

3rd BAYESIAN STATISTICAL ANALYSES

FOR THE HUMAN, SOCIAL
AND COGNITIVE SCIENCES



BASIC
NPSY



We invite applications from PhD students, post-doc and researchers to attend at the Third Edition of the Summer School on “BAYESIAN STATISTICAL ANALYSES FOR THE HUMAN, SOCIAL AND COGNITIVE SCIENCES” jointly organized by the NPSY-Lab.VR, at the Department of Human Sciences, at the University of Verona, and the BASIC-NPSY Research Group.

The use of Bayesian statistics is often claimed to be more widespread and known in the realm of cognitive sciences. However, this approach may be misunderstood and its application difficult.

The goal of this summer school is to start from the basics of Bayesian Statistical Analysis, to give a comprehensive knowledge of Bayesian Hierarchical Multilevel Methods, and how to get statistical inferences from them.

The program in-brief is the following:

June, 5th: Bayesian logic and statistical foundations.

June, 6th: Bayesian Linear model analysis with JASP and the BayesFactor package.

June, 7th: Bayesian Hierarchical Multilevel Models with the brms package.

June, 8th: Bayesian Design Analysis and Bayesian Sensitivity analysis.

June, 9th: Creating your own Bayesian statistical analysis: the use of Stan in statistical analysis.

The lecturers are the following:

Angelika Stefan – Universität der Bundeswehr, München

Stefano Coretta – University of Edinburgh

Hykel Hosni – Università degli Studi di Milano - La Statale

Daniele Luigi Romano – University of Milan – Bicocca

Giorgia Tosi – University of Salento and University of Milan – Bicocca

Massimiliano Badino – University of Verona

Valentina Moro – University of Verona

Fabio Aurelio D'Asaro – University of Verona

Michele Scandola – University of Verona

Key Information

Location: *University of Verona, Verona, Italy* **Period:** *Monday June 5th to Friday June 9th, 2023*

Contact: *bayeshsc@ateneo.univr.it*

Poster: *Recommended but not mandatory*

Student/PhD candidate fee

Post-doc/Researcher fee

Early bird (before March 20th): €100

Early bird (before March 20th): €200

Late bird (until end of April): €150

Late bird (until end of April): €300

Notification of acceptance: *May 15th, 2023*

The rate includes the tuition fee, course materials, and coffee/tea breaks.

Joining the Summer School, participants will have the possibility to present an original contribution within a poster session format (preferably – but not compulsory – somehow Bayesian-related), which will be evaluated for the best poster prize! This is not mandatory but can be a great opportunity for all the students.

In order to ease the teacher-students contact, only a maximum of 30 participants will be admitted. Students approaching this summer school must have previous knowledge of statistics and programming in the R statistical framework.

Further information concerning the detailed program and how to apply are available at the website:

<http://sites.hss.univr.it/bayeshsc/>

Deadline for applications April 30, 2023.

Each application must be in English and should include

1. a short CV – max two pages;
2. a motivation letter (max 500 words);
3. fill this questionnaire (<https://forms.office.com/e/YfawKwNQbv>)
4. – optional but recommended – an abstract (max 350 words) concerning the poster you intend to present at the summer school (check the website for the template).

Applications should be sent at *bayeshsc@ateneo.univr.it*

Participants will be selected based on participants' CV, motivation letter, poster abstract, research interests, and balance within the group regarding gender and geographical origin, with a preference for profiles with R experience. Incomplete applications and applications presented in languages other than English will not be considered.

PLEASE CLEARLY STATE YOUR INSTITUTION, ITS ADDRESS, COUNTRY AND OFFICIAL EMAIL IN YOUR CV.

Notification of decisions will be sent to applicants via email the May 15, 2023.

Participation fees:

- Students and Ph.D. students: before March 20 - 100 €; until April 30 – 150 €
- Post-docs and researchers: before March 20 - 200 €; until April 30 – 300 €