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THE HEBREW
UNIVERSITY
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Research Methods in the Study of Europe and Germany (54699)

Lesson 6

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Structure of the Class

1. **Assignment Testing Hypotheses**
2. **Research Design**
3. **Methodology**



Testing Hypotheses



Testing Hypotheses

- **Predictions** from theory, to be confirmed or falsified.
- Hypotheses explain relationship between variables:
How / Why IV affect DV.
- **The 3 conditions:**
 1. Is there a relationship between the variables? (*correlation*)
 2. Is this a real relationship or a fake relationship? (*alternatives*)
 3. Does the independent variable (A) precede the dependent variable (B) in time? (*causal mechanism*)



Assignment – From R.Q. to Hypotheses

- Develop 3 research questions on topics you consider “puzzling”.
- Then, you are asked to propose 3 potential explanations for each of the questions ("hypotheses"), based on the rules we learned.

Example from student in 2022-2023:

- *What are the reasons for Germany's implementation of the Open-Door-Policy towards Syrian refugees between the years 2015-2021?*
 - *Hypothesis 1:* Germany's (and Chancellor Merkel's) own experience with a “refugee crisis”, relating to the separation between East and West Germany.
 - *Hypothesis 2:* Feelings of guilt relating to the Holocaust and the need for making amends.
 - *Hypothesis 3:* Germany's urgent need for workforce amid its aging population.



The Scientific Process

- Developing an idea for research - PUZZLE
- Elaborate a question to answer – RESEARCH QUESTION.
- Consolidate expected responses - HYPOTHESES
- Define strategy – RESEARCH DESIGN & METHODOLOGY
- DATA COLLECTION & ANALYSIS – are findings consistent with hypothesis?
- CONCLUSIONS - Change and expansion? Is it possible to confirm the hypothesis? Make changes? Further research?



Research Design



Research Design

1. The research design is the way(s) in which we plan to answer the research question we set, and test the hypotheses we formulated.
2. Different designs have different advantages and disadvantages.
3. In light of this, the trend in research in recent years is to combine different designs/methods and thus benefit from the advantages and compensate for the disadvantages of each of them.



Research Design

Two main characteristics of a well-designed research:

- *Internal Validity*

High internal validity indicates that the findings are accurate and correct in the examined case. We measured our variables properly, that we found real and not simulated/false relationships.

- *External validity:*

Can our findings be generalized to a larger number of cases? If we did an experiment on a group of students, is there a good reason to believe that what we found is also true for other people?



Research Design

Two main types of research designs

- *Qualitative Research*

Research based on a small number of cases and verbal analysis.

- *Quantitative Research*

Studies based on a large number of cases and quantitative/statistical analysis.



Research Design

- Other types of research:
 - *Experimental versus observational:*
 - Do researchers have control over the research?
 - Do they randomly assign subjects to experimental and control groups?
 - Do they manipulate the independent variable to see effects on the dependent variable?
 - Examples?



Research Design

- Other types of research:
 - *Variable-based studies case-based studies:*
 - Do we want to know a few things about many cases? Or a lot about a few cases?
 - Are we interested in the level of variation of the dependent variable and its relationships with IV? Or interested in complexity, in detailed causal mechanisms, in non-hypothesized new insights.
 - Examples?



Methodology



Variables / indicators - Conditions

1. Conceptual clarity

2. Reliability

3. Validity

a) Internal

b) External



Conceptual clarity

- Good measurement starts with clear, well-defined concepts.
- Vague concepts lead to poor measurement:
 - Unclear.
 - Ambiguous
- That is why it is important to define well the concept being tested (conceptualization + operationalization).



Reliability

- **Consistency (will give us the same value in every measurement).**
- **Generally relevant for 3 situations:**
 1. Several indicators for the same variable (ex. political positions)
 2. The same index tested at different points in time.
 3. The same index is coded by different people (inter-coder reliability).



Validity

- **How “true” the measurement is (of what it is intended to measure)**
 - *Content validity*: how comprehensive the indicator is – includes all aspects of the concept? (ex. Democracy)
 - *Construct validity*: How well does the indicator measures what it is intended to measure? (the higher the correlation, the higher the validity).
- **Internal & External Validity.**



KEY DIFFERENCES

Validity

vs

Reliability



Wrapping Up

When reading/writing research, ask yourself:

- ✓ Are the key concepts clearly defined? Where did the definitions come from?
- ✓ Is it possible to find or think of alternative definitions for the same concept? Does the concept contain the right number of aspects?
- ✓ What is the unit of analysis? What is the measurement scale? Is this the best scale? Why or why not?
- ✓ Are the measures of each concept reliable? Valid?



Types of Methods in Qualitative Research

1. Case studies
2. Process tracing.
3. Comparative analysis.
4. Content analysis
5. Discourse analysis / Framing analysis.
6. Network analysis



Next Class

- **Lesson 7)**
 - Gathering sources and analyzing data



Thanks!

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