Associazione Italiana di Psicologia

Dottorato di Scienze Umane
Università di Verona

Applied Psychology Measurement Lab
Misurazione e Ricerca in Psicologia Applicata
Università degli Studi di Verona

PROGRAM

Meta-analysis for psychological research

DISTANCE COURSE, 12 - 14 July 2021

Aims and topics

Meta-analysis is a set of statistical method to integrate and evaluate the results of several combinable independent studies. The use of these statistical methods is growing in psychology and in organizational psychology research as a powerful tool to explain heterogeneity between the results of combinable independent studies, if any, and replicability of results. In sum meta-analysis is a quantitative approach to reviewing research literature in a specific area.
The aims of the course are: grow awareness on issues related to replicability of results and therefore on the benefits of a meta-analytic approach; recall theoretical and applied issues related to linear models with random effects; offer theoretical and applicative skills to build and interpret meta-analysis results with R and Jamovi; offer some examples of meta-analysis in psychological research.
The course will last three days and will be held online. Regarding teaching methods, the course will combine instructor presentations, reading and analysis of published studies, guided practical exercises, and autonomous practical exercises.
The course will be open to national and international PhD students and Faculty members, in need to improve their analytic skills in the area of meta-analysis. It will be organized in two sections:

- half-day preparatory statistical course to give the basic understanding on the statistical packages R and Jamovi, and on the required basic statistics to attend effectively the second section;
- 2-day and half-day course on Meta-analysis.

Contents:

The main contents of the course are as follows:

	Morning 9.00 – 13.00 **Theoretical lessons**	**Afternoon 14.00 – 18.00** **Exercises**
Monday 12		
	- An introduction on Meta-analysis and the issue of the results replicability - Build replicable studies: the design analysis	- Introduction to R and Jamovi
Tuesday 13		
	- Measures of effect size - Estimate of the effects and interpretation of results	- Exercises in R and Jamovi
Wednesday 14	- The package metaphor - Meta-regression and publication-bias - Graphical representations	- Exercises in R and Jamovi - Discussion and conclusion on the exercises

Note. The program could be slightly changed during the course to address participants' needs.

Lecturer:
Prof. Massimiliano Pastore, University of Padua, Italy

Teaching and tutoring staff:
dr. Elisa Menardo and dr. Margherita Brondino, University of Verona, Italy

Organizational details:
Participants should have on their computer / laptop R and Jamovi (downloadable by free respectively at: https://www.r-project.org/ and https://www.jamovi.org/).

Participants:
Minimum 10 and maximum 25 PhD students, research fellows and Department members.

Fees:
Senior AIP members: euro 120
Junior AIP members: euro 80
No AIP members: euro 250
University students: euro 100
Free for max 2 PhD students of the Human Science PhD school, University of Verona

Application:
The applications will be selected on specific requirements. **DEADLINE: 6th JUNE 2021**
To apply fill in the form and send it to aip.psiorganizzazioni@gmail.com with the object "application for the Meta-analysis course".

Selection criteria for applications
Participants' selection by the scientific committee will be based on three criteria:

a) **Career**. Priority to younger researchers (PhD students, research fellows and post doc, temporary assistant professors, researcher with tenure);
b) **Research area**. Priority to researchers who work on organizational psychology topics;
c) **Researchers' university**. The selection will try to facilitate the participation of the greater number of universities (Doctoral schools and Departments).

Scientific Committee
Margherita Brondino, University of Verona
Dina Guglielmi, University of Bologna
Monica Molino, University of Turin
Margherita Pasini, University of Verona

Organizer Committee
Margherita Brondino, University of Verona
Monica Molino, University of Turin