



Resources

Professional Development

Research

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Workshops

Webinars

Chance News

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eCOTS 2012 The First Biennial Electronic Conference On Teaching Statistics May 14-18, 2012

Call for Proposals

Submission successful. Thank you!

Contact Information:

Milo Schield
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Format: Session

Theme: Teaching Statistics: Debating some of the Big Ideas

"A "Second" Statistics Course is Needed: What should it be?"

Big data, AP stats and the common core are driving the need for a "second" statistics course. What should it be? Isaacson will argue for a Statistical Literacy course that emphasizes breadth. Schield will argue for an advanced-topics follow-on course that emphasizes depth. Isaacson will argue that the traditional inference course doesn't have time for important topics such as coincidences, confounding, evaluating surveys and studies, and "Where do statistics come from?" so a statistical literacy course is needed. Schield will argue that the 50% of college graduates who are in quantitative majors and are required to take a statistical inference course need a follow-on applications course. This course should focus on inference-related applications (ANOVA and web analytics), modelling (linear and logistic regression), simulation (boot strapping and financial modeling) and other advanced topics (factor and cluster analysis; epidemiology and causation in observational studies). Participants will be given specific examples of each topic so they can better appreciate their value to students. Participants will be invited to support either side or both during the presentation. [Schield has taught the advanced modelling course using linear and logistic regression, an MBA course in quantitative methods, and is using web analytics to make business decisions. Isaacson developed the first Statistical Literacy course online and the first Statistical Literacy for Managers course.]



If you need to make any changes to this submission, either now or in the future, please email Jean Scott at jscott@causeweb.org.