UNIVERSITÄT SIEGEN

Naturwissenschaftlich Technische Fakultät

Master of Science in Computer Science

Department of Electrical Engineering & Computer Science (ETI)

Introduction to International Students

Overview

- Overview Computer Science Master
- Examination Office
- Contact

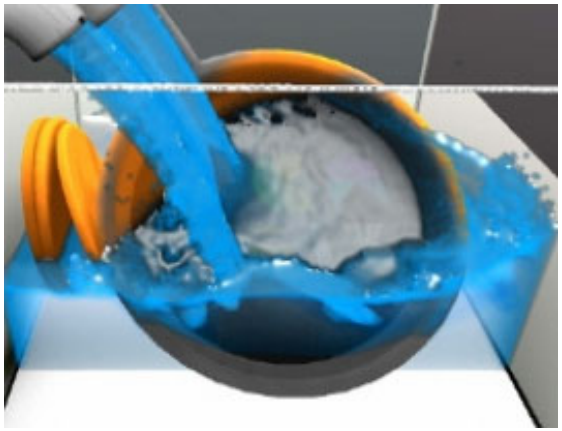
Education

Study Environment

- The international Computer Science M.Sc. program provides theoretical and practical modules in small classroom settings.

Study Foci: The Master Program has two foci

- ***Embedded Systems (ES)*** includes for example
  - Cyberphysical Systems, Micro System Engineering and Ubiquitous Computing
- ***Visual Computing (VC)*** includes for example
  - Computer Vision, Computer Graphics and Machine Learning



The Master Program further comprises scientific seminars, project work and the Master thesis

Career Perspective: ES & VC are essential for e.g. autonomous driving, health care & smart production

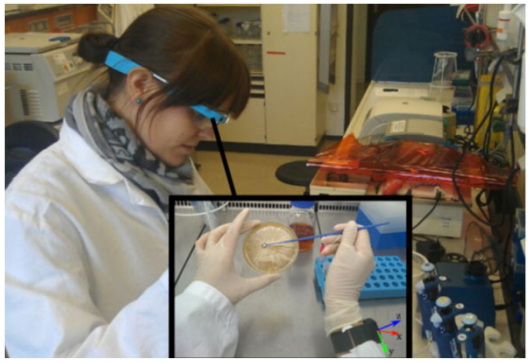
Research

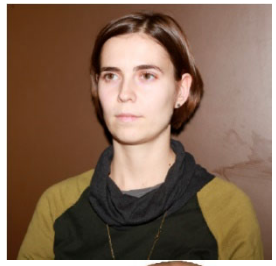
Research Opportunities

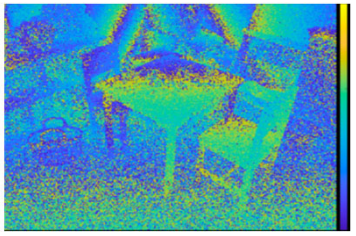
The Department of Electrical Engineering & Computer Science offers a large variety of research projects in different areas in which Computer Science Master students can get involved.

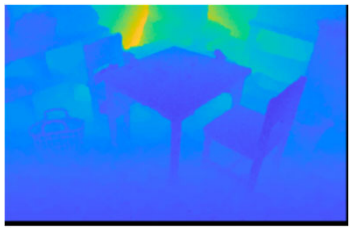
Major fields of research are:

- ***Computational Sensorics***
- ***Computer Vision***
- ***Computer Graphics***
- ***Data Communication***
- ***Distributed Systems***
- **Embedded Systems**
- **Imaging Sensors**
- **Machine Learning**
- **Ubiquitous Computing**









Course Structure

	1. Semester	2. Semester	3. Semester	4. Semester
3 ECTS	Cutting Edge Research	Project Work		Master Thesis
3 ECTS				
3 ECTS	Core Module		Scientific Work. (Seminar)	
3 ECTS		Scientific Work. (*)		
3 ECTS	Core Module	Core Module	Specialization Module	
3 ECTS				
3 ECTS	Core Module	Specialization Module	Specialization Module	
3 ECTS				
3 ECTS	Specialization Module	Specialization Module	Specialization Module	
3 ECTS				

(*) Note: this is a block course that takes place at the end of February or the beginning of March!

- 4 core modules (6 CP each)
- 6 specialization modules (ES or VC; 6 CP each)
- Project work (individual or in a group)
- Cutting Edge Research: Insight into research projects of Computer Science chair at the University of Siegen
- Scientific Working (including seminar)

Modules

- Core modules (6 CP each):
  - Courses taught in English:
    - Winter term: Algorithms I, Computer Architecture II, Parallel Processing
    - Summer term: Modeling and Animation, Advanced Logic, Embedded Systems
  - Courses taught in German: Computer Networks II (summer), Software Engineering II (summer), Data Base Systems II (summer)
- Scientific Working = Block course + Seminar
  - Block course after the lecture period

UNISONO: Campus Management System

- After enrollment to the CS master, you will find all courses of your study program in UNISONO
- You have to register for courses and exams and can track the status of your registration
- Only suitable specialization modules should be visible and selectable based on your study focus (selected at enrollment)
- You can track your credits directly in UNISONO and you can print out study certificates

- In case of problems contact the mentor of the study focus or the examination office

unisono

Obligatory Modules

- Additional obligatory courses are listed on your admission letter
- Procedure:
  - Contact the lecturer, he/she will give you course material
  - The add. obligatory courses will be added to UNISONO
  - After preparation, register for the exam and make an appointment
  - Add. obligatory courses must be completed before starting the Master thesis
- The most common add. obligatory courses and lecturers:
  - Digital Image Processing → Prof. Möller
  - Formal Languages & Automata → Prof. Lohrey
  - Operating Systems & Distributed Systems → Prof. Wismüller
  - Software Engineering → Prof. Lochau
  - Digital Design → Prof. Obermaisser
  - Computer Graphics → Prof. Kolb

Further Course Information

- Details regarding the enrollment process https://www.uni-siegen.de/starting/registration/index.html.en
- Lecture period in this winter term is October 7th 2024, to Janury 31st, 2025
- General information to the CS master see http://www.master-cs.eti.uni-siegen.de/
- Timely registration for your courses in UNISONO is crucial! This is the only way for teachers to contact you!
- UNISONO hints can be found here:
  - https://www.uni-siegen.de/phil/studium/studienorganisation/leitfaeden/enrolling_for_courses_in_unisono_2022.pdf
  - https://www.youtube.com/watch?v=zDIJMgpVkeE

Further Course Information

- Lecture format @ U Siegen: **In presence**
  - Int. Master courses are (mainly held hybrid or provide alternative digital (e.g., video) material until **mid of November**
  - Contact your lecturer to get specific information
- Examination formats
  - The examination formats are given in the examination regulations / module handbook and are communicated in each course
- Do I need to come to Siegen?
  - Yes, we will provide hybrid/digital formats only until mid of November
  - Teamwork and study groups are a key to success
  - Stay in touch with your classmates
- Student representatives (FSR)
  - Telegram: https://t.me/joinchat/AOIQo0uJFdng99O3Xb1lng

German Courses

Das Sprachenzentrum

UNIVERSITÄT SIEGEN
Sprachenzentrum

Sprachkurse in DaF, Englisch, Spanisch und 11 weiteren Sprachen
Language courses in DaF, English, Spanish and 11 others languages

Sprachcafé
Language Café

TestDaF
Test Deutsch als Fremdsprache

Fachsprachen und Kurse zu Schlüsselkompetenzen
Languages for Specific Purposes and courses on key skills

onSET
online-Spracheinstufungstest

ETS TOEIC
ETS TOEFL

Sprachlerntandem
Language Tandem

Exkursionen
Excursions

Filmabende
Movie nights

Anmeldung über unisono
Register via unisono

QVM-Projekte: Arabisch, Portugiesisch, Finnisch
QVM projects: Arabic, Portuguese, Finnish

www.uni-siegen.de/sprachenzentrum

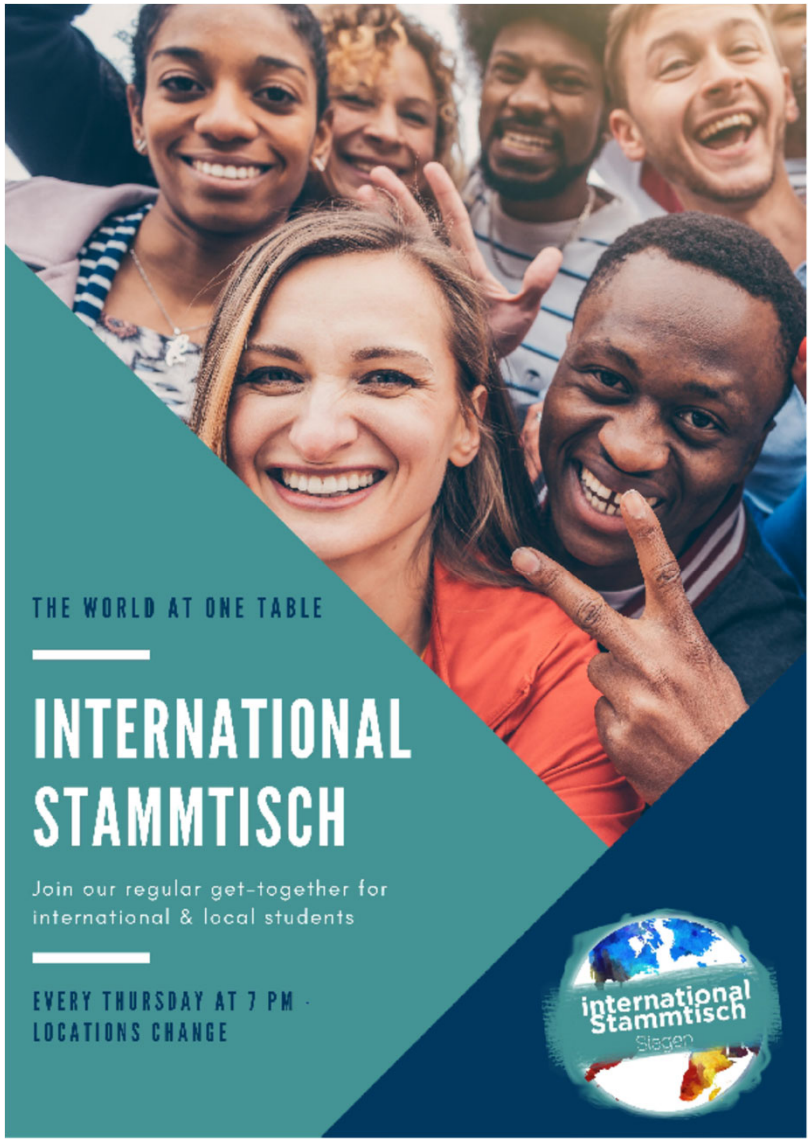
Examination Office

(see separate slides)

Administrative Roles

- STARTING (https://www.uni-siegen.de/start/international/services/starting)
  - Application/ Admission
  - Enrollment, , issuing the USi-Card, re-registration, leave of absence, change of degree program and exmatriculation
- IO (International Office, https://www.uni-siegen.de/start/international/services/io/index.html.en)
  - Various information for newcomers, see https://www.uni-siegen.de/incoming/programs/orientation/degree.html.en
  - Counseling and support during studies (e.g., authorities)
- EE and Computer Science Department
  - Application/ Admission
  - Orientation events at the beginning of studies
  - Academic advising and academic support

Further Student Support



Contact

Mentors:
- Embedded Systems: Prof. Roman Obermaisser
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- Visual Computing: Prof. Andreas Kolb
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Examination office:
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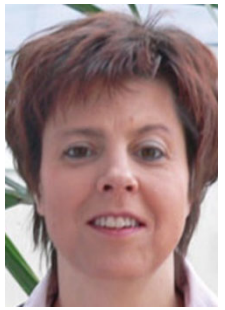
Chair of the examination committee:
Prof. Dr. Roland Wismüller
roland.wismueller@uni-siegen.de


R. Obermaisser


A. Kolb


A. Baule


F. Afzal


S. Niet


R. Wismüller