

P-values

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Recent articles on p-values

John Ioannidis wrote an early critique (Ioannidis, 2005) focussing on reproducibility and a more recent follow-up (Ioannidis, 2019).

Regina Nuzzo (2014) wrote a short article in Nature that was widely read.

Ron Wasserstein and Nicole Lazar (2016a) wrote “ASA Statement on p-values: Context, Process and Purpose” in the *American Statistician*.

Three years later they published a special issue of the *American Statistician* devoted to p-values. The editorial for the special issue, by Wasserstein, Schirm and Lazar (2019a) “Moving to a world $p < 0.05$ ”, includes synopses of the articles in the issue.

In reaction to the special issue, lest the editorial in the *American Statistician* be interpreted as official ASA policy, the then president of the ASA, Karen Kafadar, convened a task force to prepare a position on p-values and tests of hypotheses. The resulting two-page statement, authored by Yoav Benjamini, Richard D. De Veaux, Bradley Efron, Scott Evans, Mark Glickman, Barry I. Graubard, Xuming He, Xiao-Li Meng, Nancy Reid, Stephen M. Stigler, Stephen B. Vardeman, Christopher K. Wikle, Tommy Wright, Linda J. Young and Karen Kafadar, was published in a number of journals including *Chance* (Benjamini et al., 2021).

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