

1116-H5-2297 **Eleanor S. Farrington*** (efarrington@maritime.edu), 101 Academy Drive, Buzzards Bay, MA 02532. *Student Heights and Prediction Intervals*. Preliminary report.

For the most part, the idea of prediction intervals follows naturally from confidence intervals, but the differences are sufficient to warrant further investigation. This talk will describe a simple, in class activity doing just that. Working from first day class survey data, we construct confidence and prediction intervals for heights of students at our school. Then we test our predictions in the school population, creating opportunities to discuss random sampling and reinforce concepts from earlier in the semester, as well as explicitly seeing the power and limitations of prediction intervals in practice. (Received September 22, 2015)