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**Daniel A Showalter\*** ([daniel.showalter@emu.edu](mailto:daniel.showalter@emu.edu)). *Using authentic data in spreadsheet assignments and quizzes to improve students' attitudes towards elementary statistics.* Preliminary report.

Introductory statistics courses are often a source of anxiety and frustration for students. Guided by current statistics education research, I implemented a "statistical reasoning learning environment" that emphasized the use of technology with authentic, relevant data to lower anxiety and improve students' attitudes towards statistics. I measured changes in attitude throughout four courses, two online and two face-to-face, using the Survey of Attitudes Towards Statistics (SATS-36). I will present results, both in general, as well as specifically for the subgroups of underrepresented minority students and first generation college students. (Received September 20, 2018)