
Action Cognition & Computation

SS2021

Who are we?



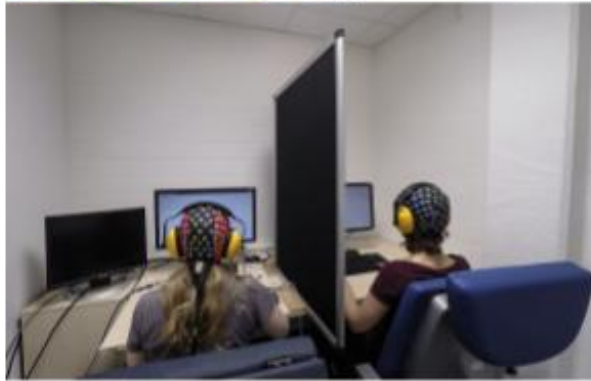
Ashima



Peter

We are the NBP!

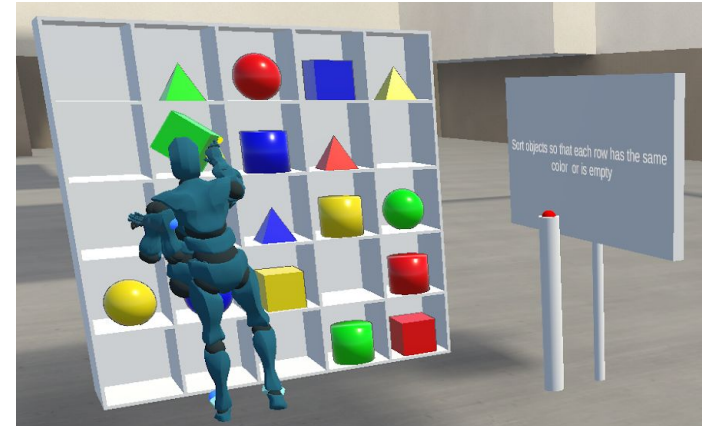
What do we do?



EEG



Eye-tracking



Eye-tracking in VR

We do experiments in mobile and lab setup

What is this course about?

- ❑ Consider this course a starter-pack for NBP research
- ❑ We offered this as a practical course in SS2019, SS2020 with weekly homeworks
- ❑ This is the first time we offer this course in an ONLINE AUTODIDACTIC format, which means...
 - ❑ You learn by yourself at your own pace
 - ❑ Not all of the content is up
 - ❑ Maybe there are gaps in explanations
- ❑ We need you to make this course better!

Learn data analysis of NBP related data

What will you learn?

- ❑ How to work with real physiological data
- ❑ How to make beautiful visualizations
- ❑ How to explore data
- ❑ How to formulate hypothesis
- ❑ How to test hypothesis
- ❑ How to collaborate on a research project
- ❑ And finally, **how to build an intuition towards research**

Everything you need to know to work with neuroscience data

Which tools will you use?



Seaborn

pandas

$$y_{it} = \beta^T x_{it} + \mu_i + \epsilon_{it}$$



The very basic tools to data analysis

What do we want from you?

- ☐ Be active
- ☐ Give us feedback
- ☐ Ask questions during the lecture
- ☐ Ask questions and offer solutions on studip forum
- ☐ Share what you learned with others (also on studip forums)



Make this a successful online offering that can be shared with people outside the uni

How can you pass the course?

- ❑ Attendance mandatory
- ❑ Actively participate in group work (groups of 4)
- ❑ We will meet online everyday.
 - ❑ **Morning: 10-12h** lecture, intro to day
 - ❑ **Afternoon: 13-16h** group work
 - ❑ **See off: 16h-17h** quiz
- ❑ To get a grade:
 - ❑ Submit a project as a group at the end of the semester
 - ❑ Deadline: 31st August 2021

Stay active!

Questions?

