic ideas in the verdict instruction as Cochran did, and adopt a more deterministic approach. If, however, probability works for you, then one can easily illustrate using an elementary coin-flip example how it is the jury's job to assess the probability of the available evidence given the assumption under test, that of innocence of the accused. If that probability is quite low, one has a strong statistical argument to conclude the assumption of innocence must be doubted, and hence rejected.

Always present and interpret evidence with a keen awareness of how you are or how you are not using probabilistic reasoning in your argument to a jury. It can make the difference between winning and losing a case.



We asked a trial consultant to respond to this article and Ken Broda-Bahm offers his thoughts below.

Ken Broda-Bahm responds to Persuading with Probability: The Prosecution of O.J. Simpson

<u>Ken Broda-Bahm</u> is a senior litigation consultant with Persuasion Strategies in Denver, Colorado.

Dr. Denis makes the argument that litigators should express arguments more accurately using probabilistic terms. It is hard to argue against the use of greater logical rigor in delivering and interpreting arguments in court. At the same time, however, it is the lawyer's responsibility to understand the reactions to those arguments from a jury that may lack even a basic knowledge of logical probability. The question that I would

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like to raise is whether the choice to portray innocence or guilt in explicitly probabilistic terms is at war with either the default human tendencies toward handling probabilities, or the practical demands of advocacy.

Most people are likely to be naive thinkers when it comes to probability. We can understand the general concepts, and we are fine with broad constructs like "more likely," "less likely," and "highly unlikely." Yet, outside of realms of mathematics or coin flips, it seems unlikely that most people would be able to logically quantify chance. To take Dr. Denis' example of the preferred formulation, the prosecutor can say that the evidence against Mr. Simpson is equivalent to a coin hitting heads in 100 out of 100 flips, but is it? Does the courtroom spectacle of Mr. Simpson failing to get the glove onto his hand take that number down to 80? Possibly, 50? Or maybe to 25? If that seems like a square peg trying to fit into a round hole, it is because it is an attempt to apply mathematical rules to a matter of fuzzy human judgment. Jurors want to think about Mr. Simpson as guilty or innocent, and even for those who understand and are willing to apply a "beyond a reasonable doubt" standard, it is unlikely that this standard could ever be put into mathematical terms.

Attempts to quantify the chances of innocence or guilt can come at a cost to the credibility of the advocate. For example, I suspect that no prosecutor would want to stand before a jury and state that the accused is "probably" guilty, or worse yet, to compare their case to a series of coin flips. Invoking the real element of fundamental uncertainty may be logical but it seems unlikely to persuade. To the prosecutor, and to the world-view that the prosecutor invites the jurors into, the accused is guilty, plain and simple. Juries can, should, and often do rely on burden of proof and comparative probability to resolve an impasse created by the two different narratives, but when the advocates themselves on either side make their arguments explicitly probable by invoking burden of proof, it is generally a sign that their case is not going well.



It is likely that Mr. Cochran expressed his argument in definite rather than probable terms simply because it made for a more effective argument that way. If you grant the defense the benefit of the doubt, realizing that is hard for many to do on People v. Simpson, Mr. Cochran's argument focused on the single anomalous fact that casts into doubt the entire body of evidence from the prosecution. Rather than expressing it as a degree of doubt introduced by the single fact, it is better and arguably more accurate to express it based on its bottom line: if the killer had smaller hands than Mr. Simpson, then Mr. Simpson is not the killer. We now know that there were many reasons other than possible innocence why the gloves "didn't fit": e.g., shrinkage while in evidence storage (later in the trial, Mr. Simpson tried on a new glove of the same style and it fit perfectly). The fact that the

prosecution failed with this jury to see the failed fitting as a logical ruse shows perhaps that jurors treated the glove less as a logical refutation and more as a metaphor for the many argued facets of the prosecution's case that didn't fit perfectly. Dr. Denis' point that it will never fit perfectly is well taken, but the solution isn't to

treat jurors as machines capable of calculating probability, but to treat them as narrative reasoners who assess the rough comparative likelihood of two different stories.

Daniel Denis responds to Ken Broda-Bahm

In his reply to my article, Ken Broda-Bahm argues that a prosecutor would be at a disadvantage to introduce the concept of probability into a juror's decision-making process. Though he is absolutely correct that most jurors (and judges) have some difficulty with assimilating probabilistic arguments, we do appear to be in agreement that probabilistic thinking *is* in the brainwork of a juror regardless of whether or not he or she is aware of it. What is the "comparative likelihood" task Broda-Bahm alludes to other than a job of assigning probabilities? Further, how likely does a story have to be before I, the juror, send a man to jail? How likely does that same story have to be before I send the same man to death row? It is a question of chance, and one cannot escape probabilistic thinking in arriving at a legal verdict, assuming it be a rational one.

To clarify, I am not arguing that attorneys introduce probability concepts into *every* case, nor am I suggesting that we ask jurors to perform complicated and seemingly trivial academic mathematical computations of real empirical probabilities. Far from it. My point rather is that there are instances where the simple *concept* of probability can be effectively used as a powerful weapon of persuasion and instruction. At minimum, it behooves counsel to be aware of when probability concepts are, or are not put in play by their opponent, so they may counter with greater success.

Mr. Cochran essentially told the jury that if a piece of evidence does not fit *perfectly* into the mental imagery of a guilty man, then regardless of all the other pieces that *do* fit (and fit quite well), the accused must be set free. The suggestible jury was likely unaware that his instruction was pure manipulative nonsense, and the least the prosecution could have done was to anticipate with their own preparatory lesson on how, logically, they were to arrive at a rational verdict. Teaching a jury how to make rational decisions, which necessarily implies the instruction of very basic and elementary probabilistic reasoning, may be a worthwhile investment in your case. If jurors were better educated on how to assess evidence as inputs to a decision, perhaps they would make better ones, instead of basing them on emotional, political, and other heavily biased breeding grounds that are the faithful servants of irrational decision-making.

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Editor's Note

It's the dog days of summer here in the heart of Texas but this issue is sure to keep you glued to your computer screen! Once again, we have a variety of pieces that are thought-provoking and provocative but also carefully researched and written. To start us off, Sam Sommers reviews the research he's done over the past ten years and sets the record straight on what we know (and what we don't know) about race and jurors. All of our stock portfolios have taken hits and been on something of a stomach-wrenching course for the past while but Eric Rudich has been watching something odd: how Wall Street reacts to the litigation verdicts of publicly traded litigants. Read and learn. Daniel Denis has an eye toward numbers as well but his focus is on how to talk to jurors about probability so they "get it".

Doug Keene and I review the literature (the real literature) on the Millennials (also known as Generation Y) and discuss how you can use this knowledge to inform your litigation advocacy (and learn a bit about tattoos along the way). Alexis Robinson looks at the phenomenon of white guilt and how it plays into jury deliberations. Thaddeus Hoffmeister examines the impact of the Skilling verdict and what we need to consider as we move forward in a changed litigation arena. And finally, Desiree Griffin and Emily Patty take a look at the need for affect (aka emotion) in jury decision-making. Why even go outside? Make some coffee (or maybe a cool drink) and sit down to read the July issue of The Jury Expert! And, as always, please comment on our website so we know what you're thinking and what you're especially interested in and intrigued by.

Rita R. Handrich, Ph.D., Editor

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