

Media Informatics Master

Welcome!

Prof. Dr. Antonio Krüger

Dr. Michael Schmitz

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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

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General
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(2nd Semester)

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(4th Semester)

HBKsaar
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Relevant Locations

HBKsaar



Saarland Informatics Campus



Important Contacts



Examination office
mei@ps-mint.uni-saarland.de



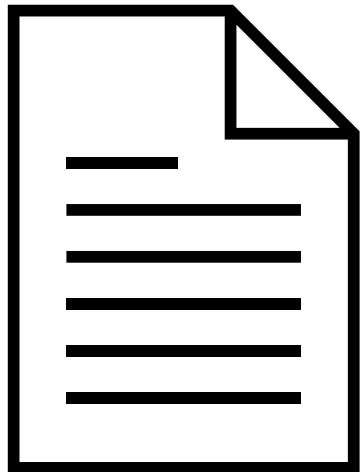
Study coordination (Dr. Rahel Stoike-Sy or
Barbara Schulz-Brünken)
studium@cs.uni-saarland.de

**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

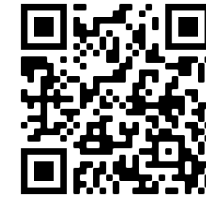
Consult your study regulations
and module descriptions for more details

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



Select a semester

The screenshot shows the HIS Online-Portal interface. At the top, there is a blue header with the text "Summer 2024" and flags for German and English, along with a "Sitemap" link. Below the header is a navigation bar with buttons for "Student's Corner", "Courses", "Orgunits", "Facilities", and "Members". The "Courses" button is highlighted with a red box. A red line points from this box to the text "Check the offered courses". Below the navigation bar is a welcome message: "Welcome on HIS Online-Portal - the university portal for students, guests, teachers and employees". On the left side, there is a login form with fields for "Username:" and "Password:", an "Ok" button, and links for "Passwort vergessen?" and "Fragen zur Anmeldung?".

Check the offered courses

Course Overview UdS

Home | Login | Summer 2024 | /

Student's Corner Courses Orgunits

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 2024)

- 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:

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

<u>Lect.-No.</u>	<u>Lecture</u>	<u>Type</u>	<u>Activity</u>
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	

Course Overview UdS

Example: Core Lectures – Last semester:

→ ⓘ Master, StO 2020
→ ⓘ Core Lectures (elective mandatory)

Lect.-No.	Lecture	Type	Activity
146421	Semantics - Dreyer	Lecture / Exercise/problem-solving class	
146425	Artificial Intelligence - Hoffmann	Lecture / Exercise/problem-solving class	
146426	Automated Reasoning - Waldmann	Lecture / Exercise/problem-solving class	
146429	Computer Graphics - Slusallek	Lecture / Exercise/problem-solving class	
146432	Digital Transmission, Signal Processing - Herfet	Lecture / Exercise/problem-solving class	
146433	Human Computer Interaction - Schmitz	Lecture / Exercise/problem-solving class	
146434	Security - Bugiel, Holz	Lecture / Exercise/problem-solving class	
146435	Software Engineering - Apel	Lecture / Exercise/problem-solving class	
146768	Algorithms and Data Structures - Bringmann, Wellnitz	Block lecture course	
147527	Verification - Finkbeiner	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

How do I receive more information on a course? (i.e., lecture slots or how much ETCS points?)

Course Overview (WiSe 2023/24)

- 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
146421	Semantics - Dreyer	Lecture / Exercise/problem-solving class	
146425	Artificial Intelligence - Hoffmann	Lecture / Exercise/problem-solving class	
146426	Automated Reasoning - Waldmann	Lecture / Exercise/problem-solving class	
146429	Computer Graphics - Slusallek	Lecture / Exercise/problem-solving class	
146432	Digital Transmission, Signal Processing - Herfot	Lecture / Exercise/problem-solving class	
146433	Human Computer Interaction - Schmitz	Lecture / Exercise/problem-solving class	
146434	Security - Bugiel, Holz	Lecture / Exercise/problem-solving class	
146435	Software Engineering - Apel	Lecture / Exercise/problem-solving class	
146768	Algorithms and Data Structures - Bringmann, Wellnitz	Block lecture course	
147527	Verification - Finkbeiner	Lecture / Exercise/problem-solving class	

Human Computer Interaction - Einzelsicht

[Zurück](#)


Funktionen: [markierte Termine vormerken](#)

Seiteninhalt: [Grunddaten](#) | [Termine](#) | [Zugeordnete Person](#) | [Studiengänge](#) | [Hochschulstruktur](#) | [Inhalt](#) | [Strukturbaum](#)

Grunddaten

Veranstaltungsart	Vorlesung / Übung	Langtext	
Veranstaltungsnummer	146433	Kurztext	
Semester	WiSe 2023/24	SWS	
Erwartete Teilnehmer/-innen		Max. Teilnehmer/-innen	
Turnus		Veranstaltungsanmeldung	Keine Veranstaltungsbelegung im LSF
Credits			
Sprache	Englisch		

Termine Gruppe:

	Tag	Zeit	Turnus	Dauer	Raum	Raumplan	Lehrperson	Status	Bemerkung	fällt aus am	Max. Teilnehmer/-innen
	Di.	14:00 bis 16:00	woch		Gebäude E1.3 - Hörsaal II (0.02.1)						
	Mi.	14:00 bis 16:00	woch		Gebäude E1.3 - Hörsaal II (0.02.1)						

Gruppe: vormerken [markierte Termine vormerken](#)

Zugeordnete Person

Zugeordnete Person	Zuständigkeit
Schmitz, Martin, Dr.	

Studiengänge

Abschluss	Studiengang	Semester	Prüfungsversion	Kommentar	LP	BP	ECTS
LA Sekundarstufe I und II	Informatik	-	20221		9		9
LA beruf.Schulen	Informatik	-	20221		9		9
Bachelor (KB)	Mathematik und Informatik	-	20201		9		9
Master (KB)	Cybersecurity	-	20211		9		9
Bachelor (KB)	Computer Science (engl.)	-	20211		9		9
Master (KB)	Data Science and AI	-	20191		9		9
Master (KB)	Embedded Systems	-	20161		9		9
LA Sekundarstufe I und II	Informatik	-	20121		9		9
Master (KB)	Medieninformatik	-	20131		9		9
Bachelor (KB)	Medieninformatik	-	20131		9		9
Bachelor (KB)	Informatik	-	20151		9		9
Master (KB)	Informatik	-	20151		9		9
Bachelor (KB)	Mathematik und Informatik	-	20161		9		9
Master (KB)	Mathematik und Informatik	-	20161		9		9
Master (KB)	Entrep. Cybersecurity	-	20181		9		9
Bachelor (KB)	Informatik	-	20201		9		9
LA Sekundarstufe I und II	Informatik	-	20201		9		9
Bachelor (KB)	Medieninformatik	-	20201		9		9
Master (KB)	Medieninformatik	-	20201		9		9

CS Internal Systems



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

<https://cms.sic.saarland>

SIC Seminars

SIC Saarland Informatics Campus **Seminar Assignment**

Summer Term 2023

- Proseminar Assignment Summer 2023
- Seminar Assignment Summer 2023

Winter Term 2022

- Seminar Assignment for Winter 2022/2023
- Proseminar Assignment for Winter 2022/2023

Summer Term 2022

- Seminar Assignment Summer 2022
- Proseminar Assignment Summer 2022

Winter Term 2021

- Seminar Assignment Winter 2021/2022
- Proseminar Assignment Winter 2021/2022

CMS Vorlesungen

Sommersemester 2023

Computability in Mathematics	Leon Pernak, Emmanuel Rauzy
Dynamical Systems	Dan J. Hill
Formalizing mathematics in LEAN	Laurent Bartholdi
Hands on Networking (Block Course February / March 2023)	Thorsten Herfet
High Dimensional Analysis: Random Matrices and Machine Learning	Prof. Dr. Roland Speicher
Hot topics in long-read sequencing	Andre Holzer
Interactive Systems	Prof. Dr. Antonio Krüger
Introduction to Computational Logic	Prof. Gert Smolka
Introduction to Mathematical Logic	Frederik Herzberg
Life Insurance Mathematics	Frederik Herzberg
Machine Learning	Prof. Dr. Isabel Valera

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 17th, 23:59 CET

Agenda

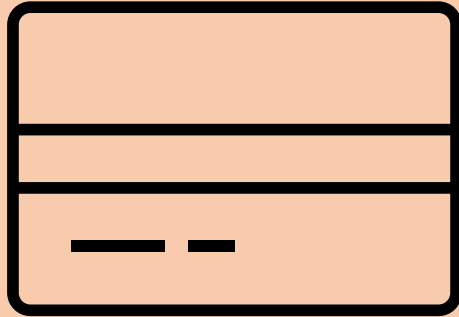
General
Information

Internship
(2nd Semester)

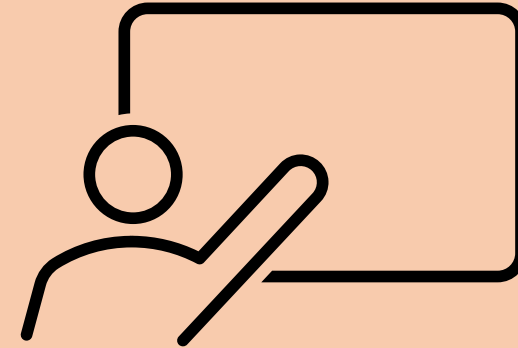
Thesis
(4th Semester)

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Practical Phase

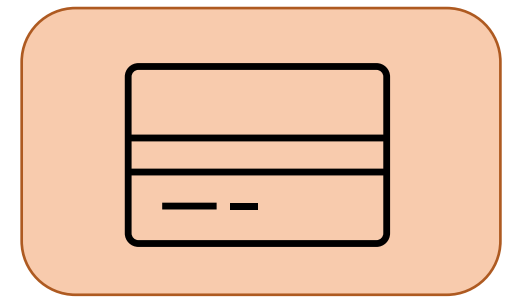


**Internship in an external company for
(at least) 600 working hours in total**



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

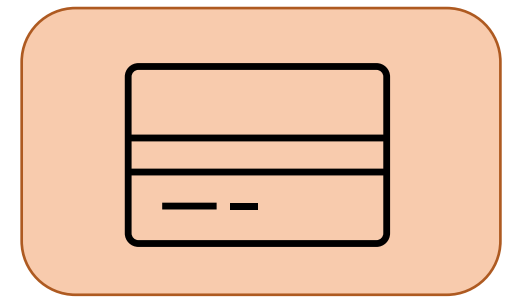
Practical Phase



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

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





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](#)

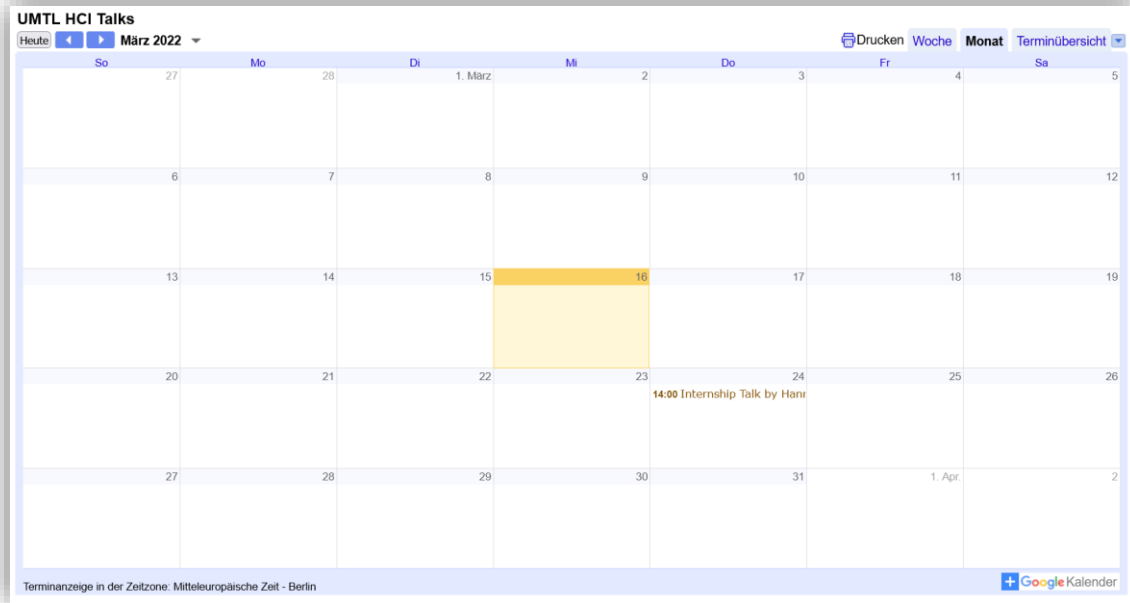
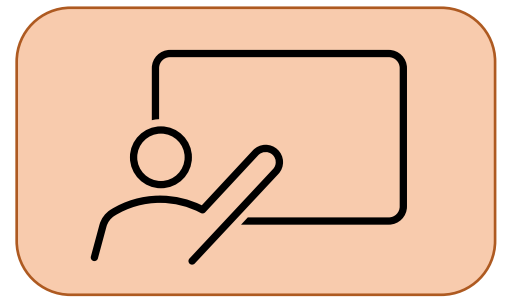
It's your responsibility to find an internship.

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

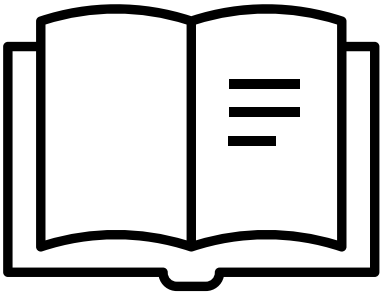
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Two general options:

- 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.

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

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Saarland Informatics Campus
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Homepage

Prof. Dr. Dr. h.c. Michael Backes
Scientific Director and Professor,
CISPA Helmholtz Center for Information Security and Cryptography

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Mathematics and Computer Science

Department of Computer Science
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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

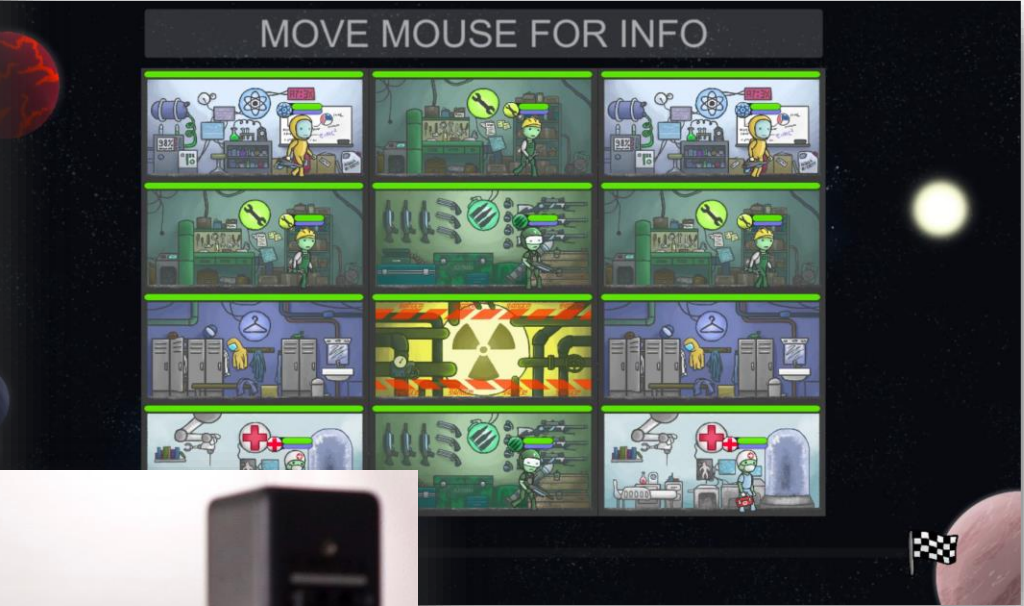
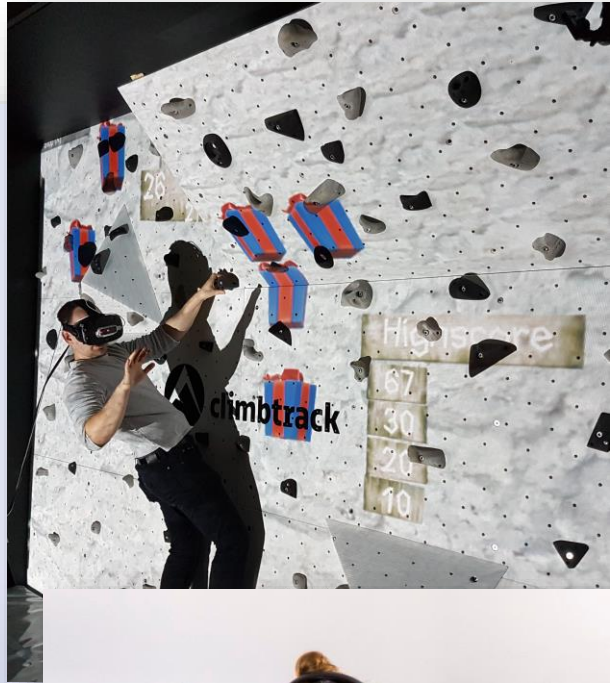
Prof. Dr. Vera Demberg
Professor, Saarland University
Computer Science and Computational Linguistics

Link to their chair pages
➔ Presentation of research interests



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





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

The screenshot shows the UMTL website navigation bar with the 'Teaching' menu item circled in red. Below the navigation bar, the 'Open Thesis Topics' section lists five topics, each with a corresponding supervisor's name and profile picture.

Thesis Topic	Supervisor
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.

