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Journal	Mathematics (https://www.mdpi.com/journal/mathematics) (ISSN 2227-7390)
Manuscript ID	mathematics-2265149
Type	Article
Title	Check your outliers! An accessible introduction to identifying statistical outliers in R with easystats
Authors	Rémi Thériault * , Mattan S. Ben-Shachar , Indrajeet Patil , Daniel Lüdecke , Brenton M. Wiernik , Dominique Makowski
Section	Probability and Statistics (https://www.mdpi.com/journal/mathematics/sections/probability_and_statistics_theory)
Special Issue	Advances in Statistical Computing (https://www.mdpi.com/journal/mathematics/special_issues/Advances_in_Statistical_Computing)
Abstract	Beyond the challenge of keeping up-to-date with current best practices regarding the diagnosis and treatment of outliers, an additional difficulty arises concerning the mathematical implementation of the recommended methods. In this paper, we provide an overview of current recommandations and best practices and demonstrate how they can easily and conveniently be implemented in the R statistical computing software, using the *{performance}* package of the *easystats* ecosystem. We cover univariate, multivariate, and model-based statistical outlier detection methods, their recommended threshold, standard output, and plotting methods. We conclude with recommendations on the handling of outliers: the different theoretical types of outliers, whether to exclude or winsorize them, and the importance of transparency.

Author's Reply to the Review Report (Reviewer 3)

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* Author's
Notes to
Reviewer

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Paragraph	⌄	↶	↷	▢	📋

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Quality of   ( ) English very difficult to understand/incomprehensible
English   ( ) Extensive editing of English language and style required
Language   ( ) Moderate English changes required
               (x) English language and style are fine/minor spell check required
               ( ) I am not qualified to assess the quality of English in this paper

	Yes	Can be improved	Must be improved	Not applicable
Does the introduction provide sufficient background and include all relevant references?	( )	( )	( )	(x)
Are all the cited references relevant to the research?	( )	( )	( )	(x)
Is the research design appropriate?	( )	( )	( )	(x)
Are the methods adequately described?	( )	( )	( )	(x)
Are the results clearly presented?	( )	( )	( )	(x)
Are the conclusions supported by the results?	( )	( )	( )	(x)

Comments and Suggestions for Authors

The paper outlines techniques for processing data with inhomogeneities, such as outliers. However, the style of the article does not correspond to scientific research. The work is educational and auxiliary in nature and is more in line with educational publications, including popular scientific ones.

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Submission Date	21 February 2023
Date of this review	24 Feb 2023 08:09:08

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