



HEIDELBERG
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SORBONNE
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DEGLI STUDI
DI MILANO



Course on computational psychiatry: Heidelberg 12.-14.5.2022

Focus topic: Reinforcement learning models on social learning

Topics – What will you learn?

In this three-day course, you will gain insights into the burgeoning field of computational psychiatry, its promises and pitfalls. The course consists of mixture of theoretical lectures on recent findings and practical sessions on programming (in Python).

Specifically, you learn the basics of how to use reinforcement models for analyzing behavioral datasets from human participants. You get an idea of how these models can help to understand psychiatric disorders. You gain hands-on experience with programming such models. Our example datasets cover experiments on social learning about other persons' character traits and preferences.

You also learn about how to work in transdisciplinary settings.

Date & location

12.-14.05.2022 at Heidelberg (Germany)

Deadline for registration: 01.04.2022

The full course will take place in person. The theoretical lectures (but not the hands-on programming) will be made accessible online via a live stream.

For up-to-date information, see <http://www.dnhi-lab.org/teaching>

A recognition of credits is envisaged (to be defined).

Logistics –Who can attend?

This international course is organized within the framework of the 4EU+ European University Alliance (<https://4euplus.eu/4EU-1.html>) and includes students and lecturers from three universities.

- Heidelberg University Hospital (Germany)
- University of Milan (UNIMI, Italy)
- Sorbonne University (France)



With the support of the
Erasmus+ Programme
of the European Union

No fees apply. Students of Sorbonne University (France) and of the University of Milan (UNIMI, Italy) can apply for funds covering costs for travelling and lodging.

The course is open to students across a wide variety of backgrounds including Medicine (with a particular focus on Psychiatry, Psychosomatic Medicine and Psychotherapy), Cognitive Science and Decision Making, Psychiatry Residents.

Students at different levels can attend (BSc, MSc, MD, Residents).

Registration – How can you sign up?

Write an email to Heike Hager comppsy psychiatry.PSYCH@med.uni-heidelberg.de stating:

- your university
- your field of study
- your level of study (BSc, MSc, MD, or PhD)
- if you want to apply for funding of your travelling and lodging costs (in this case documentation about average marks has to be provided)*
- Deadline for registration: 01.04.2022.

*Note: The University of Milan will cover travel costs for 11 students (5 residents in Psychiatry, 4 students of Medicine-last three years of course and 2 students of Cognitive Science and Decision Making). In case of more requests a selection will be made on the basis of average marks obtained by the students (if two students have the same average marks the youngest will be selected; for the residents of psychiatry in the first year of their course the average marks of the course of medicine will be taken into account).

Lecturers – Who is involved?

- Jun.-Prof. Dr. Christoph Korn (Heidelberg University Hospital, Department of General Adult Psychiatry)
- Dr. Franziska Baessler (Heidelberg University, Department for General Internal and Psychosomatic Medicine)
- Prof. Dr. Massimiliano Buoli (University of Milan, UNIMI, Department of Pathophysiology and Transplantation)
- Prof. Dr. Florent Pasquier (Sciences de l'éducation et de la formation, Sorbonne Université)
- Dr. Antonius Wiehler (Institut du cerveau et de la moelle épinière (ICM), Hôpital Pitié-Salpêtrière, Sorbonne Université)

Keynote speaker

- Prof. Dr. Paolo Ossola (Università di Parma, Department of Medicine and Surgery)



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