

SCS 2017: Longitudinal and Nested Data

Day 1 – Part 1

The Fundamental 2 x 2 Table of Statistics

*– or when Statistics seem to lie they are
usually just answering a different question*

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Day 1 – Part 2

Statistical Reasoning with Ellipses: The Data Ellipse

Simple regression, the regression paradox,
the anatomy of outliers: fit vs. leverage,
significance at a glance

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Day 1 – Part 3

Statistical Reasoning with Ellipses: The Beta Ellipse

Simpson's Paradox, Confounders and Mediators,
Variance Inflation, Perils of Statistical Model Selection,
Added Variable Plots

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Day 1 – Part 4

Getting Started with R and R Studio

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Mixed Models with R: Hierarchical Models to Mixed Models

– two equivalent views of nested data that reveal different and important features

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