

Media Informatics Master

Welcome!

Prof. Dr. Antonio Krüger

Dr. Michael Schmitz

Dr. Pascal Lessel

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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

Contact person for the MI internship and other questions

Agenda

General
Information

Internship
(2nd Semester)

Thesis
(4th Semester)

HBKsaar
Details

Agenda

General
Information

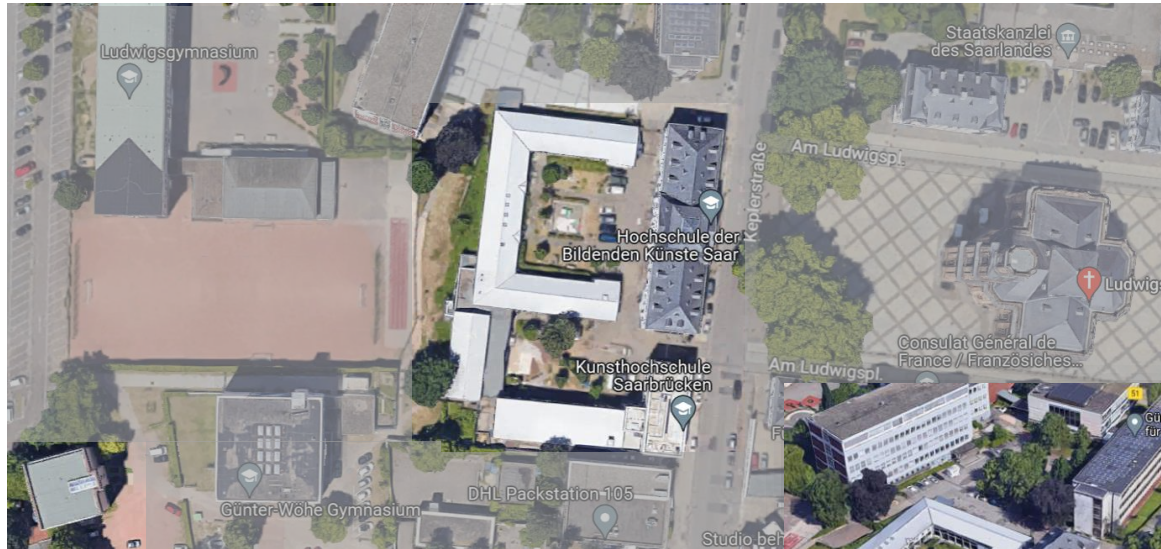
Internship
(2nd Semester)

Thesis
(4th Semester)

HBKsaar
Details

Relevant Locations

HBKsaar



Saarland Informatics Campus



Important Contacts



Examination office

mei@ps-mint.uni-saarland.de

Study coordination

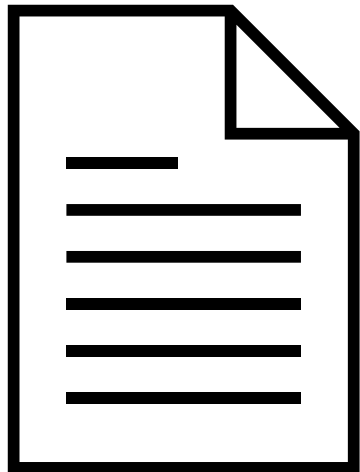
studium@cs.uni-saarland.de

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>

Overview Document

We (sek-ak@dfki.de) provided you with an overview document 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

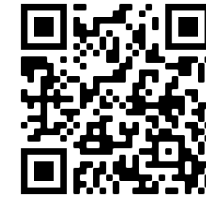
Term					Total CP
4	Master's Thesis 30 CP				30
3	Master's Seminar 12 CP	MAD Project 8 CP	Advanced Lecture 6 CP	Soft Skills Mandatory Electives 6 CP	32
2	Internship Seminar 5 CP	Internship 20 CP			25
1	Core Lecture 9 CP	Core Lecture 9 CP	MAD Electives 8 CP	Seminar 7 CP	33



Bluish: Computer Science; **Orange:** HBKsaar, **Purple:** Many options possible (requires typically a-priori acceptance); **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

Course Overview UdS

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



Winter 2024/25 |  /  | Sitemap

Student's Corner | **Courses** | Organizational units | 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 | Winter 2024/25 | /

Student's Corner | **Courses** | Organizational units

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

Course Overview ←

Search for Lectures

Lectures today

Lectures cancelled today

Search for Lectures

Hide menu

Course Overview (WiSe 2024/25)

- 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:

Course Overview (WiSe 2024/25)

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

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	

Course Overview UdS

Example: Core Lectures – Last semester:

→ ⓘ Computer Science
→ ⓘ Courses on Media Informatics
→ ⓘ Master, StO 2020
→ ⓘ Core Lectures (elective mandatory)

Lect.-No.	Lecture	Type	Activity
149194	Discrete Optimization (before Optimization) - Karrenbauer	Lecture / Exercise/problem-solving class	
149195	Complexity Theory - Bläser	Lecture / Exercise/problem-solving class	
149466	Cryptography - Joux , Hanzlik	Lecture / Exercise/problem-solving class	
149467	Introduction to Computational Logic - Smolka	Lecture / Exercise/problem-solving class	
149471	Data Networks - Feldmann	Lecture / Exercise/problem-solving class	
149472	Machine Learning - Valera Martinez	Lecture / Exercise/problem-solving class	
149474	Operating Systems - Kaufmann, PhD	Lecture / Exercise/problem-solving class	
151053	Continuous Optimization (Kontinuierliche Optimierung) - Ochs , Mitarbeiter des Lehrstuhls	Lecture / Exercise/problem-solving class	
151058	Convex Analysis and Optimization - Ochs , Mitarbeiter des Lehrstuhls	Lecture / Exercise/problem-solving class	
151106	Image Processing and Computer Vision - Weickert , Mitarbeiter des Lehrstuhls	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).

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

Course Overview UdS

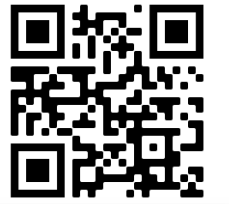
Click on entries to receive more information (i.e., lecture slots or how much ETCS points?)

Course Overview (WiSe 2024/25)

- ① Vorlesungsverzeichnis
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CS Internal Systems



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

<https://cms.sic.saarland>

The screenshot shows the 'SIC Seminars' website. The header includes the SIC logo (Saarland Informatics Campus) and the title 'Seminar Assignment'. Below the header, there are four sections for different terms: 'Winter Term 2024', 'Summer Term 2024', 'Winter Term 2023', and 'Summer Term 2023'. Each section contains two rows of text, likely representing seminar assignments for that term.

The screenshot shows the 'CMS' (Course Management System) website. The header includes the CMS logo (an owl) and the title 'CMS Vorlesungen'. Below the header, there is a section titled 'Kursübersicht' (Course Overview) for the 'Wintersemester 2024/2025'. The list of courses includes: '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), and 'Formal Verification of Systems Software'.

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: October 16th, 23:59 CET

Agenda

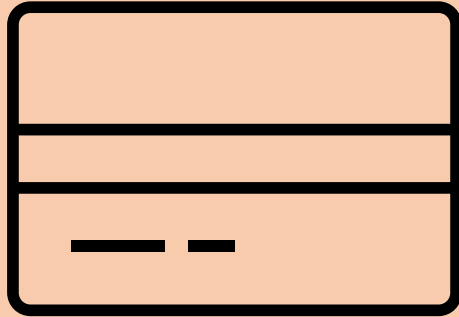
General
Information

Internship
(2nd Semester)

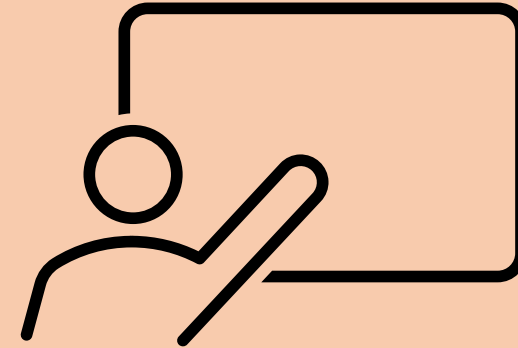
Thesis
(4th Semester)

HBKsaar
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Practical Phase

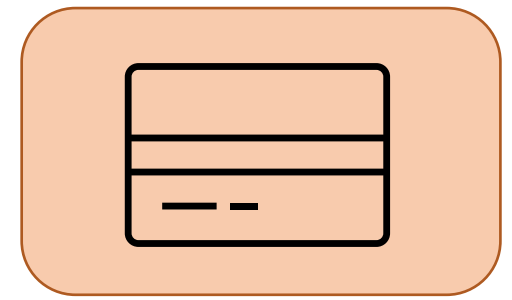


**Internship in an external company for
(at least) 600 working hours in total**



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

Practical Phase



UMTL Research People Mediainformatics Teaching Jobs/Interns Student FAQ Contact

Ubiquitous Media Technology Lab Practical Phase

ical 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. The internship is awarded 20 ungraded credit points, thus the internship workload should be at least 60 hours. 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 Lessele](#). In the future, this person is called the "internship contact person".

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



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

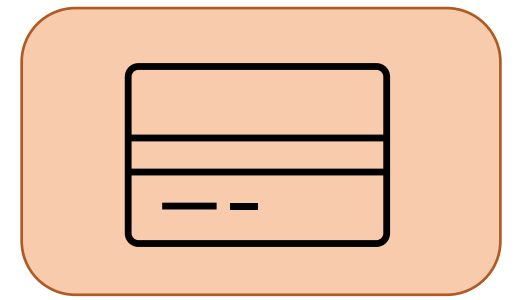
<http://umtl.cs.uni-saarland.de/faq>



UMTL Research People Mediainformatics Teaching Jobs/Interns Student FAQ Contact

Ubiquitous Media Technology Lab Student FAQ

- [How can I pursue a thesis at UMTL?](#)
- [How is the Bachelor/Master Seminar \(BMS\) done at UMTL?](#)
- [Where can I print my thesis? How much does it cost?](#)
- [Where do I find information about the practical phase?](#)
- [Could the internship take longer than required?](#)
- [Does the internship needs to be approved beforehand?](#)



Some companies that already accepted students in the past:

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

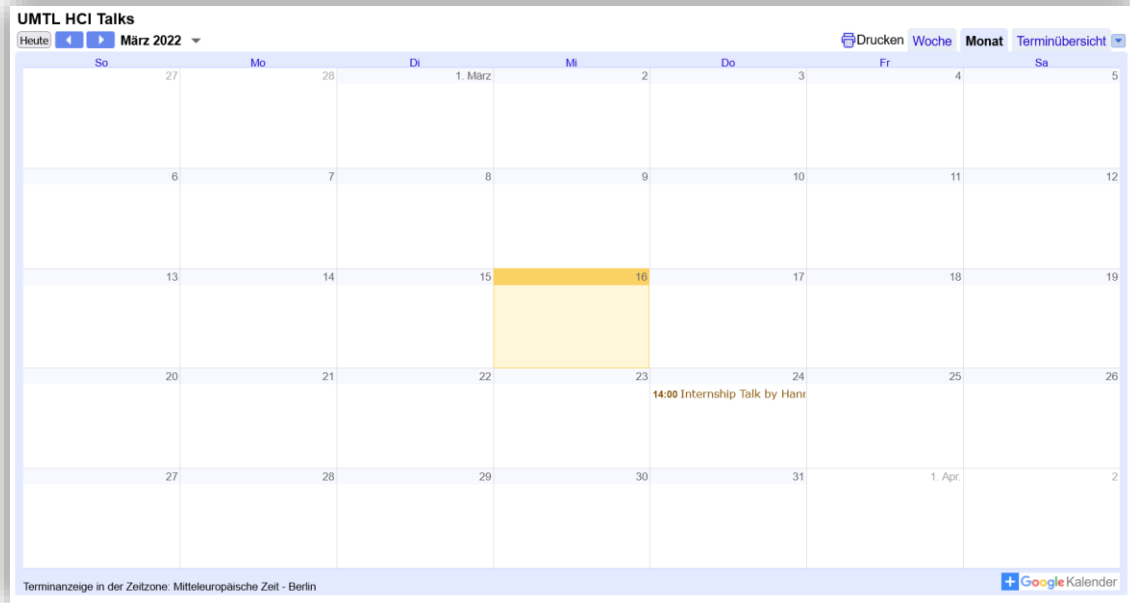
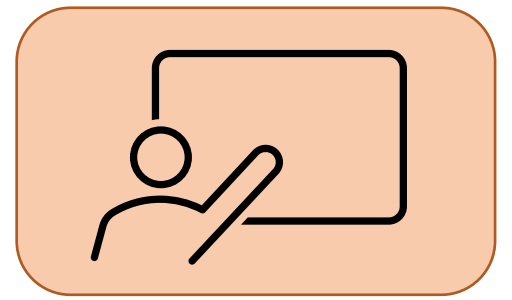
It's your responsibility to find an internship.

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



<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

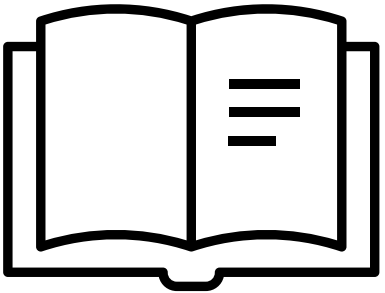
Agenda

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(4th Semester)

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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

The screenshot shows the SIC (Saarland Informatics Campus) website. The header includes the SIC logo, navigation links (Studies, Research, Corporate Relations, News, About Us), language options (En | De), and the University of Saarland logo. The main content area is titled "Professors of the Computer Science Department" and lists six professors with their photos, titles, and contact information.

SIC Saarland Informatics Campus

Studies Research Corporate Relations News About Us En | De

UNIVERSITÄT DES SAARLANDES

Co-opted professors
Honorary professors
Other Faculty
Emeriti

Professors of the Computer Science Department

- Prof. Dr. Sven Apel**
Professor, Saarland University
Software Engineering and Programming Methodology
Saarland University
Saarland Informatics Campus
E1 1, R. 211
66123 Saarbrücken
Germany
+49 681 302-57211
Assistant: +49 681 302-57210
E-Mail
Homepage
- Prof. Dr. Dr. h.c. Michael Backes**
Scientific Director and Professor,
CISPA Helmholtz Center for Information Security and Cryptography
CISPA Helmholtz Center for Information Security
Saarland Informatics Campus
E9 1
66123 Saarbrücken
Germany
+49 681 302-3259
Assistant: +49 681 302-3249
E-Mail
Homepage
- Prof. Dr. Laurent Bartholdi**
Professor, Department of Computer Science
Mathematics and Computer Science
Department of Computer Science
Saarland Informatics Campus
E24, R. 425
66123 Saarbrücken
Germany
+49 681 302-3227
Assistant: +49 681 302-3430
E-Mail
Homepage
- Prof. Dr. Markus Bläser**
Professor, Saarland University
Computational Complexity
Saarland University
- Prof. Dr. Karl Bringmann**
Professor, Saarland University
Algorithms and Complexity
Saarland University
- Prof. Dr. Vera Demberg**
Professor, Saarland University
Computer Science and Computational Linguistics
Saarland University

Link to their chair pages
➔ Presentation of research interests

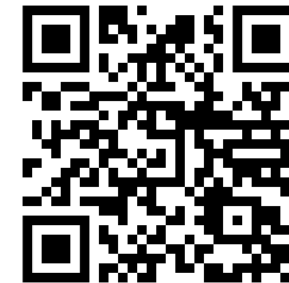
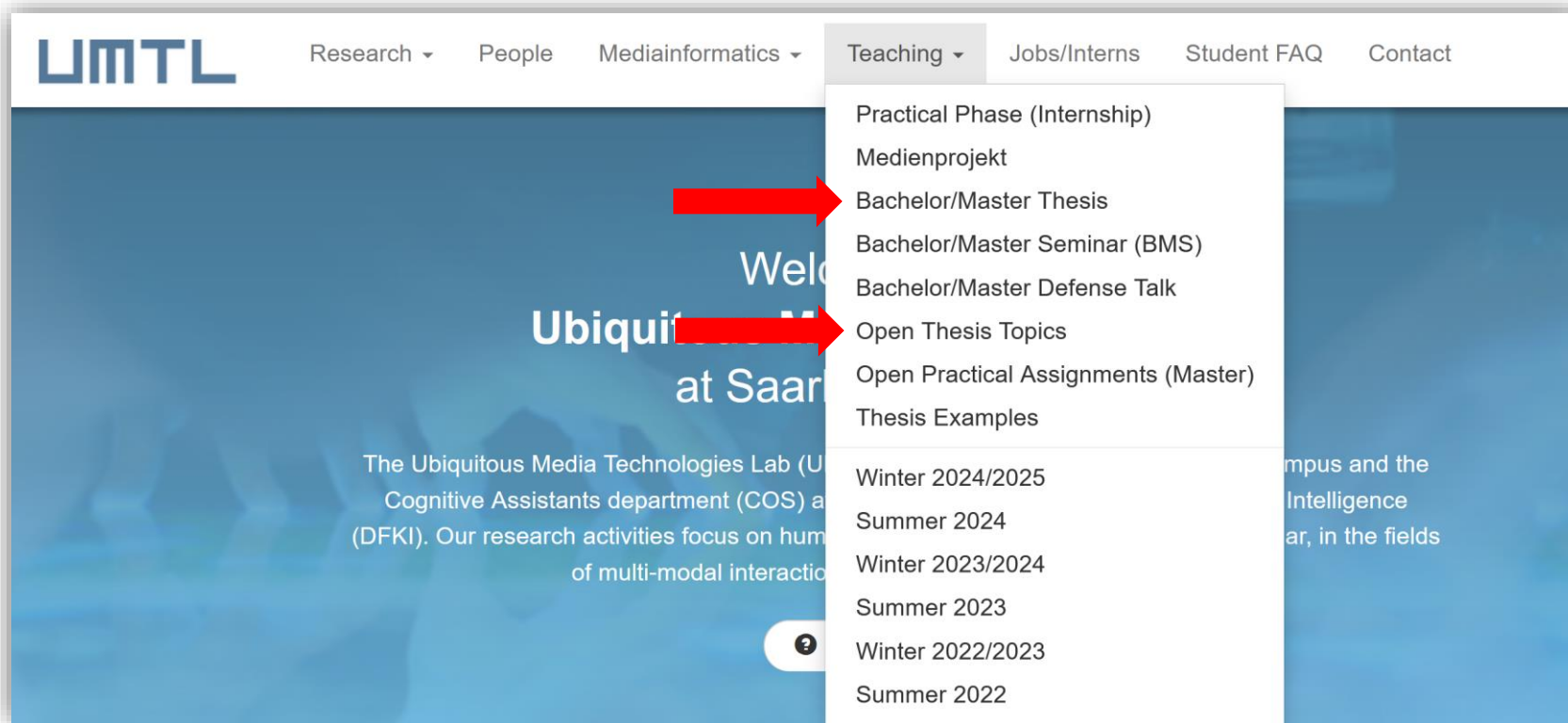


<https://saarland-informatics-campus.de/en/forschung-research/advisors>

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

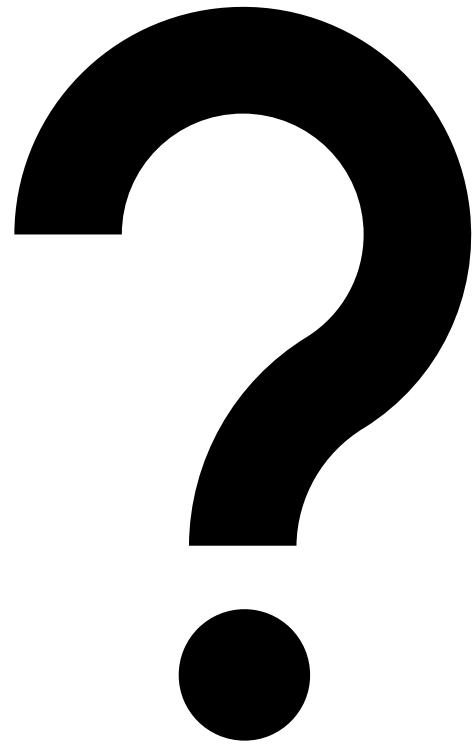
Remember: Other chairs might have other requirements and other processes

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 



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.

