



Erasmus+



BLENDEN INTENSIVE PROGRAMME (BIP) 2024

Host institution: University G. d' Annunzio of Chieti-Pescara (Italy) - UdA, Department of Neuroscience, Imaging and clinical sciences (DNISC)

Partners' institutions: Stockholm University (Sweden) - SU, University of Granada (Spain)- UGR

Structure: two sessions (online – in presence in Chieti)

Students participating in the mobility: at least 15 students from abroad (7-8 students from each host university)

Number of ECTS provided: 3

Starting date: April 29

Blended Intensive Programs (BIPs) are intensive transnational study programs of short duration, characterized by activity to be carried out in presence (minimum 5 days) and activity to be carried out online. A BIP is therefore an educational initiative including a virtual component and an in-presence component that can be assimilated to a Summer/Winter School. The initiative must include at least 3 partners Institutions.

The idea of the proposed BIP 2023-24 is to stimulate a critical discussion about the issues of reproducibility and open science in cognitive psychology/neuroscience research. In particular, students from the three countries will be involved in the acquisition and analysis of experimental data of the same cognitive paradigm and will reflect on potential sources of variability/instability influencing the results. The main topic will concern the potential role of cross-cultural influences on data reproducibility, which will be addressed by comparing results across laboratories. However, the program will also aim at fostering critical thinking on all the possible sources of inter-subject/inter-group variability (context, instrumentation, etc.) as well as on open science debate (e.g., providing information about available databases).

Title: Fostering critical thinking in psychological science

First session (online):

Opening day: April 29

h 9AM-12AM

- **INTRODUCTION:** General information about the BIP (Carlo Sestieri & Giorgia Comitteri, UdA)
- Group self-presentation (Partners, staff and students)
- **SEMINAR:** "Reproducibility and open science" (Stephan Wiens, SU)

Second day: April 30

h 3PM-5PM

- **SEMINAR:** "Mental effort and the Effort Paradox-first part" (Michael Inzlicht, Toronto)
- **SEMINAR:** "Inter-individual differences and motor performance" (Israel Halperin, Tel Aviv)

Third day: May 2

h 9AM-11AM

- **SEMINAR:** "Study design and preregistration" (Rafael Roman Caballero, UGR)
- Instructions on research activities to be conducted at each individual site

Second session (in presence-Chieti): June 3-7 (~4 hours each day = ~20 hours)

Day 1: June 3

h 11-17

- Welcome greetings
- **LUNCH**
- Presentation of the three pre-registered projects
- **SEMINAR:** "Reproducibility issues and the Italian Reproducibility Network" (Cristina Zogmeister, Sapienza, Roma)

Day 2: June 4

h 9-13

- **PRESENTATION:** "Free resources for statistical data analysis: a free guide to JASP" (Claudia Greco, UdA)
- **DATA ANALYSIS:** Individual site databases (supervision by Ronald Van den Berg & Maria Giulia Tullo SU & UdA)

Day 3: June 5

h 9-13

- **DATA ANALYSIS:** Multi-site database (supervision by Ronald Van den Berg & Maria Giulia Tullo SU & UdA)
- **SEMINAR:** "Mental effort and the Effort Paradox-second part" (Michael Inzlicht, Toronto)

h 19-

Mid-BIP **APERITIF**

Day 4: June 6

h 9-13

- **SEMINAR:** "Effort and fatigue: cognitive and neurobiological theories" (Marika Berchicci, UdA)
- **SEMINAR:** "Cross-cultural approaches in social psychology" (Stefano Pagliaro, UdA)

- **SEMINAR**: "Using models to study individual differences in behavior" (Ronald Van den Berg, SU)

Day 5: June 7

h 9-13

- Result presentation and reflections
- Group critical analysis and discussion on Multi-Lab and multi-site results

h 15-

- Afternoon **TRIP** to a destination in Abruzzo and farewell **DINNER**

* Free (not mandatory) lab visits (fMRI, MEG, EEG, NIRS, TMS, EEG-TMS) as well as cultural tours in Chieti and Pescara will be organized during the afternoons of Day1-4, also according to the interest of the participants.

Final requirements/assessment:

- presence (at least 80% of the lesson hours)
- Group critical analysis and discussion on Multi-Lab and multi-site results