

## Errata

preface, page xi: "Eric Turner" => "Erick Turner"

p23 "Any conclusions drawn from such tests will, at best, overestimate of the size of any real effect."  
=> "Any conclusions drawn from such tests will, at best, overestimate the size of any real effect."

p28, Figure 2.1: Due to a printing error, the rightmost value on the x-axis of the lower plot reads "0" when it should read "20". The digit "5" is also missing on the scale.

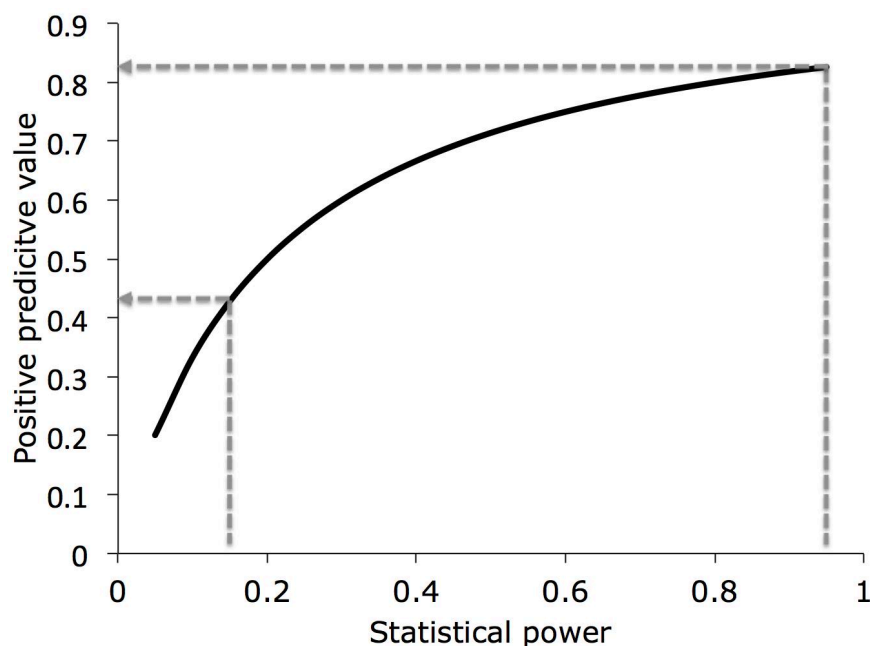
p43 "...and if any of experimental conditions..." => "...and if any of the experimental conditions..."

p47: "Richie" => "Ritchie"

pp58-59: There is a misprint in the formula for the Positive Predictive Value and associated description. In the sentence beginning "Then, since the total number of obtained positive results...", "...false positive ( $\alpha$ ):" should be replaced with "...false positive ( $\alpha \times (1-R)$ ):" Correspondingly, In the denominator of the corresponding formula, " $(1-\beta) \times R + \alpha$ " should be replaced with " $(1-\beta) \times R + \alpha \times (1-R)$ ". The corrected formula for the Positive Predictive Value should therefore be:

$$\text{Positive predictive value (PPV)} = \frac{(1 - \beta) \times R}{(1 - \beta) \times R + \alpha \times (1 - R)}$$

In the subsequent sentence "For example, if we assume a relatively low statistical power of 0.15...", "0.375" should be replaced with "0.43", and in the sentence "Increasing the statistical power from 0.15 to 0.95...", "...0.375 to 0.79" should be replaced with "...0.43 to 0.83". These corrections also apply to Figure 3.2. In the sentence of the figure caption: "When power is just 0.15 (lower-left dotted line), then the PPV is also just .375", the value of ".375" should be replaced with ".43". And in the sentence: "But when power is increased to 0.95 (upper-right dotted line), the PPV rises to 0.79", the value of "0.79" should be replaced with "0.83", and in the next sentence beginning "This curve plateaus at 0.8;...", the value of "0.8" should be replaced with "0.833". Finally the plot itself requires adjustment to reflect these corrections. The dotted horizontal lines should target values of 0.43 and 0.83 rather than 0.375 and 0.79. The corrected Figure 3.2 is below. Thanks to Aurélien Allard for spotting this error.



p63 "...a significant improvement compared the control..." => "...a significant improvement compared with the control..."

p63 "...is more promising that this previous..." => "...is more promising than this previous..."

p84: "...Matthew MacManes of the University of Hampshire..." => "...Matthew MacManes of the University of New Hampshire..."

p105: "For many psychologists, the instinctive reaction this case is to..." => "For many psychologists, the instinctive reaction in this case is to..."

p122: "It contains the material that will enable you generate..." => "It contains the material that will enable you to generate..."

p135: "...adds to existing payments to great an..." => "...adds to existing payments to create an..."

p154: "*Open Biology* is actually less severely skewed that many scientific journals..." => "*Open Biology* is actually less severely skewed than many scientific journals..."

p160: "...the then chief editor of its flagship journal, *Psychological Science*..." => "...the chair of the Association's Publications Committee..."

p161: "Carl Bergstrom, a professor of biology at Washington University..." => "Carl Bergstrom, a professor of biology at the University of Washington..."

p183: "If the submitted manuscript passes editorial triage, it is then it is sent for in-depth peer review..." => "If the submitted manuscript passes editorial triage, it is then sent for in-depth peer review..."

p188: "It would interesting..." => "It would be interesting..."

p213 "When writing the method section of an article, declare your degree of transparency by stating the "21 word solution" [by] proposed by..." => "When writing the method section of an article, declare your degree of transparency by stating the "21 word solution" proposed by..."

p214: "...for standardized publicly archiving..." => "...for standardized public archiving..."

p221 Note 13 (line 3): "Theodor" => "Theodore"

p222 Note 32: "...dangers of hindsight bias in in hypothesis testing..." => "...dangers of hindsight bias in hypothesis testing..."

p237, Note 1: "It can freely downloaded..." => "It can be freely downloaded..."

p245 Note 26: "It's policy requires..." => "Its policy requires..."

p252, Note 21: "Dorothy Bishop has delivered a blistering attacking on..." => "Dorothy Bishop has delivered a blistering attack on..."

p252 Note 24: “Of 98 respondents, 57 percent believed that “Mary should and would” be promoted over Mary, while only 6 percent...” => “Of 98 respondents, 57 percent believed that “Mary should and would” be promoted, while only 6 percent...”

p253, Note 29: “...last authorship is sign of academic leadership...” => “...last authorship is a sign of academic leadership...”

p256 Note 14: “...collaborations attempts” => “...collaboration attempts”

pp-259-260 Note 48

Due to a transposition error, the cited references in Note 48 (pp259-260) appear in the wrong order. The text of footnote 48 should read:

“Alex Etz has provided a Bayesian analysis of these results; he finds that about 20 percent of the attempted replications provided strong evidence for a replication failure and 25 percent provided strong evidence for replication success, with the remainder occupying a middle ground of moderate or inconclusive evidence either way:

<https://alexanderetz.com/2015/08/30/the-bayesian-reproducibility-project/> For a different Bayesian analysis of the Reproducibility Project: Psychology, see Alexander Etz and Joachim Vandekerckhove, “A Bayesian perspective on the reproducibility project: Psychology,” *PLOS ONE* 11, no. 2 (2016): e0149794, <http://dx.doi.org/10.1371/journal.pone.0149794>.”

p261 Note 59 (line 3): “...publishing entirely with so-called...” => “...publishing entirely within so-called...”

p274 “Zwann” => “Zwaan”