



The University of Chicago
Department of Statistics
STATISTICS COLLOQUIUM

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**Using the Bootstrap to Teach Confidence Intervals in
an Introductory Statistics Course**

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110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

Confidence intervals are challenging concepts for students to understand. They are often misinterpreted, even by experts in the field. Students can construct them when given the formulas, and can even memorize the formulas to do so, but have trouble giving an accurate interpretation of the interval. This talk will illustrate how bootstrap confidence intervals can be used to introduce the typical, formula-driven confidence intervals. I will give examples of implementing this in an introductory statistics course and discuss some pros and cons of using this method.

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