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**A modeling and simulation approach to informal inference: successes and challenges.**

Ben-Zvi, Dani (ed.) et al., The teaching and learning of statistics. International perspectives. Cham: Springer (ISBN 978-3-319-23469-4/hbk; 978-3-319-23470-0/ebook). 139-150 (2016).

Summary: The research presented explores various ways in which introductory statistics students used dynamic statistical software to generate models and simulations as tools to support their thinking and to help them answer informal statistical inference questions. Modern computing technology has changed the nature of statistics as a discipline. Introductory statistics courses need to change if they are to keep pace with modern innovations in statistics. This research report focuses on 16 students enrolled in an elementary statistics course. The course implemented CATALST curricula and the extensive use of TinkerPlots software in order to investigate students' successes and challenges as they engaged with the technology as a tool for answering informal statistical inference questions.

*Classification:* K70 U70 K90

*Keywords:* statistics; informal inference; technology; simulation; TinkerPlots

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