

Emily Robinson

From: Journal of Computational and Graphical Statistics <onbehalf@manuscriptcentral.com>
Sent: Wednesday, April 13, 2022 5:20 PM
To: Emily Robinson
Subject: Decision on JCGS-22-045
Attachments: Attached standard file: * AuthorsSubmissionGuidelinesS1-for-upload-to-S1.pdf; Attached standard file: * AuthorsSupplGuidelinesS1-for-upload-to-S1.pdf; Attached standard file: JCGS_2022_02_26_review.pdf; Attached standard file: REVIEW.pdf

Non-NU Email

13-Apr-2022

Dear Ms Robinson:

Thank you for submitting the manuscript "Eye Fitting Straight Lines in the Modern Era" for possible publication in the Journal of Computational and Graphical Statistics.

Two referees, an Associate Editor, and I have reviewed your paper. Our overall assessment is that it is interesting, but there are a number of issues to resolve concerning the novelty of the findings and the appropriateness of the analysis methods. The reviewers also make quite a few suggestions concerning presentation. Given the paper's potential, I would consider a revision that adequately addresses all of the reviewer's comments, but note that this is not a guarantee of eventual publication in JCGS.

Please also keep the following in mind for your revision:

1- Your revision should not increase the length of the manuscript.

2- I will download and run your code as part of the next round of reviews. I ask that you submit code that is documented and as user-friendly as possible. Before resubmitting please run your code in a "clean" environment as issues such as required packages that aren't loaded or calls to files that don't exist are common and can delay publication (I'm not saying these exist in your case, just asking you to be aware!).

3- Your paper will be printed in black and white. The online version will be in color but to accommodate printing without color please be sure you don't refer to color in either the figure captions or text and that all figures are still interpretable in black and white.

4- Please be sure all figures have font size of labels and any text in the figure of at least 10pt.

Articles published in JCGS are ordinarily accompanied by online publication of the data and computer code used to illustrate the proposed methods. The goal is to enable readers to replicate much of the analysis and simulations described in a paper and to apply proposed methods in their own data without having to write code from scratch. When it is not practical to include a whole dataset in the manuscript, the manuscript should state how the complete dataset can be obtained. Please let me know if you would not be able to publish your data for reasons of security or confidentiality. Please provide the computer code and/or data that you hope to publish along with your revision. I have attached the instructions for including online materials here.

Please bear in mind that your revision is due four months from today. A revision sent later than the deadline may be considered a new submission. When you provide your revision, please include a point-by-point response to each report

in a single, blinded, attachment. When uploading your response file, please choose the "Author Response to Reviewers" file designation from the drop-down menu. Please be sure to blind your response (if you chose double-blind review).

Regarding color images: I encourage you to provide figures that can be printed in gray-scale but can be viewed electronically in color. If your paper is ultimately accepted and you wish your figures to be printed in color, we may need to ask your assistance to offset the additional cost of printing. Details and a payment form will be provided if needed. For an estimate please contact the production editor at Rebecca.Corpier@taylorandfrancis.com.

When you are ready to submit your revision, please use the link below.

*** PLEASE NOTE: This is a two-step process. After clicking on the link, you will be directed to a webpage to confirm. ***

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This link will direct you to the first page of your revised manuscript.

This link will remain active until you have submitted your revised manuscript. If you begin a revision and intend to finish it at a later time, please note that your draft will appear in the "Revised Manuscripts in Draft" queue in your Author Center.

IMPORTANT: Your original files are available to you when you upload your revised manuscript. Please delete any redundant files before completing the submission.

Upon submitting your revision, you will be asked if the manuscript has been submitted to the journal previously. Click 'Yes' and then cut-and-paste the manuscript number from the email you received.

Because we are trying to facilitate timely publication of manuscripts submitted to Journal of Computational and Graphical Statistics, your revised manuscript should be uploaded by 11-Aug-2022. If it is not possible for you to submit your revision by this date, we may have to consider your paper as a new submission.

Once again, thank you for submitting your manuscript to Journal of Computational and Graphical Statistics. I look forward to receiving your revision.

Sincerely,

Galin Jones

Editor, Journal of Computational and Graphical Statistics galin.jcgs@gmail.com

Reviewer(s)' Comments to Author:

Reviewer: 1

Comments to the Author

The review is provided in the attached pdf file.

Reviewer: 2

Comments to the Author

See the attached file

Editor's Comments to Author:

Associate Editor

Comments to the Author:

Thank you for your submission and interesting work. Two reviewers have provided feedback and suggestions on your manuscript. There are a few points I would like to emphasize and request clarification:

1. In your manuscript, it would be helpful if you could clarify and emphasize the novelty of your experiment, data collection, and analysis. In particular, how does your work differ from Ciccione and Dehaene (2021)?

(Ciccione, L. and Dehaene, S., 2021. Can humans perform mental regression on a graph? Accuracy and bias in the perception of scatterplots. *Cognitive Psychology*, 128, p.101406.)

2. In Section 3, it is helpful to note the R functions used as comments or footnotes, but you should also clearly describe the method of estimation. In other words, what are the R functions doing to estimate the model?

3. Could you clarify if the participants were known to be experts in statistics or related fields?

4. Throughout the manuscript, references to “principle components” should be “principal components.”

SW - Major Revision