Opening Lecture MSc Cognitive Systems

Prof. Dr. Birte Glimm | Dean of Studies

Welcome

Prof. Dr. Birte Glimm
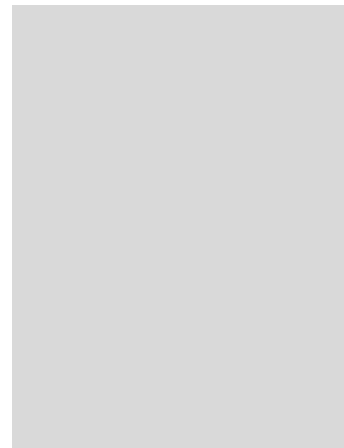**Dean of Studies**

Dr. Jens Kohlmeyer
Study Coordinator

Dr. Markus Maucher
Programme Counsellor

Prof. Dr. Marc Ernst
Head of Exam Board

Dr. Sandra Mann
Programme Coordinator

Dean of Studies

- Responsible for proper and complete course offerings
- First semester introduction
- Contact person if no one else (e.g. programme counsellor and examination board) can help

Dean of Studies
Prof. Birte Glimm

https://www.uni-ulm.de/in/ki/glimm/

Exam Board

- Advice and decision on recognition of equivalent academic achievements

- Extension of submission deadlines

- Approval of semesters off for practical work

- Compensation for disadvantages

- Contact: eb-cogsys@uni-ulm.de with documents according to
  https://www.uni-ulm.de/eb-cogsys

Prof. Dr. Marc Ernst
Head of Exam Board

Service Group Informatik (SGI)

- The SGI operates and maintains all computer facilities used for teaching in the computer science department
  - PC pools with software
  - Laptop workstations
  - SGI accounts with their own printing quota
  - Web services
    - Examination planning system
    - Student assistant exchange
    - Timesheet recording for assistants

Dr. Jens Kohlmeyer
Head of SGI

Ulm University

... after successful completion of a Cognitive Systems Master

Jina AI, Berlin

https://deepsafety.ai
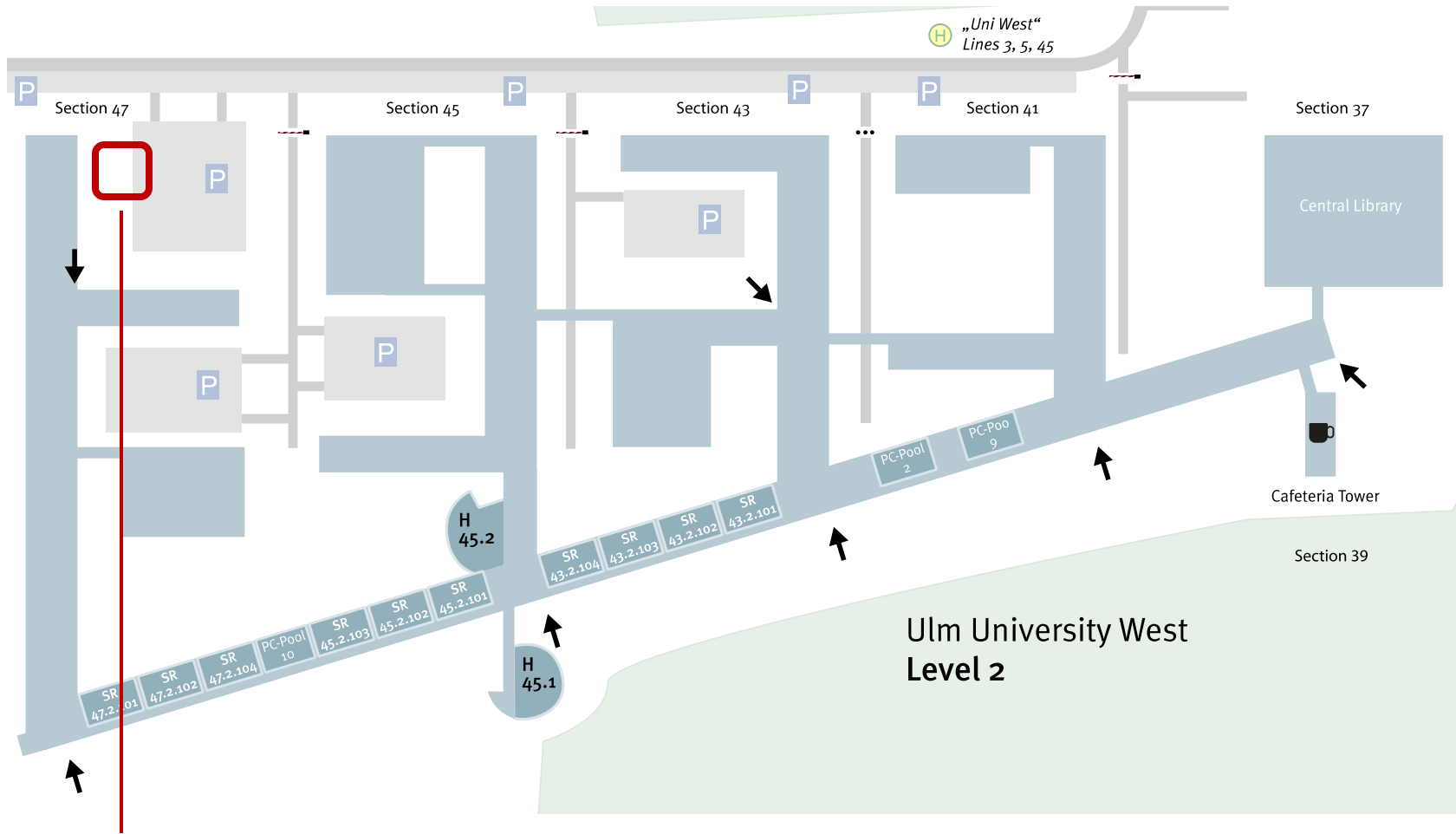
Apple Inc.

Mercedes-Benz AG

MSc Cognitive Systems

- Interdisciplinary programme from Computer Science and Psychology within one faculty – "under one roof" or on one hill …
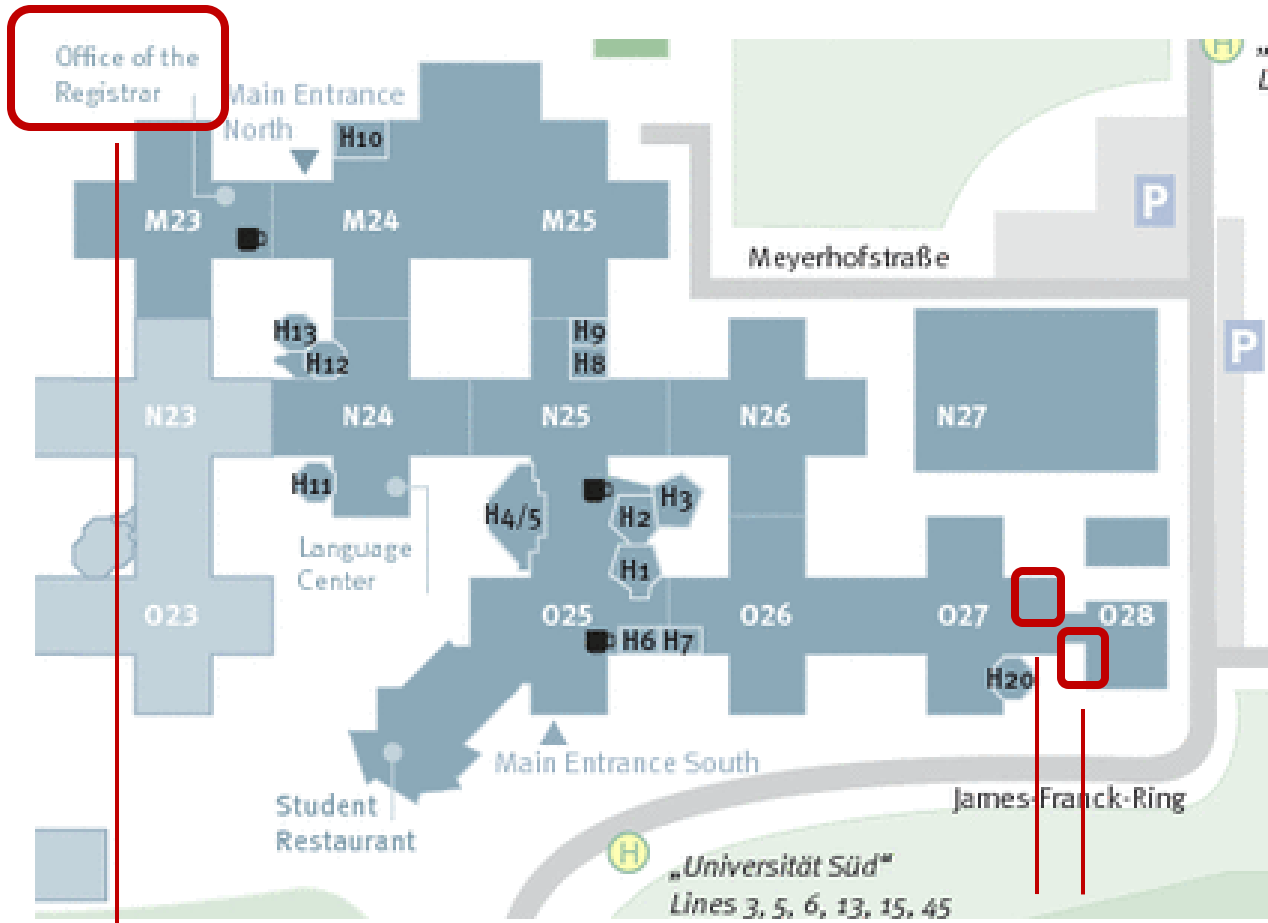
Main Campus Area – University West

Colloquium

Main Campus Area – University East

Studiensekretariat
(office of the registrar)

Welcome &
CogSys I

Cognitive Systems Website

https://www.uni-ulm.de/cognitive-systems/

Generic Structure of the Programme

Study Plan Master Cognitive Systems (FSPO 2024)

Compulsary/Compulsary Elective Modules	WSH	C/CE	Distribution of modules ECTS to subj.-spec. semesters				ECTS
			1	2	3	4	
Basic Subject	12						24
Fundamentals of Human-Machine Interaction	2L+2E	C	6				6
Fundamental Approaches to Cognitive Science	2L+2E	C		6			6
Foundations and Concepts of Cognitive Systems Modeling	2L+2E	C	6				6
Either							
Basic Subject Computer Science	4						
Introduction to Computer Science (for non-computer scientists)	3L+1E	C	6				6
or							
Basic Subject Psychology	4						
Introduction to Psychological Methods and Statistics (for non-psychologists)	2L+2E	C	6				6
Interdisciplinary Subject	12						18
Recent Developments in Cognitive Systems Research	2S+1M	C	6				6
Cognitive Systems I	3L+1E	C	6				6
Cognitive Systems II	3L+1E	C		6			6
Special Subject							24
Modules from Special Subject		CE		10	14		24
Applied Subject							24
Modules from Applied Subject		CE		8	16		24
Master's Thesis							30
Master's Thesis		C				30	30
			27	33	30	30	120

C - compulsary (Pflicht)

CE - compulsary elective (Wahlpflicht)

WSH - weekly semester hours (Semesterwochenstunden, SWS)

L - lecture (Vorlesung)

E - exercise (Übung)

M - mentorium

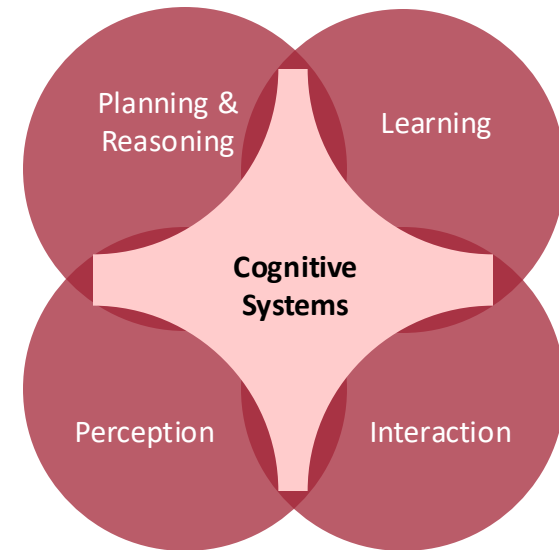S - colloquium

Short-Arm Y-Model

- One introduction module depends on the kind of bachelor's degree students have as entrance qualification
  - with BSc degree in Psychology take module
    Introduction to Computer Science (for non-computer scientists)
  - with BSc degree in Computer Science take module
    Introduction to Psychological Methods and Statistics (for non-psychologists)

- Note: you sign a "contract" which module you are assigned to
- Students with different background decide with Dr. Markus Maucher which selection fits best
  - Office Dr. Markus Maucher: O27/548

Either			
Basic Subject Computer Science	4		
Introduction to Computer Science (for non-computer scientists)	3L+1E	C	6
or			
Basic Subject Psychology	4		
Introduction to Psychological Methods and Statistics (for non-psychologists)	2L+2E	C	6

Basic and Interdisciplinary Subjects

- Modules within the Basic Subject introduce to the *foundations* of Cognitive Systems
  - What defines the field?
    ... as *interdisciplinary* topic
- Specific *functionalities*
  - Perception & Cognition
  - Learning & Memory
  - Planning & Reasoning
  - Interaction

- Modules Cognitive Systems I & II (2 semesters)
  - Introduction to topics, history, methods, modeling & technology
  - Cognitive Systems I: perception & cognition, learning & memory
  - Cognitive Systems II: planning & reasoning, interaction & communication (summer)

Colloquium Recent Developments in Cognitive Systems Research

- Colloquium with invited speakers (each semester)
  - every 2nd week (NEW)
- Students actively participate by
  - regularly attending talks (min. 12 talks, participation list) and
  - asking questions (written report of questions and protocol of responses from speaker together with the student's opinion) min. 5 questions and answers to different speakers are to be submitted and evaluated (graded)
- Integral part of the colloquium is a mentorium

Mentorium

- Supported (and conducted in winter) by mentors
- Introduces incoming students to campus facilities (planning a semester, registering for exams, etc.)
- Searching and analyzing literature
- Literature citation, citation styles, plagiarism
- LaTex for scientific writing
- Presenting scientific work
- Strategies to preparation for exams; group activities / social life

Special Subject

- Modules within the Special Subject are courses that allow students to further specialize in their program (form: lectures, seminars)
- The course program is subdivided in different areas
  - Perception
  - Learning & Memory
  - Planning & Reasoning
  - Interaction
  - Methods, General Concepts & Tools
- Students select at least 24 ECTS out of at least 2 areas

- Some Special and Applied subjects require an email notification to the lecturer to register for the subject
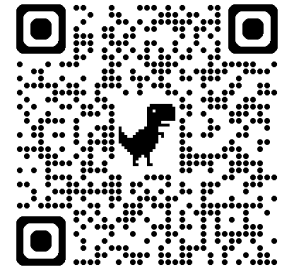- Check: Course list on the Cognitive Systems web page

Applied Subject

- Modules within the Applied Subject are courses more closely related to applications and experimental work for further specialization (form: projects)
- The course program is subdivided in different areas
  - Perception
  - Learning & Memory
  - Planning & Reasoning
  - Interaction
  - Applied Methods and Concepts in Cognitive Systems
- Students select at least 24 ECTS out of at least 2 areas

- Some Special and Applied subjects require an email notification to the lecturer to register for the subject – check deadlines
- Check: Course list on the Cognitive Systems web page

Important Links

Cognitive Systems Web Page
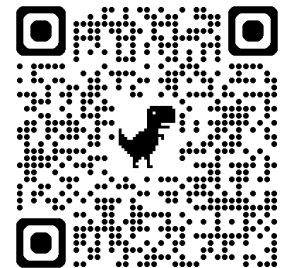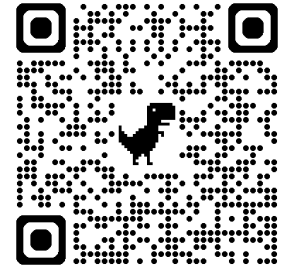https://www.uni-ulm.de/cognitive-systems/

Moodle eLearning System:
https://moodle.uni-ulm.de/

Campus Online
https://campusonline.uni-ulm.de/

Further Links

Infos regarding studying at Ulm University:
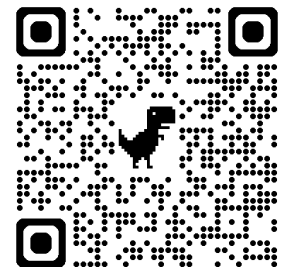https://www.uni-ulm.de/en/study/study-at-ulm-university/organisation/

Campus Navigator:
https://www.uni-ulm.de/einrichtungen/kiz/weiteres/campus-navigation/hoersaalfinder/
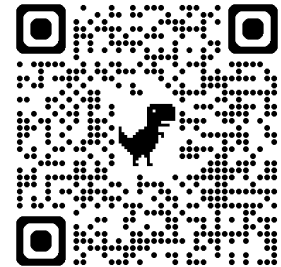
Psychosocial Counselling Service (in German: PBS)
https://studierendenwerk-ulm.de/en/counselling-and-advice/psychosoziale-beratung/

Exam Scheduling System (Computer Science)
https://pps.informatik.uni-ulm.de/

Read and Understand: ASPO

- General study and examination regulations regarding bachelor's and master's programmes at Ulm University (General Framework - ASPO) of 13 July 2022
  https://www.uni-ulm.de/fileadmin/website_uni_ulm/zuv/zuv.dezIII.abt2u3/3-2oeffentlich/bekanntmachungen/2022/en_veroeffentlichung_asop_2022-GB_01.pdf

- Subject-specific study and examination regulations for the English-taught master's programme in Cognitive Systems offered by the Faculty of Engineering, Computer Science and Psychology at Ulm University of 29 February 2024
  https://www.uni-ulm.de/fileadmin/website_uni_ulm/zuv/zuv.dezIII.abt2u3/3-2oeffentlich/satzungen_ordnungen/studium_promotion_habil/studien_pruefungsordnungen_engl/fspo_Cognitive_Systems_engl_2024_01_29.pdf

Engagement for your Programme

- German universities manage themselves!
- Lecturers, staff and students decide, for example, on
  - the study program (study commission)!
  - exceptions in hardship cases (examination board)!
  - admission criteria (admissions board)
- We all make the university a place worth living in and loving
- In particular: Student Union (Fachschaft Informatik)
  https://stuve.uni-ulm.de/fin/
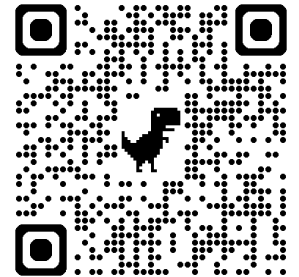
Help us to ensure that it stays that way in the future!
Kontakt: cogsys@uni-ulm.de oder fin@uni-ulm.de

Tipps

- If you have any questions or concerns, ask!
  - Central Student Advisory Service
  - Departmental Student Advisory Service
  - Student Council
  - Study Commission
  - Lecturers/Instructors

- Get in touch with your peers!
  - They are also new here and will be happy to make new friends!

Last, but not least … a great team of academics…

…wishes **you best of luck** with your start into the program!