

1145-N5-324 **Bernadette L. Lanciaux*** (bllsma@rit.edu), School of Mathematical Sciences, Rochester, NY
14623. *The View from the Trenches: Teaching Introductory Statistics in a Digital World.*

My introductory statistics course is both an introduction to statistics and data science. The new approach grew out of several factors. •NOT mentioning Data Science in introductory statistics is dishonest in a digital world. •Explaining to students how to use a t-table to find the p-value in a two tailed hypothesis test about the mean is like describing how to get into an advanced yoga pose. •TI technology is older than our students. •Simulation Based Inference doesn't help students do the analysis they need to do in their program of study.

Students need to know how to •deal with real data in all its beauty and complexity. •do extensive exploratory data analysis, including contemporary data visualization. •communicate the results of their analysis to a non-technical audience.

I will share course materials that demonstrate how to cover all this material in a single semester, show examples of student work and share student comments about their experience in the course. (Received August 31, 2018)