**EXPLANATORY STATEMENT**

**(**Persons identified as having related domain expertise**)**

**Project: The effect of user interaction on discerning sensitivity to structure in linear projections**

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You are invited to take part in this study. Please read this Explanatory Statement in full before deciding whether or not to participate in this research. If you would like further information regarding any aspect of this project, you are encouraged to contact the researchers via the phone number or email address listed above.

**What does the research involve?**

Data visualization is an important aspect of exploratory data analysis. Providing visual representations of data conveys more information, in a more complete way than looking at summary statistics alone. Multivariate data is becoming increasingly ubiquitous. This study contrasts the speed, accuracy, understanding, and speed of use of three factors of multivariate data visualization. Participates will perform three higher-level analyst tasks on one of the factor visualizations. The responses, and the following seven-question survey will be used to contrast the performance of contemporary visualization with two alternatives with more interactive natures.

**Why were you chosen for this research?**

You are asked to take part of this research because you were identified as a person with relevant domain expertise that would be suited to apply or interpret such linear projections.

**Consenting to participate in the project and withdrawing from the research**

Should you agree to participate, by signing the electronic consent form, you will be asked to complete an online study estimated to take about 30-45 minutes to complete.

Participation is completely voluntary. You are able to withdraw (quit) at any time by simply closing the browser window.

**Possible benefits and risks to participants**

All relevant information will be collected within the study responses and following survey question, as such, no identifying or demographic information will be collected.

**Payment / reward**

No financial incentive is being offered for completing this survey.

**Confidentiality**

No identifying data will be collected. The non-identified response and survey data will be stored in its collected format as well as its post-analysis format for the purpose of reproducibility.

**Storage of data**

Pre– and –post analysis versions of the unidentified data will be stored indefinitely on the public GitHub repository, <https://github.com/nspyrison/spinifex_study>

**Results**

The finding of this research will be published in a related journal. A preprint version of the article will be publicly available. Published figures will look only at the aggregation and distributions of the non-identified.

**Complaints**

Should you have any concerns or complaints about the conduct of the project, you are welcome to contact the Executive Officer, Monash University Human Research Ethics (MUHREC):

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| Executive Officer Monash University Human Research Ethics Committee (MUHREC)  Room 111, Chancellery Building E, 24 Sports Walk, Clayton Campus Research Office Monash University VIC 3800  Tel: +61 3 9905 2052 Email: [muhrec@monash.edu](mailto:muhrec@monash.edu) Fax: +61 3 9905 3831 |  |

Thank you,

**Nicholas Spyrison**