# 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

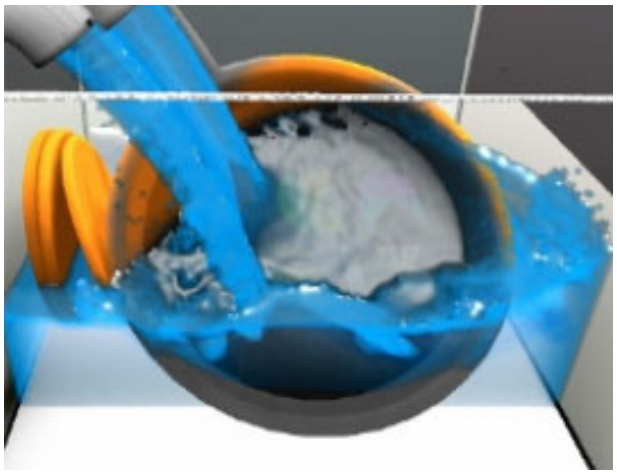


## Study Environment

- 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

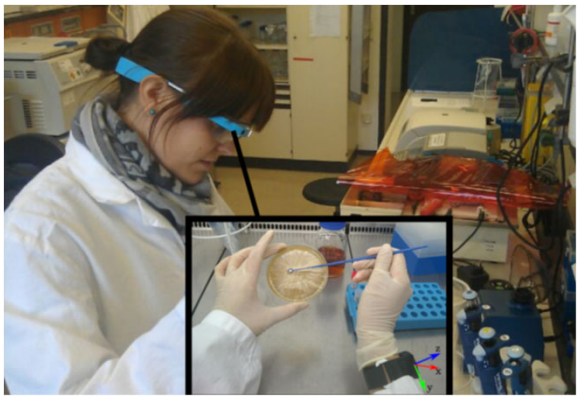


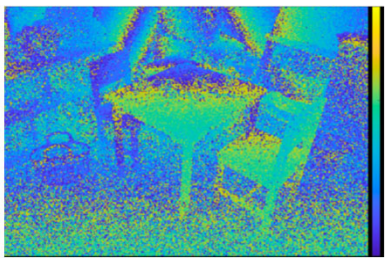
## Research Opportunities

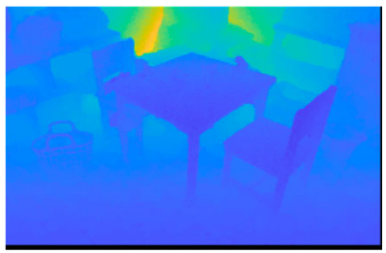
The Department of Electrical Engineering & Computer Science offers a large variety of research projects in different areas in which Computer Science Master students can get involved.

**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 | | | | |

- 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, Software Engineering II, Database Systems II
  - Courses taught in German: Computer Networks 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 13th 2025, to February 6th, 2026
- 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

UNIVERSITÄT SIEGEN
Sprachenzentrum

## Das Sprachenzentrum

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

Sprachcafé
Language Café

onSET
online-Spracheinstufungstest

TestDaF
Test Deutsch als Fremdsprache

ETS TOEIC
ETS TOEFL

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

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

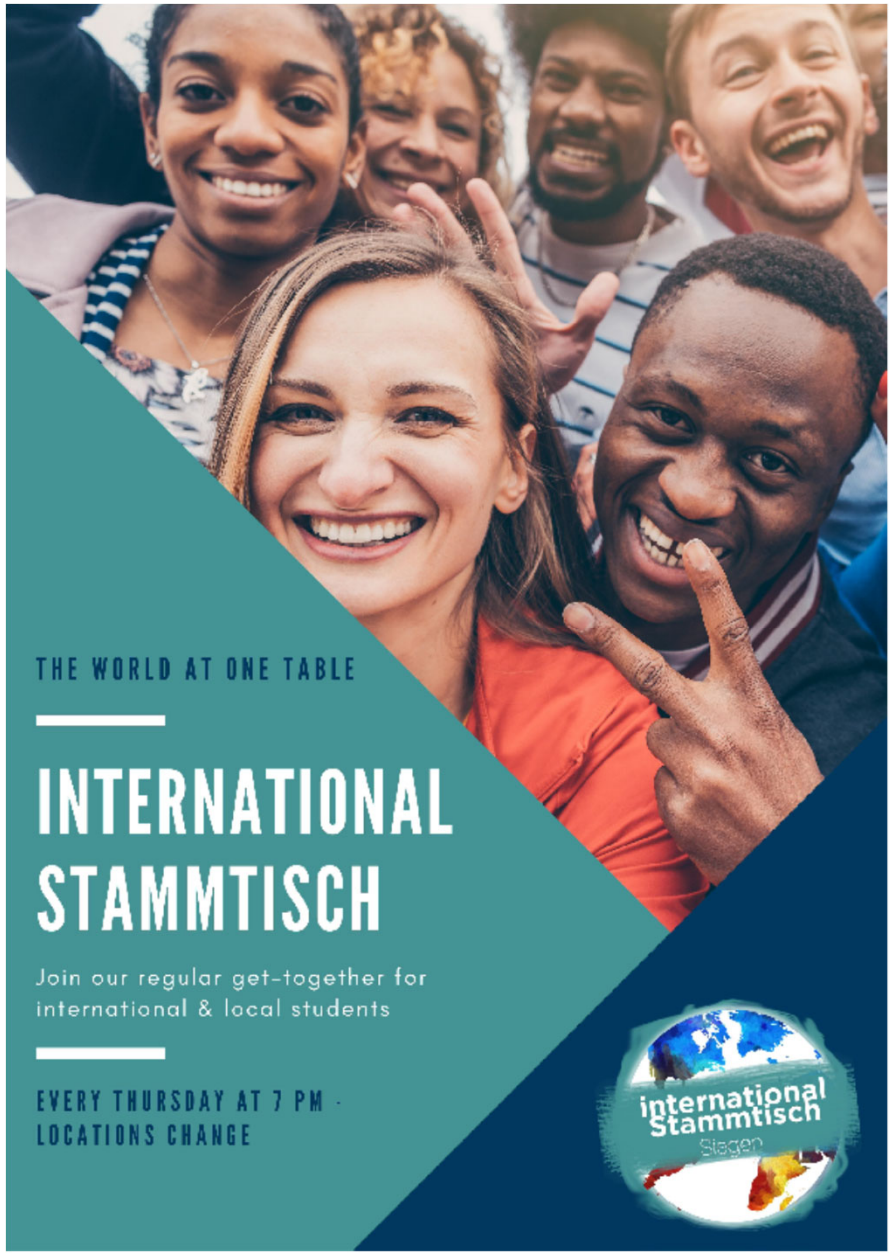
(see separate slides)

# 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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R. Obermaisser

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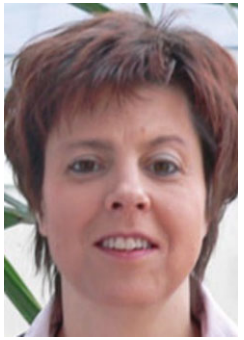
S. Niet

R. Wismüller

**Chair of the examination committee:**
Prof. Dr. Roland Wismüller
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