



Universitat
Pompeu Fabra
Barcelona

Research Methodology

Meta-Research Assignment

Davinia Hernández-Leo & Ishari Amarasinghe

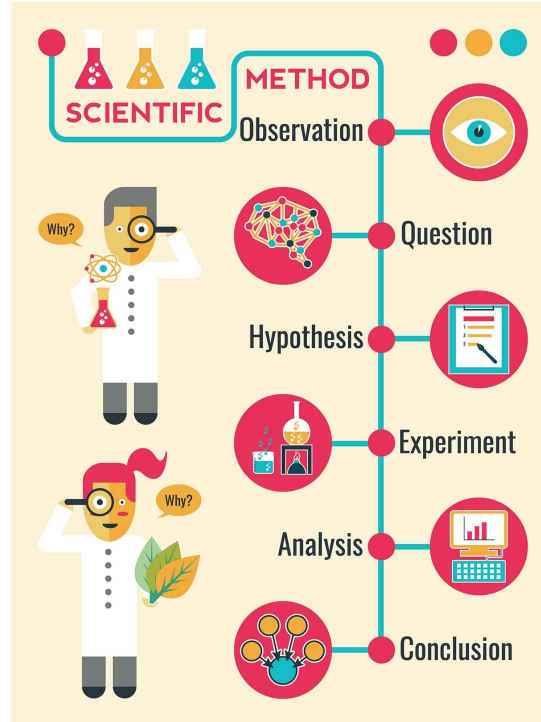
Goal: Introduce the MERE paper and its sections to understand how to proceed with the work.

1. Introduction to key concepts.
2. Practice and reflection.
3. Introduction of MERE 2025 topics.
4. Drafting the MERE proposal.

What's the purpose of research?

- Answering Research Questions.
- Gaining deeper understanding of a specific phenomenon, case, or context.
- Providing solutions to reduce, diminish, or avoid the problem.

Different phases to conduct research



Source: simplypsychology.org

- Observation
- Formulation of questions
- Formulation of hypothesis
- Experimentation
- Analysis
- Formulate conclusions

Where would you place these practices?

- Documentation
- Sample recruiting
- Request for ethical approval
- Writing Report
- Drink a margarita
- Piloting research instruments
- Data extraction
- Listing and editing references
- Write paper (a) report
- Go for a walk
- Verify the hypothesis
- Manage references
- Construct research instruments
- Define variables
- Drink one more margarita
- Data curation
- Choose a case study
- State a relationship between variables.
- Interview people
- Coding data
- Create graphs

[Join at menti.com](https://www.menti.com)

[Use code 1372 6532](https://www.menti.com)



What are you expected to do:

- a. Conducting a small research work/experiment
- b. Write a research paper
- c. Submit the paper for a conference (MERE 2025)
- d. Evaluate the research work of your colleagues
(*peer review*)
- e. Improve the draft paper and re-submit
- f. Present your paper at the MERE Conference 2025

- 1. AI tools and searching information**
- 2. AI tools to formulating research**
- 3. AI tools and Data Analysis**
- 4. AI tools to report Results**

How can the use of AI impact the researchers' works and the research practice?



- What do you think about this topic?
- Is it close to your reality?
- How can “the situation” impact the **research practices and Science development?**



SOME USEFUL RESOURCES

A Curated List of resources: researching on AI.

Enter the list here

Download the *Final Project Formulation Template* from Aula Global and use it for your own work.

Assignments:

1. Examples of students' papers ([2020](#), [2021](#), [2022](#), [2023](#), [2024](#)) in UPF repository
2. Book your tutoring session ([Doodle](#))
3. Complete the problem formulation layout and Assignment 5 for a better feedback.