



THE UNIVERSITY OF
CHICAGO

DEPARTMENT OF STATISTICS

Statistics Colloquium

Andrew Gelman

Department of Statistics/Department of Political Science
Columbia University

“It’s About Time”

Monday May 6, 2024, at 11:30 AM

Jones 303, 5747 S. Ellis Avenue

Pre-Seminar refreshments will be served at 11:00 AM in Jones 303

Abstract

Statistical processes occur in time, but this is often not accounted for in the methods we use and the models we fit. Examples include imbalance in causal inference, generalization from A/B tests even when there is balance, sequential analysis, adjustment for pre-treatment measurements, poll aggregation, spatial and network models, chess ratings, sports analytics, and the replication crisis in science. The purpose of this talk is not to go over traditional time-series models, important as they are, but rather to consider how adding time into our models can change how we think about many different problems in theoretical and applied statistics.