

Nested Analysis

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Regression and Case Studies: Looking Back

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- Causal hypotheses

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- Case Selection

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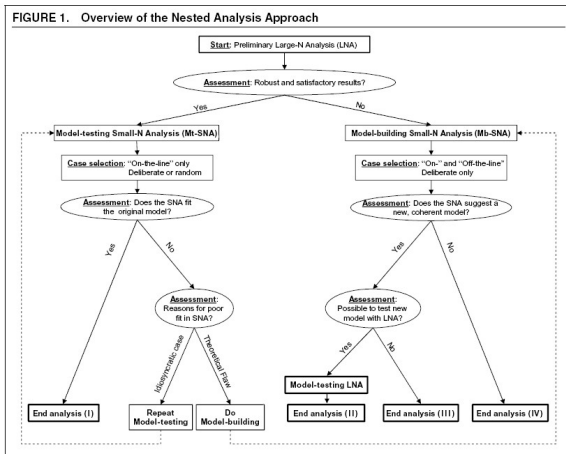
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Regression and Case Studies: Looking Back

- Causal hypotheses
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- Quantitative designs to test case-study causal pathway findings

Nested Analysis

FIGURE 1. Overview of the Nested Analysis Approach



Nested Analysis: Assessing LNA

...it is not possible to provide absolute criteria for answering the question about the robustness of the LNA results because subjective assessments about the state of knowledge and what constitutes strong evidence weigh heavily. (pg. 439)

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Nested Analysis: Assessing LNA

- Coefficient estimates help support inferences about fit between results and theory (?)
- “...the actual scores of the cases should be plotted graphically relative to the predicted scores from the statistical estimate,¹¹ and with proper names attached.” (pg. 439)
- `identify(labels=XXX)`

Nested Analysis: SNA

- The SNA should be used to answer those questions left open by the LNA either because there were insufficient data to assess statistical relationships or because the nature of causal order could not be confidently inferred. (pg. 440)

Model Testing SNA

- Almost inevitably, strong questions arise about causal order, heterogeneity of cases, and the quality of measurement. SNA provides an important opportunity to counter such charges. (pg. 442)

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- Make sure the cause happened before the effect.

Model-Building SNA

Case Selection

- For mt-SNA, choose typical cases that are also as extreme on X as possible.

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- For mt-SNA, choose typical cases that are also as extreme on X as possible.
- For mb-SNA, choose deviant cases or also extreme cases on Y .

Conclusions of SNA

- Idiosyncratic outliers?

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- Idiosyncratic outliers?
- Omitted variables.
- All is well.

New LNA?

- If idiosyncratic outliers, rerun LNA deleting those cases.

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- If idiosyncratic outliers, rerun LNA deleting those cases.
- If omitted variables, rerun LNA adding those variables.

Try our own techniques...

- ...on the paradigmatic example of nested analysis: Lieberman's book on taxation, race, and regionalism.