

RESEARCH METHODOLOGY

EE469 Seminar in Development Economics/
EE470 Seminar in Human Resource Economics
Semester 2/2021

Recap: Research Proposal Components

- Research topic
- Research problem
- Research question/Hypothesis
- Literature review
- Theoretical/conceptual framework
- Methods

Literature Review I

- A survey of studies that have been written about a particular topic, theory, or research question.
- Purpose of literature review (Anderson, 1997):
 - Become familiar with the 'conversation' in the area of interest
 - Identify an appropriate research question
 - Find out the nature of previous research and issue related to the research question
 - Find evidence in the academic 'conversation' to *establish a need for the proposed research*

Literature Review II

Steps to writing a literature review:

1. ***Gathering sources***

- Focus on the topic
- Read with a purpose: isolate key themes or issues related to your topic

2. ***Evaluating sources:***

- Consider credentials and arguments/evidence of each source
- Compare sources and come up with conclusions and gaps or omissions

Literature Review II

3. *Writing a literature review*

- **Introduction**

- ✓ Identify topic and its significance
- ✓ Conclusions based on the analysis and synthesis of the literature

- **Body**

- ✓ Discuss and assess previous works based on *specific organization principles*
 - **Theme**: explain key themes or issues**
 - **Methodology**: discuss studies with different approach
 - **Chronology**: historical changes are central to topic

- **Conclusion**

- ✓ Summary and how you research will fill the gaps

Literature Review III

To write a good literature, you should:

- Group **similar information** together
- Show the **relationship** between the work of different researchers
 - similarities or differences?
- Indicate the **position** of the work in the research area history
- Move from a **general** discussion of the research area to the more **specific** area that is closer to your research

Source: http://web.pdx.edu/~bertini/pdf/literature_review.pdf

Example: “Bad” literature review

“Previous studies have looked at the issue of ‘...’ Their findings and suggestions are reviewed here.

Author A (xxxx) developed a model to investigate... It was proved that....

Authors B and C (xxxx) studied... Their results suggested that...

Author D (xxxx) conducted experiments.. It showed that...”

Source: Adapted from http://web.pdx.edu/~bertini/pdf/literature_review.pdf (p.3)

Good example: **Outline** of a literature review on monetary rule and exchange rate (ER) uncertainty:

1. Theoretical literature

- 1) No ER uncertainty
 - I. No ER response
 - II. With ER response
- 2) With ER uncertainty
 - I. No ER response
 - II. With ER response

2. Empirical literature

- 1) Single Equation estimation
 - I. Industrialized country
 - II. Emerging country
- 2) Structural estimation
 - I. Industrialized country
 - II. Emerging country
- 3) Empirical studies about Thailand
 - Chronological order

Source: Presentation of Kornchanok Lueangwilai's thesis titled "A Monetary Policy Rule and Exchange Rate Uncertainty: A Structural Investigation Case of Thailand," at the Graduate Workshop (25 May 2012)

In-class Exercise & Homework

- Exercise 1: Review three papers selected from the articles related to Covid-19 and learning loss collected by the class, and identify the structure of literature review of article.
- Exercise 2: Based on the papers you have found for your literature review, identify the key themes/issues in each paper. Discuss possible research question related to this topic.

Theoretical/Conceptual Framework

- Identify tentative generalizations, concepts, or frameworks from past research
 - Provide the rationale for research to be performed
- Use of economic models:
 - Give predictions
 - Provide explanation of cause and effect
 - Use as a basis to develop hypothesis
- Example?

Methodology vs. Methods

- **Methodology**
 - Is a way to systematically solve the research problem
 - Provides the principles for organizing, planning, designing and conducting research
 - Is a part of topic selection
- **Methods**
 - Specific details and/or procedures to accomplish a task (i.e. techniques)
 - Constitute a part of methodology

Broad Groups of Research Methods

- Experimental vs. descriptive
 - *Experimental*: conduct experiments to manipulate conditions to measure the effect on Y
 - *Descriptive*: obtain data on conditions as they exist
- Quantitative vs. qualitative
 - *Quantitative*: employ statistical techniques e.g. regression, variance analysis, and estimation
 - *Qualitative*: employ interviews and observations
- Positivist vs. postpositivist
 - *Positivist*: identify a question, collect data, formulate hypothesis, and test it empirically
 - *Postpositivist*: allow alternative interpretations and develop alternative theories

Research Methods in Economics

- Theoretical Research
 - Derive equilibrium conditions
 - Use diagrams, equations, or logical statement for theoretical deduction
- Applied Research (use induction)
 - Statistical and econometric analysis
 - Calibration and computations of system of equations
 - Strategic analysis
 - Experimental analysis

References

- Books:

- Davis, G. B., & Parker, C. A. (1997). *Writing the Doctoral Dissertation*. New York: Barron's Educational Series, Inc.
- Wisker, G. (2008). *The Postgraduate Research Handbook*. London: Palgrave Macmillan.

- Website accessed:

- <http://ctl.utsc.utoronto.ca/twc/sites/default/files/LitReview.pdf>
- http://web.pdx.edu/~bertini/pdf/literature_review.pdf
- <http://www.writing.utoronto.ca/images/stories/Documents/literature-review.pdf>
- <http://www.gwu.edu/~litrev/index.html>
- http://www.hull.ac.uk/php/ecskrb/RME/Research_Method_workbook.pdf

Exercise

- Study the selected article and identify the following:
 - Research questions
 - Significance of the problem
 - Literature, gap in the literature, contribution of the study
 - Conceptual framework
 - Data and methods