neu270 - Neurocognition & Psychophysics

Module label: Neurocognition & Psychophysics  
Module code: neu270  
Credit points: 15.0 KP  
Workload: 450 h  
Used in course of study: Master's Programme Neuroscience > Background Modules  
Contact person: 

Module responsibility:
- Georg Martin Klump

Authorized examiners:
- Alle hier genannten

Module counseling:
- Christiane Margarete Thiel
- Ulrike Langemann
- Carsten Gießing

Entry requirements:

Skills to be acquired in this module:
- Neurosci. knowlg. Expt. methods + Independent research + Scient. literature + Social skills
- Interdiscipl. knowlg. Maths/Stats/Progr. + Data present./disc. + Scientific English Ethics

The aim of the module is the study of different aspects of psychophysics or neurocognition. Students participate in ongoing projects and gain a first insight into topical research.

Module contents:

Students have the choice of two basic streams:

Stream 1: "Neurocognition" comprises (i) an exercise “Introduction to MATLAB” [2 SWS], (ii) a lecture “Functional MRI data analysis” [2 SWS], and (3) a practical course [5 SWS] and a seminar “Experiments on Neurocognition” [1 SWS] including aspects of planning, performance and analysis of functional neuro-imaging studies using MATLAB based software.

Stream 2 "Psychophysics of Hearing" comprises (i) exercise “Introduction to MATLAB”, (ii) lecture and seminar “The sense of hearing”, and (iii) a laboratory project in which psychoacoustical experiments into the function of the auditory system are performed.

Reader’s advisory:

Links:

Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Reference text: Course in the second half of the semester
Regular active participation is required to pass the module

Modullevel: MM (Mastermodul)
Modulart: Wahlpflicht

Lern-/Lehrform / Type of program:

Vorkenntnisse / Previous knowledge:

Examination Type of examination
Final exam of module end of summer term 70% report or oral exam or written exam, 30% presentation (talk or poster)

Course type Comment SWS Frequency Workload attendance
Lecture 2.00 28 h
Exercises 2.00 28 h
Practical 6.00 84 h
Total time of attendance for the module 140 h