



THE UNIVERSITY OF  
CHICAGO

Department of Statistics

STATISTICS COLLOQUIUM

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FAB Tests and Intervals for Multilevel Data

MONDAY, December 3, 2018 at 4:30 PM

Eckhart 133, 5734 S. University Avenue

*Refreshments before the seminar at 4:00PM in Jones 111*

### ABSTRACT

Mixed effects models are used routinely in the biological and social sciences to share information across groups and to account for data dependence. The statistical properties of such models are often quite good on average across groups, but may be poor for any specific group. For example, commonly-used confidence interval procedures may maintain a target coverage rate on average across groups, but have near zero coverage rate for a group that differs substantially from the others. In this talk, we review some basic mixed effects modeling tools, discuss their group-specific properties, and present some new tools that permit both the sharing of information across groups and also maintain frequentist error rates for each specific group.

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For further information and inquiries about building access for persons with disabilities, please contact Jonathan Rodriguez at 773.702.8333 or send him an email at [jgrodriquez@galton.uchicago.edu](mailto:jgrodriquez@galton.uchicago.edu). If you wish to subscribe to our email list, please visit the following website:  
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