

Discipline: Methods

1. Language

English

2. Title

Meta-Analysis for Management Research

3. Lecturer / Referent

Prof.dr Tammo H.A. Bijmolt

4. Date and Location

June 16-19, 2025

Hotel Munte
Bremen

5. Course Description

5.1 Abstract and Learning Objectives

In all disciplines within management research, numerous relationships (effects of some X on a specific Y) have been studied multiple times, and summarizing the existing empirical findings may result in an important scientific contribution. For example, one could determine the overall effect of a particular marketing instrument (price, advertising, etc.) on sales and whether the effect depends on market characteristics, study design, or other moderators. Meta-analysis encompasses a broad set of methods to conduct a systematic, quantitative review of the literature in order to derive empirical generalizations. As such, conducting a meta-analysis is an excellent project for a PhD student or other (junior) researcher having to review the literature on a particular topic.

This workshop will deal with methods for conducting a meta-analysis. The purpose is to train the participants to conduct and publish a high-quality scientific meta-analysis within the broad field of management research. The seminar will cover the entire meta-analysis research process, from problem formulation, literature search, coding of the effects, analysis, to reporting and publishing the findings.

The emphasis is on knowledge and skills needed to conduct a meta-analysis, not only on the statistical details. All steps of the meta-analysis process (including the statistical analyses) will be demonstrated and practiced in assignments during the workshop. In addition, the usage of AI for meta-analysis will be discussed. All topics will be illustrated by means of actual meta-analysis examples. Participants will be informed about relevant literature (textbooks and journal articles) and software supporting meta-analysis projects. In particular, most analyses will be demonstrated using R; in particular the package metafor.

5.2 Content

Topics that will be covered include:

- Role of replications and empirical generalizations in science
 - Why conduct a meta-analysis?
 - When to conduct a meta-analysis?
 - Identifying a topic for a meta-analysis
 - Importance of replication studies
- Overview of approaches to conduct meta-analysis
- Collecting and selecting publications
 - Literature search
 - Coding of studies
 - Usage of AI
- Analyzing effect sizes:
 - Publication bias (causes, consequences, tests, corrections)
 - Type of effect sizes
 - Transformations of effects
 - Within- and between study variation
 - Homogeneity tests
 - Overview of potential moderators
 - Meta-regression, random- and fixed-effects
 - Multi-level meta-regression
 - Corrections for study artifacts
 - Structural equation modeling approach
 - Using meta-analysis methods within a single publication/paper
- Using meta-analytic findings: the next steps in scientific progress.
- Reporting and publishing meta-analytic findings

5.3 Schedule (including start and end time)

This is a four-day workshop, with sessions 09.00-12.00 and 13.00-16.00 (with a short break in both sessions, and lunch 12.00-13.00) each day; except that the session on Thursday afternoon ends around 14.00.

5.4 Course format

This workshop contains lecture-type sessions and sessions in which participants can practice and work on assignments.

6. Preparation and Literature

6.1 Prerequisites

Knowledge of basic statistical methods like t-tests and regression analysis is essential. Experience with the software package R would be very helpful. If a participant has no experience at all with R, it is highly recommended to take a course (e.g. on-line by Datacamp.com), read a textbook, or otherwise learn the basics of working with R.

6.2 Essential Reading Material

None

6.3 Additional Reading Material

The following textbook on meta-analysis is highly recommended: Borenstein, Hedges, Higgins, and Rothstein (2021), Introduction to Meta-Analysis, Second edition; Wiley. In addition, a series of papers on meta-analysis will be discussed and made available during the workshop.

6.4 To prepare

Install R and RStudio on your computer, and make sure that you are familiar with the basics of R, see 6.1. In addition, each participant should collect and read three articles presenting a meta-analysis in his/her own discipline.

7. Administration

7.1 Maximum number of participants

20

7.2 Assignments

Yes, multiple assignments (probably seven) on the various steps in the meta-analysis process.

7.3 Exam

Attendance, active participation, presentations, and successful finishing the assignments.

7.4 Credits

The course corresponds to a scope of 6 LP/ECTS.

8. Workload

Working Hours	Hours
Preparations (R, meta-analysis papers)	30
Active participation	50
Completing the assignments	100
TOTAL	180 h