



**Dipartimento
di Economia**

MINICOURSE

META-ANALYSIS IN ECONOMICS

29 SEPTEMBER 2025
9:00-12:00, 14:00- 17:00
AULA 13A
VIA SILVIO D'AMICO, 77

Prof. Dr. Sebastian Gechert
(Chemnitz University of Technology and FMM Fellow)

Seminar content:

This course provides a PhD-level introduction to meta-analysis in economics. It consists of lectures on meta-analysis methods, discussion of their applications, and interactive exercises. Attention is also given to recent advances in the field. After completion of the course, participants should be able to conduct their own meta-analysis research project.

Morning Session

- 1. Why: motivation and background**
 - a. The appeal of research synthesis
 - b. The 'Replication & Credibility' crisis
 - c. P-hacking and publication selection bias (PSB)
- 2. What meta-analysis can do**
 - a. Research synthesis and explanation of heterogeneity
 - b. Detection and correction of p-hacking and PSB
- 3. How to conduct a meta-analysis**
 - a. Preparations
 - b. Data collection
 - c. Tests and regression analysis

Prerequisites:

Students are expected to have taken prior econometrics classes and to know some basic regression analysis. Also, they should have STATA or R installed on their laptops, either by buying a 6-month STATA license for \$48 or by downloading it from your university if available.

Afternoon Session

- 4. Exercise session: Meta-regression analysis with STATA and/or R**
- 5. Recent advances and limitations of meta-analysis**
 - a. AI tools in meta
 - b. Test bundles
 - c. Pre-analysis, pre-registration and transparency of metas
 - d. Evidence maps and living evidence



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Short Bio

Sebastian Gechert is Professor of Macroeconomics at Chemnitz University of Technology in Germany and an Associate Editor at the Journal of Economic Surveys. He is a frequent consultant to international institutions, like the European Central Bank (ECB), the World Bank Group (WBG), the European Parliament as well as German federal and regional parliaments providing expertise on fiscal, monetary, and environmental. Sebastian is a member of the steering committee of the Forum for Macroeconomics and Macroeconomic Policies (FMM), which organizes the largest annual academic conference on macroeconomics in Europe. He is also a member of the steering group of the Meta-Analysis in Economics (MAER) network. His research and teaching focuses on the interplay between macroeconomic policies, consumer behavior, the environment and inequality. Sebastian has led several funded research projects, including from the European Macro Policy Network, the German Federal Ministry for the Environment, the Austrian Academy of Sciences and the Hans-Böckler-Foundation. His work has been published in leading economic journals like the Journal of Monetary Economics, Review of Economic Dynamics and the European Economic Review.