Cover letter

Dear Dr. Steinley,

We are pleased to submit this paper to *Psychological Methods* for the General Call for Papers: Tutorials in Psychological Methods.

The paper, titled "Check your outliers! An introduction to identifying statistical outliers in R with *easystats*", provides an overview of current recommendations and best practices regarding the diagnosis and treatment of outliers, a common issue faced by researchers—and a potential source of scientific malpractice.

The methods / tutorial paper covers best practice recommendations on methods for outlier detection and treatment in statistical analyses, as well as their implementation (with code) in the easystats performance package in R. It explains the key approaches, highlights recommendations, and shows how users can adopt them in their R analysis with a single function. The manuscript covers univariate, multivariate, and model-based statistical outlier detection methods, their recommended threshold, standard output, and plotting method, among other things.

Beyond acting like a concise review of outlier treatment procedures and practical tutorial, we also introduce a new outlier-detection method that relies on a consensus-based approach. In this sense, the paper fits well with the General Call for Papers: Tutorials in Psychological Methods, as the tutorial essentially communicates to psychologists how to easily follow some of the best practices in the detection of statistical outlier using currently available open source and free software. This makes the manuscript relevant to data science, psychological and behavioural science, and good research and statistical practices more generally.

Additionally, we would like to suggest considering a streamlined review for this paper. Indeed, we submitted the paper to the *Journal of Open Source Education* (JOSE), a journal that publishes open source education materials and uses an open peer review model (hosted on GitHub). The paper went through several revisions with reviewers and was eventually enthusiastically recommended for acceptance by the reviewers and editor. The Editor in Chief then joined the conversation and declared the paper to be out of scope for the journal. The JOSE Editor in Chief's comment is available here: https://github.com/openjournals/jose-reviews/issues/221#issuecomment-1767314739 and the review history is discussed and linked above in the thread (including in the form of individual issues linked to the main package repository).

All authors have contributed substantially to the software and manuscript. All authors gave final approval to the manuscript and accept to be accountable. We have no conflicts of interest to disclose. We have also read the Transparency and Openness policy of the Editorial Policies of *Psychological Methods*.

Thank you for considering our submission.

On the behalf of all authors,

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