# Statistics on Trial(s)

# Frequentist vs Bayesian Inference

*– Objective p-values versus subjective posteriors*

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

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

Day 1 – Part 4

# Getting Started with R and R Studio

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 1

# Mixed Models with R: Hierarchical Models to Mixed Models

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

# Mixed Models with R: Longitudinal Data Analysis

*– the special roles of time*

# Mixed Models with R: Non-linear Models

# – Asymptotic Functions of Time