

Media Informatics Master

Welcome!

Prof. Dr. Antonio Krüger

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Introduction



Prof. Dr. Antonio Krüger

Chairman of the examination board of Media Informatics (MI)



Dr. Michael Schmitz

Contact person for questions related to the “Hochschule der Bildenden Künste Saar” (Academy of Fine Arts - HBKsaar)



Dr. Pascal Lessel

Member of the examination board of MI & contact person for the MI internship

Agenda

General
Information

Internship
(2nd Semester)

Thesis
(4th Semester)

HBKsaar
Details

Agenda

General
Information

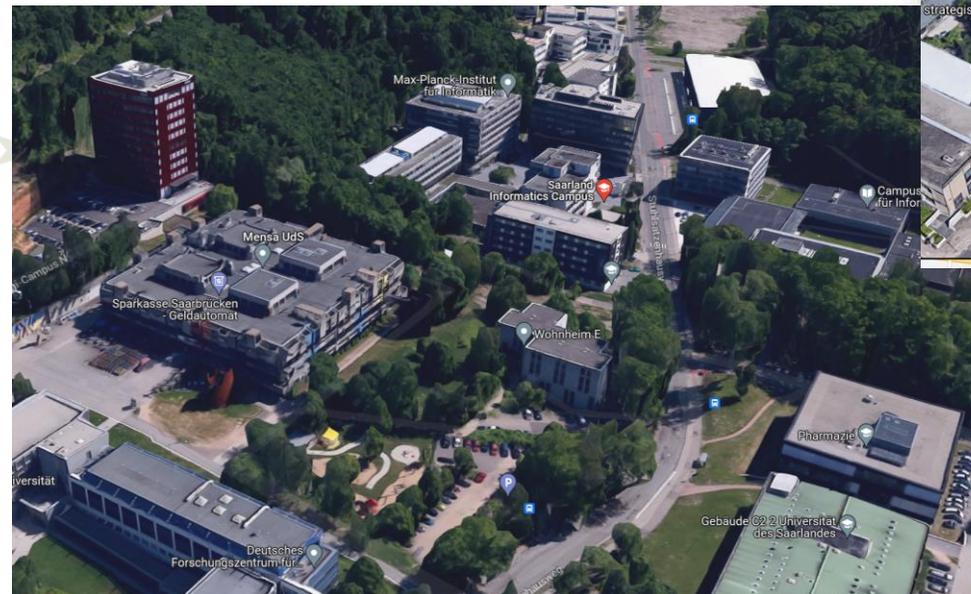
Internship
(2nd Semester)

Thesis
(4th Semester)

HBKsaar
Details

Relevant Locations

HBKsaar



Saarland Informatics Campus



Important Contacts



Examination office

mei@ps-mint.uni-saarland.de

Study coordination

studium@cs.uni-saarland.de

First contact when you have questions regarding study documents, study organization and progress, examination related general questions, academic and personal problems, etc.

Important Documents

Study Regulations • Examination Regulations • Course Handbook

If you have a question, there is a high chance that it is answered in these documents



EN: <https://www.ps-mint.uni-saarland.de/en/programmes/mei>



DE: <https://www.ps-mint.uni-saarland.de/de/programmes/mei>

Remember to check the general regulations as well as the subject-specific regulation.

Overview Document

We provided you with an overview document (via email) with several useful links and pieces of information along with the invitation to this kickoff meeting.

If you missed it (e.g., you heard from this kickoff meeting only from another person), please write an email to pascal.lessel@dfki.de

Example Study Plan

Consult your study regulations
and module descriptions for more details

Term					Total CP
4	Master Thesis 30 CP				30
3	Master Seminar 12 CP	MAD Project 8 CP	Advanced Lecture 6 CP	Free Points: Soft Skills Mandatory Electives 6 CP	32
2	Internship Seminar 5 CP	Internship 20 CP			25
1	Core Lecture 9 CP	Core Lecture 9 CP	MAD Electives 8 CP	Seminar 7 CP	33

Bluish: Computer Science; **Orange:** HBKsaar, **Purple:** Many options possible (sometimes requires a-priori approval); **Grey:** Typically, non-academic (requires a-priori acceptance)

Flexibility: You can shift courses to other semesters, and you can select courses that fit your interests

Courses at UdS

- When creating your semester plan, try to aim for courses fitting to the MI regulations and summing up to around 30 CP per semester (or follow the example study plan).
- For advance and core lectures: typically, you do not have to register beforehand. Please consult the corresponding lecture's web page for important information and take care to attend the first lecture to receive all necessary organizational information.
 - Do not forget to register in time for the exams.
- For seminars you have to get a spot via the seminar distribution system first (see later slides).
 - Do not forget to register in time officially.
- Core lectures re-appear in a certain frequency. This, however, is not guaranteed for advance lectures and seminars. Often, they are given only once.

Course Overview UdS

<https://www.lsf.uni-saarland.de>



Hinweis: Der vollständige Funktionsumfang ist nur aus dem Uninetzwerk bzw. mit VPN nutzbar

Summer 2025 | / | Sitemap

Student's Corner | **Courses** | Facilities | Members

Welcome on HIS Online-Portal - the university portal for students, guests, teachers and employees

Username:

Password:

[Passwort vergessen?](#)

[Fragen zur Anmeldung?](#)

Course Overview UdS

Home | Login | Summer 2025 |  /  | Sitemap

Student's Corner | **Courses** | Facilities | Members

You are here: [Home](#) → [Courses](#) → [Course Overview](#)

Course Overview ← 

Search for Lectures

Lectures today

Lectures cancelled today

Search for Lectures

Hide menu

Course Overview (SoSe 2025)

- ① Vorlesungsverzeichnis
 - ① Mathematics and Computer Science
 - ① Computer Science
 - ① Courses on Media Informatics ← 
 - ① Master, StO 2020
 - ① Core Lectures (elective mandatory)
 - ① Advanced Lectures (elective mandatory)
 - ① Seminars (elective mandatory)
 - ① "Free Points"

Course Overview UdS

Example: Core Lectures – **This** semester:

- ① Vorlesungsverzeichnis
 - ① Mathematics and Computer Science
 - ① Computer Science
 - ① Courses on Media Informatics
 - ① Master, StO 2020
 - ① Core Lectures (elective mandatory)

Lect.-No.	Lecture	Type	Activity
156438	Cryptography - Hanzlik, Döttling	Lecture / Exercise/problem-solving class	
156439	Introduction to Computational Logic - Smolka	Lecture / Exercise/problem-solving class	
156440	Data Networks - Feldmann	Lecture / Exercise/problem-solving class	
156441	Machine Learning - Ochs, Mitarbeiter/-innen des Lehrstuhls	Lecture / Exercise/problem-solving class	
156443	Image Processing and Computer Vision - Weickert, Mitarbeiter des Lehrstuhls	Online-Vorlesung	
156472	Discrete Optimization (before Optimization) - Karrenbauer	Lecture / Exercise/problem-solving class	
156473	Distributed Systems - Druschel, Garg	Lecture / Exercise/problem-solving class	
156772	Cyber-Physical Systems (former Embedded Systems) - Maggio	Lecture / Exercise/problem-solving class	
157331	Verification - Kaminski	Lecture / Exercise/problem-solving class	
157953	Convex Analysis and Optimization - Ochs, Mitarbeiter des Lehrstuhls	Lecture / Exercise/problem-solving class	

Course Overview UdS

Example: Core Lectures – **Last** semester:

Lect.-No.	Lecture	Type	Activity
153146	Digital Transmission, Signal Processing - Herfet	Lecture / Exercise/problem-solving class	
153512	Database Systems - Dittrich	Lecture / Exercise/problem-solving class	
153640	Artificial Intelligence - Hoffmann	Lecture / Exercise/problem-solving class	
153641	Automated Reasoning - Weidenbach	Lecture / Exercise/problem-solving class	
153642	Computer Graphics - Slusallek	Lecture / Exercise/problem-solving class	
153645	Human Computer Interaction - Steimle	Lecture / Exercise/problem-solving class	
153646	Security - Krombholz , Tippenhauer	Lecture / Exercise/problem-solving class	
153647	Software Engineering - Apel	Lecture / Exercise/problem-solving class	
153648	Algorithms and Data Structures - Seidel	Lecture / Exercise/problem-solving class	
153991	Compiler Construction - Hack	Lecture / Exercise/problem-solving class	

A lot of options are offered every year! Often core lectures are repeated in the same rotation (i.e., in summer terms).

Reminder: Advanced lectures and seminars are often only offered once.

Course Overview UdS

Click on entries to receive more information (e.g., lecture slots, CPs granted for course)

① Vorlesungsverzeichnis
→ ① Mathematics and Computer Science
→ ① Computer Science
→ ① Courses on Media Informatics
→ ① Master, StO 2020
→ ① Core Lectures (elective mandatory)

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Often there is also a link to a web page with more information on the lecture – if not visit the chair’s homepage (often they have a “teaching” subpage).

CS Internal Systems



<https://seminars.cs.uni-saarland.de>

<https://cms.sic.saarland>

The screenshot shows the 'SIC Seminars' website. At the top, there is a 'Login' button. Below the header, the 'SIC Saarland Informatics Campus' logo is displayed next to the title 'Seminar Assignment'. The page is organized into four sections, each representing a different term:

- Winter Term 2024:** Contains two links: 'Seminar Assignment Winter 2024/2025' and 'Proseminar Assignment Winter 2024/2025'.
- Summer Term 2024:** Contains two links: 'Seminar Assignment Summer 2024' and 'Proseminar Assignment Summer 2024'.
- Winter Term 2023:** Contains two links: 'Seminar Assignment Winter 2023/2024' and 'Proseminar Assignment Winter 2023/2024'.
- Summer Term 2023:** Contains two links: 'Seminar Assignment Summer 2023' and 'Proseminar Assignment Summer 2023'.

The screenshot shows the 'CMS Vorlesungen' website. At the top, there is an owl logo and the text 'CMS Vorlesungen'. Below the header, the title 'Kursübersicht' is displayed. The page is organized into a list of courses for the 'Wintersemester 2024/2025':

- Analysis I:** Moritz Weber
- Anwendungen der Linearen Algebra:** Friedrich Günther, Gabriela Weitze-Schmithuesen
- Audio-Visual Communication & Networks (WS 2024):** Thorsten Herfet
- Compiler Construction:** Sebastian Hack
- Computational Social Choice:** Yongjie Yang
- Data and Society:** Annika Hass, Till Koebe, Ingmar Weber
- Digital Transmission & Signal Processing (WS2024):** Thorsten Herfet
- Formal Verification of Systems Software:** (partially visible)

Internal seminar registration
Constraint solving to assign seminar spots

Management system for courses
Many, but not all CS courses use this

Seminar preference registration deadline: April 8th, 23:59 CET

Agenda

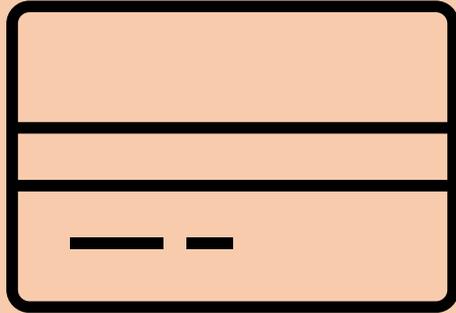
General
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Internship
(2nd Semester)

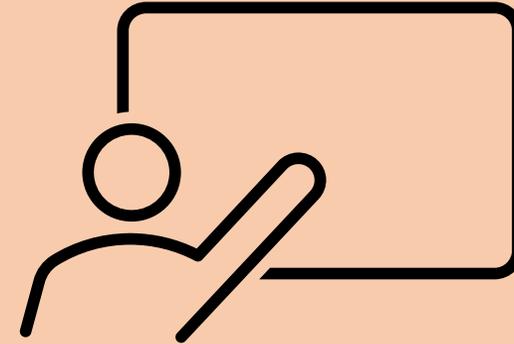
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(4th Semester)

HBKsaar
Details

Practical Phase

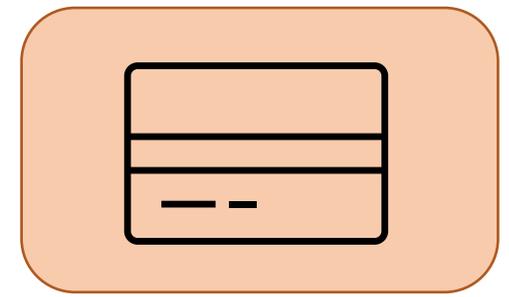


**Internship in an external company for
(at least) 600 working hours in total**



**Attend 3 internship talks
& give a talk about your internship**

Practical Phase



Ubiquitous Media Technology Lab Practical Phase

MEDIAINFORMATICS

[About](#)

[Bachelor](#)

[Master](#)

[Medienprojekt](#)

[Practical Phase](#)

[HBKsaar](#)

Practical Phase / Internship

The one-semester practical phase comprises a professional internship and an accompanying seminar. The internship needs to cover topics from the domain of media informatics or other relevant related domains like computer science (please note: the relationships to the MI program should be obvious). The internship is awarded 20 ungraded credit points; thus the internship workload should be 600 hours (30 x 20h). Additionally, you need to take an according seminar that is awarded 5 graded credit points.

For all administrative issues concerning the practical phase, you can contact [Pascal Lesse!](#). In person is called the "internship contact person".

Scope, topic and company are suggested by the student and need to be accredited by [Prof. Krüger](#) for the internship. The procedure to get this approval is the following:

1. Provide the following information via e-mail to the internship contact person with [the team as](#)



<http://umtl.cs.uni-saarland.de/mediainformatics/practical-phase.html>

Ubiquitous Media Technology Lab Student FAQ

Student FAQ

[Thesis] [How can I pursue a thesis at UMTL?](#)

[Thesis] [How is the Bachelor/Master Seminar \(BMS\) done at UMTL?](#)

[Thesis] [Where can I print my thesis? How much does it cost?](#)

[Thesis] [How can I get a 4.0 certificate for my thesis?](#)

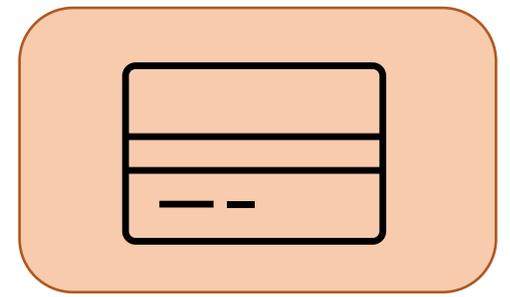
[Practical Phase] [Where do I find information about the practical phase?](#)

[Practical Phase] [Could the internship take longer than required?](#)

[Practical Phase] [Does the internship needs to be approved beforehand?](#)

<http://umtl.cs.uni-saarland.de/faq>





Some companies that already accepted students in the past:

- [anynines \(formerly Avarteq\)](#)
- [Centigrade](#)
- [Create 3D](#)
- [Deutsche Hochschule für Prävention und Gesundheitsmanagement \(DHfPG\)](#)
- [Dialogika](#)
- [Didactic Innovations](#)
- [Ergosign](#)
- [Eyeled](#)
- [IMC](#)
- [Natif.ai](#)
- [Neogeist Ventures](#)
- [SAP \(St. Ingbert\)](#)
- [site point](#)

It's your responsibility to find an internship.

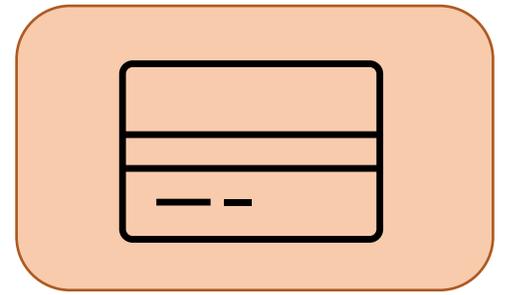
You do not need to do the internship in Saarland.

A possible internship needs to be approved by us beforehand.

The internship needs to cover topics from the domain of media informatics.

Practical Phase

One important entry from the FAQ:

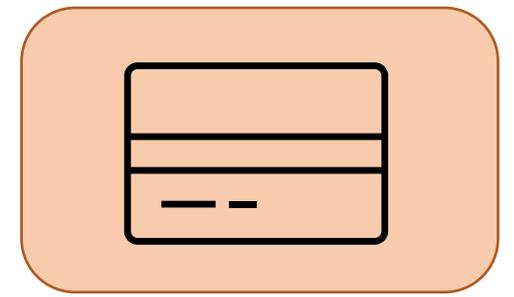


[Practical Phase] What should the certificate of the employer look like?

The employer just has to provide a document that contains the name of the company, the name of the intern and the information that it was an internship, the department/area you have worked at (e.g. software development, interaction design, etc.), at least two sentences what you actually did during the internship, the duration of the internship (when the internship started, when it ended and your weekly working time), how many hours the internship overall covered (reminder: the internship needs to cover at least 600 hours) and a signature of a person that is responsible for staff matters (e.g. internship supervisor, HR department, etc.).

Practical Phase

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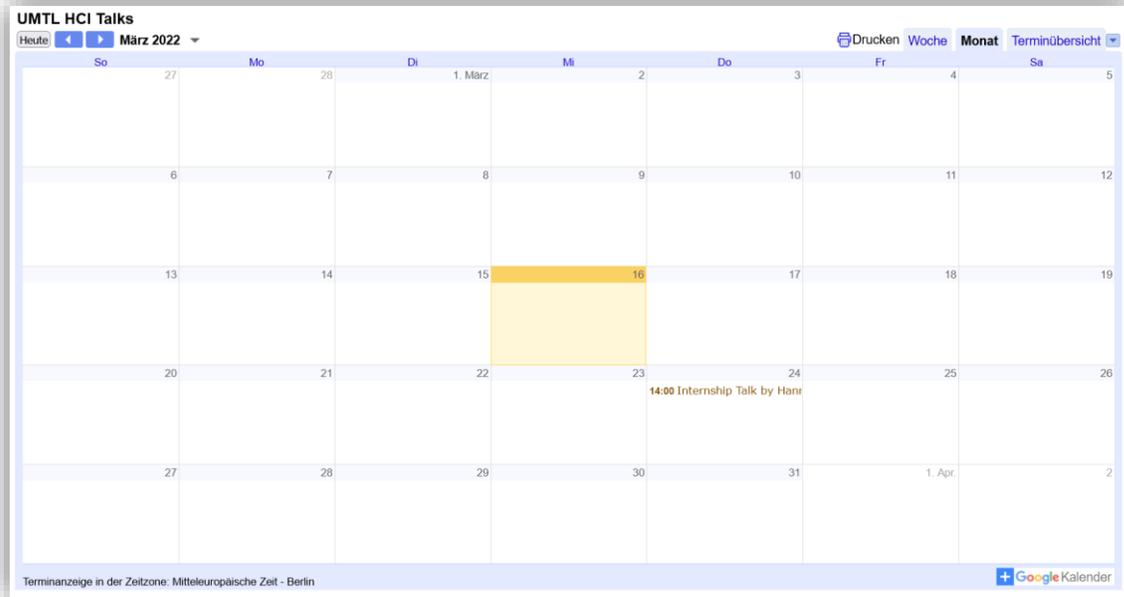
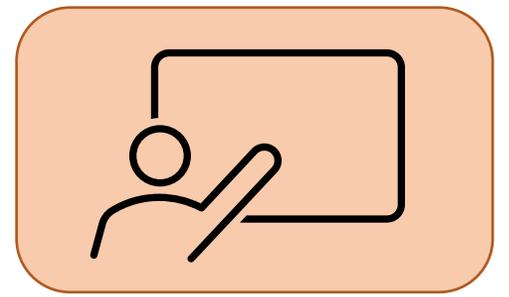


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Sometimes, these pieces of information are missing → ensure that they are present before submitting the document to us.

Practical Phase



<https://umtl.cs.uni-saarland.de/research/talks.html>



Seminar

To pass the seminar accompanying the practical phase, there are the following requirements:

1. Attending at least **3 other seminar talks**
2. **Giving a 30 minute presentation about the internship.** This presentation should introduce the company, as well as the work you have done. The presentation is supposed to close with a short summary and what you liked about the internship and what not.

To choose a timeslot for your presentation, please contact the internship contact person with **5 suggestions of possible dates** (including your available time on these days) **and the following information:**

Title: [Add the title of the talk]

Type of Talk: Internship-Talk

Internship-Company: [Add the name of the company where you did your internship]

Speaker: [Add your name]

Time and date: [Add the time and date]

Teams-Link: [Add the link]

Abstract: [Provide a short abstract of the talk]

Digital meetings!

After the date is agreed upon, you will receive the Teams link and the talk will be added to the calendar (see below).

**You need to attend other talks +
provide your slides after your talk!**

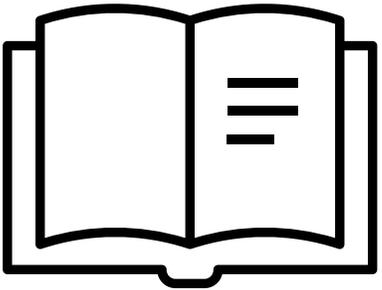
Agenda

General
Information

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HBKsaar
Details



Two general options:

- A) Writing your thesis **internally** at Saarland University.
 - This can be typically done at **all Computer Science chairs**.
Therefore, it is reasonable to start finding suitable chairs early and attending their courses.
 - Different requirements!
Check them out before contacting the corresponding chair/responsible person.
- B) Writing your thesis in an **external company**.
 - You also need to find a Professor of Computer Science at Saarland University who agrees to co-supervise.

Supervisors

Professors of Saarbrücken Computer Science

Co-opted professors
Honorary professors
Other Faculty
Emeriti

Professors of Saarbrücken Computer Science



Prof. Dr. Sven Apel
Professor, Saarland University
Software Engineering and
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Prof. Dr. Vera Demberg
Professor, Saarland University
Computer Science and
Computational Linguistics

🏠 Saarland University



Prof. Dr. Jens Dittrich
Professor, Saarland University
Databases, Data Management, and
Big Data Analytics

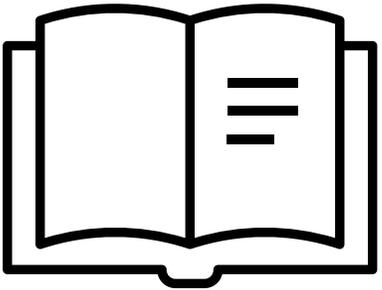
🏠 Saarland University

Link to their chair pages
➔ Presentation of research interests



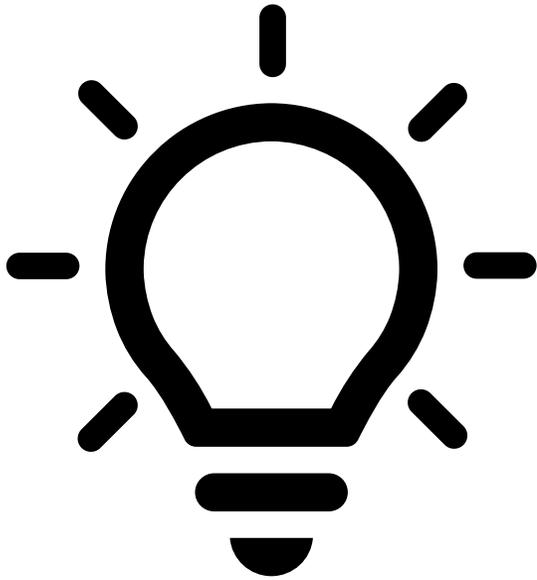
<https://saarland-informatics-campus.de/en/forschung-research/advisors>

Master Seminar



- Before you can register your thesis officially, you must complete the Master Seminar (12 CP).
- Every chair has its own implementation of it. In general, you do preparatory work for the thesis (e.g., in-depth literature review, shaping the research question, etc.).
- Typical, you will also present your thesis idea and related work in a talk, followed by a discussion. Additional elements (e.g., a written document) can also be part.
- You must register the thesis within one semester after successfully completing the Master Seminar (or you must redo the Seminar). The thesis must be completed within six months after official registration.

Plan Accordingly!

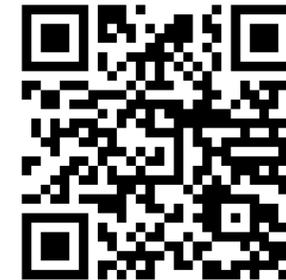
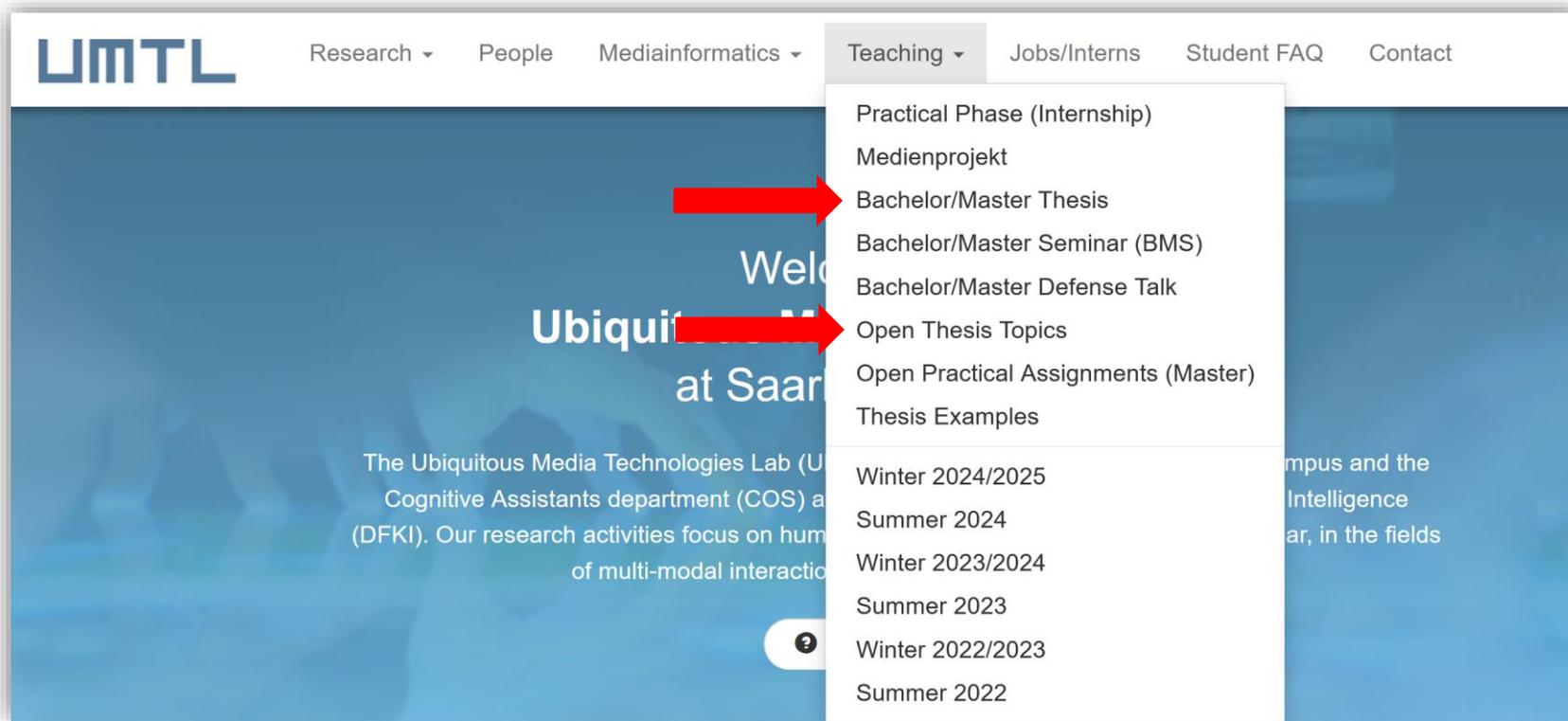


- Experience shows that it is sometimes difficult for some students to find a thesis supervisor.
- To minimize this issue, pick your seminar and courses strategically (i.e., at chairs that do research that is of interest for you) and achieve good grades in these. **Goal:** Chairs should not only learn about you, when you want to write a thesis with them.
 - Start this process already early on!
- If you do not get a seat in these seminars and they give no core lectures (or other relevant courses for you), try to get in contact with them via other formats, for example the “Master Practical Assignments” (6 ECTS, for the Mandatory Electives).

Example: UMTL Chair



Example: UMTL Chair



<https://umtl.cs.uni-saarland.de>

Bachelor/Master Thesis

How can I pursue a thesis at UMTL?

If you are interested in writing a Bachelor's or Master's thesis at our chair, please be aware of the following prerequisites and principles:

1. Optimally, you have successfully attended lectures and/or seminars given by our group (Bachelor or Master).
2. To find an advisor and apply for a topic, there are two options:
 - a. **You are looking for a topic:** Have a look at our [open thesis page](#). Here you can see what we currently offer - every entry illustrates how to apply for it. If you have experience in an area that we cover (please visit the individual web pages of our [team members](#)), but no corresponding open topics are available at the moment, you can proactively contact the corresponding member of UMTL. Add your current transcript of records (as well as former ones, if applicable), a motivational statement why the area is a good fit for you and a clear timeframe indicating when you plan to do your thesis (planned start + end date). Please note that there is no guarantee that we can supervise you.
 - b. **You already have a topic** (your own idea or the topic is proposed by an external company): In order to learn more about our research interests, please visit the individual web pages of our [team members](#). Please send [Prof. Krüger](#) an email with the names of the team members that match the topic of your intended thesis closest (if you cannot identify a match, we are likely the wrong chair for supervision). Please note, if the thesis does not fit to our research agenda or the relevant members have no capacity left, we might not be able to supervise you on this topic (however other Computer Science chairs might be able to, see below). If the topic comes from an external company, please include the original thesis description in your initial contact and also state whether there are aspects the company needs us to consider (e.g., "Sperrvermerk"/NDAs etc.). If the topic is a fit and a member is interested, Prof. Krüger will initiate the contact.
3. The potential advisor will review your application:
 - **You get a positive reply:** Great news! You can now proceed with the topic and follow the steps stated in the section "*After I have a topic and an advisor - what else do I need?*" (if it is an external thesis, see also the common questions section)
 - **You receive a negative reply:** Sadly, the team member cannot accept your application. This could be because of different reasons, such as the lack of

Remember: Other chairs might have other requirements and other processes

Example: Find Our Open Topics

UMTL Research ▾ People Mediainformatics ▾ Teaching ▾ Jobs/Interns Student FAQ Contact

Open Thesis Topics

Perception of Audience Influence Options Beyond the Game: Understanding Context Factors	Dr. Pascal Lessel 
Human-Robot Collaboration: User-Study regarding Optimal Work Dynamic and Interaction Modalities	Dr. Tim Schwartz 
Human-in-the-Loop Reinforcement Learning using real-time feedback for industrial robots (Industry 4.0)	Amr Gomaa 
Real-time multi-modal interaction for referencing objects from a moving source.	Amr Gomaa 
Adaptive in-vehicle HMI based on driving behavior using state diagrams.	Amr Gomaa 

Bachelor/Master Seminar (BMS)

The previous Bachelor-Master-Seminar (BMS) regulations were updated and valid since 23.07.2018. These rules apply for all theses assessed by Prof. Krüger as the first reviewer. If this is not the case, the BMS-regulations should be checked and fulfilled by a respective first reviewer.

The purpose of BMS is to train scientific working methods. It serves as the basis for theses in our department. The grade for BMS consists of:

- (I) the literature review and the written summary of relevant works on the revised topic and
- (II) the presentation of the exact planning of the thesis.

Both parts will be graded and make up the BMS grade in equal proportion.



Questions so far?

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Note: What is shown was for illustrative purposes.
Binding are always study program documents etc.
and not these slides.

