

Abstract Submissions

Confirmation of Abstract

Abstract Number **321416** has been updated.

Abstract Information

Abstract Type: [Contributed](#)
Sub Type: [Papers](#)
Sponsor: [Section on Statistical Education](#)
Track: [Miscellaneous](#)
Title: [Twelve Big Ideas for Introductory Statistics](#)
Abstract: [In 1998, David Moore suggested some of the big ideas for introductory statistics. In 2004, McKenzie polled statistical educators on what they thought were the most important topics in introductory statistics. Some of Moore's topics were not in McKenzie's poll and vice versa. This paper introduces 12 big ideas for introductory statistics. These 12 ideas are argued to be the most important -- more central -- to introductory statistics even though some of them are not contained in either list and are not contained in any introductory statistics textbook at this time. This paper focuses specifically on what are argued to be the two most important claims. \(1\) Statistics are numbers in context and \(2\) association is not causation. Both of these are stated in very abstract terms. Students need concrete examples that can be stated using every day ordinary English. This paper also focuses on the Cornfield conditions: the necessary conditions for a confounder to nullify or reverse the sign of an association.](#)

Key words: [statistical literacy](#) , , , ,

I give my permission for my paper to be changed to a poster presentation: **No**

Audio-visual: Audio-Visual Guidelines: Each technical session room will be equipped with a complimentary PC-compatible laptop, LCD projector, screen, and lectern with microphone. Additional equipment must be ordered and paid for by the presenter. All rooms will be connected to the JSM speaker management system with access to upload in advance and onsite. For the poster part of Speed sessions, each presenter will be provided with a 42" display screen and a laptop.

Authors

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