

DEPARTMENT OF MATHEMATICS October 19, 2017

Professor Montserrat Fuentes Applications and Case Studies Editor Journal of American Statistical Association

Dear Professor Fuentes,

Please find enclosed a manuscript "Human Factors Influencing Visual Statistical Inference" which we are submitting for consideration for publication in the Applications and Case Studies section of the Journal of American Statistical Association.

This paper is the complement of the two foundational papers describing research which bridges graphics, exploratory data analysis/data mining, and statistical inference. The first paper by Buja, et al (2009) published in RSS Phil. Trans. A, sets up the conceptual foundation of visual inference. The second paper by Majumder, et al (2013) published in JASA Theory and applications section, clarifies and defines the approach and validates it with a user study. It was one of the most read JASA articles and selected to be a feature article. This paper studies the human factors that may influence the visual inference conducting a series of 10 experiments with human subjects. We believe this paper is of interest to the JASA readership.

Thank you for your consideration of our work.

Sincerely yours,

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