**Title:** Modern Mediation Analysis

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**Abstract:** Mediating variables have a long and important history in many research areas because they describe how and why two variables are related. This presentation describes the questions mediation analysis can help answer using examples from etiological and intervention studies. The statistical analysis of the single and multiple mediator models demonstrate several controversial issues in significance testing and confidence interval estimation. Recent results on the best method to assess mediation are summarized. New models for causal inference based on potential outcomes are described and compared to traditional methods. The presentation ends with future directions in mediation theory and statistical analysis.


- Technical Level: Introductory
- Focus: Theory
- Data: None
- Methods: Conceptual


- Technical Level: Intermediate
- Focus: Theory
- Data: Simulated
- Methods: Simulation


- Technical Level: Advanced
- Focus: Theory
- Data: Simulated
- Methods: Simulation
If persons are interested in the following mediation papers let me know. Some of these papers can be found at my website, http://ripl.faculty.asu.edu/.

*indicates a student