Master of Science
Computer Science
Welcome to the University of Stuttgart
Dr. Katrin Schneider
Overview

• Who is who?
• Your advisor
• General plan of the program
• Exam regulations, exam registration,
• Module handbook
• Platforms: C@MPUS, ILIAS
• Further hints
• Questions?
Who is who?
Who is who?

Dean of the faculty: Prof. Dr.-Ing. Manfred Berroth
• Highest representative

Dean of the study programs: Prof. Dr. Stefan Funke
• Responsible for the study programs of the department

Head of the examination board of the program M.Sc. Computer Science
Professors for the Major Autonomous Systems

Prof. Dr. Sven Simon
Institute for Parallel and Distributed Systems
Section Parallel Systems

Prof. Dr. Kurt Rothermel
Institute for Parallel and Distributed Systems
Section Distributed Systems
Professors for the Major Service Technology and Engineering

**Prof. Bernhard Mitschang**
Institute for Parallel and Distributed Systems – Section Applications of Parallel and Distributed Systems

**Prof. Frank Leymann**
Institute of Architecture of Application Systems

**Prof. Melanie Herschel**
Institute for Parallel and Distributed Systems – Section Data Engineering

**PD Dr. Holger Schwarz**
Institute for Parallel and Distributed Systems – Section Applications of Parallel and Distributed Systems
Professors for the Major Visual Computing

Prof. Dr. Thomas Ertl
Institute for Visualization and Interactive Systems – Section Graphic-Interactive Systems

Prof. Dr. Daniel Weiskopf
Institute for Visualization and Interactive Systems – Section Visualization

Prof. Dr. Andrés Bruhn
Institute for Visualization and Interactive Systems – Section Intelligent Systems

Jun.-Prof. Dr. Niels Henze
Institute for Visualization and Interactive Systems – Section Socio-Cognitive Systems
If you need help / in case of any questions

Andrea Glaser
Student Advisor
Institute for Natural Language Processing
Pfaffenwaldring 5b; Room 0.014

Dr. Katrin Schneider
Program Manager
Central Service Computer Science
Universitätsstraße 38; Room 1.416
Your Advisor
Your Advisor

• Exam regulations require an advisor for every student
  • Individual plan for the 1st and 2nd year of the program has to be verified by the advisor
  • Advisor supports students in planning the individual curriculum
  • Great variety of elective & catalogue modules - advisor can give hints for useful combinations

• Advisor
  • can be a professor or member of research staff of the Computer Science department
  • helps to finish the program successfully
  • will be decided during the first semester
  • you will get an email once they are chosen
# Progress certificate MSc Computer Science

**Name:**

**Matriculation number:**

**Major (study profile):**

**Advisor:**

<table>
<thead>
<tr>
<th>Selected modules from <strong>CORE</strong> for the chosen profile (24 Credits)</th>
<th>Grade</th>
<th>Confirmation by advisor</th>
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</thead>
<tbody>
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</table>

<table>
<thead>
<tr>
<th>Selected module from <strong>EXTENDED</strong> for the chosen profile (12 credits)</th>
<th>Grade</th>
<th>Confirmation by advisor</th>
</tr>
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<table>
<thead>
<tr>
<th>Selected modules from <strong>BREADTH</strong> for the chosen profile (12 credits)</th>
<th>Grade</th>
<th>Confirmation by advisor</th>
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<thead>
<tr>
<th>Selected <strong>ELECTIVE</strong> modules (30 credits)</th>
<th>Grade</th>
<th>Confirmation by advisor</th>
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**Obligatory Modules**

- Theoretical & methodological foundations of:
- Advanced seminar:
- Key Qualification:

**Any additional modules (that do not belong to one of the other categories)**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Confirmation by advisor</th>
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</table>
General plan of the program

### MSc Computer Science (International/English)

**Majors ("Studienprofile"): Visual Computing, Service Technology and Engineering, Autonomous Systems/CS**

<table>
<thead>
<tr>
<th>Term</th>
<th>Compulsory</th>
<th>Breadth</th>
<th>Core</th>
<th>Core</th>
<th>Extended</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Theoretical and Methodological Foundations</td>
<td>6</td>
<td>Catalog Breadth</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>Seminar</td>
<td>3</td>
<td>Catalog Breadth</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>Key Qualifications (SQ)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Options: Catalogs, Research Project, &quot;Fachpraktikum&quot;, External Courses (&quot;Nebenfach&quot;), Studies Abroad</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Master Thesis</td>
<td></td>
<td></td>
<td></td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>
Plan of the program

• Suggestion how to go through the program – changes in the order of modules are allowed

• Contains information about:
  • Compulsory subjects
    • Theoretical & Methodological Foundations of … (6 CP)
    • Advanced seminar Computer Science (3 CP):
      • Seminar to get acquainted with research methodologies and scientific work
    • Key qualifications (3 CP)
      • Obligatory for all students of the University – registration necessary (previous to the start of the semester)
Plan of the program

• Catalogue modules

• Specific contents for each major – rules:
  • 4 modules from CORE (in total 24 CP)
  • 2 modules from EXTENDED (in total 12 CP)
  • 2 modules from BREADTH (in total 12 CP)
  • ELECTIVES (3rd semester): further modules (in total 30 CP) from the catalogues (CORE, EXTENDED, BREADTH) – also from the other majors of CS, or from other Master programs of the University of Stuttgart
  • Modules from bachelor programs can be used to a maximum of 6 CP for Extended, 6 CP for Breadth and 6 CP for Elective (in total at most 18 CP) – only when confirmed by the examination board
  • Examination board can decide to include further modules in the catalogues, if necessary
### Plan of the program

- **Last semester: Master thesis**
  - Only a professor from the Computer Science Department is allowed to define a topic
  - You have to have at least 60 CP to start
  - **Rules for Master thesis:**
    - Duration: 6 months – can be extended ONCE by at maximum 3 months (only for certain reasons; examination board will decide)
    - Has to be written in English + a talk has to be given
    - Guidelines how to hand in the Master thesis
    - Will be evaluated by 2 professors
    - Can be repeated only once
Exam regulations + exam registration
Exam regulations

• Binding version in German; indicative version in English
• Describe what is possible or not during the program
• Summary (see also handout):
  • 4 semesters = normal duration of the program
  • At most 9 semesters (please check your visa & ask the German embassy or the consulate of your home country – not all students are allowed to stay longer than 4 semesters)
  • Lists all obligatory modules & describes the restrictions for the catalogues and the elective modules
Exam regulations

• Regarding examinations
  • You have to be enrolled as a student to be allowed to participate in exams
  • Exams can be oral or written: PL (written/oral exam), BSL (graded course achievement), USL (ungraded course achievement)
  • You have to register for exams
  • You can de-register from any exam until 7 days before it takes place – later de-registration is only possible when you are ill (doctor’s certificate!) & examination board has to decide about the acceptance or rejection of the certificate
  • You cannot de-register from exam repetition
Exam regulations

• Exam repetition:
  • You can only repeat exams you have failed
  • One repetition is allowed for each exam – no influence on the grade
  • 2nd repetition is allowed only 3 times during the whole program
  • If a student fails a 2nd repetition, an oral exam will follow 2 to 6 weeks later
  • Repetitions have to be carried out at the next possible date of the exam (in general after the following semester) + you have to register for it!
Exam registration

- One online registration period in each semester
  - You are not allowed to attend exams without having registered during this period
- Online via the C@mpus-System
  - Login & password necessary
  - Registration, de-registration, overview over your credits
  - For oral exams, also inform the responsible lecturer / professor
- Hints:
  - Sometimes de-registration is not possible via LSF => examination board (oral exams)
  - To be sure, take a screenshot of your (de-)registrations
Module handbook
Module handbook

- Collection of all modules that belong to a program
- Can be found in the C@mpus system
- If a module is not mentioned in the MHB, it is not part of your program, BUT
  - you can ask the examination board for permission to use it for your program (with good motivation)
- Each module description includes an overview over contents/aims, name of the person responsible & the lecturer, no. of CP, SWS, literature, exam number, …
- Sometimes there’s a difference between English and German version – please check both!
Platforms: Campus and ILIAS
Online platform for
- the current courses and their modules
- creating a personal schedule
- downloading certificates
- Login (st-account@stud-uni...) & password
- http://campus.uni-stuttgart.de

And new from this semester on:
- Registering / de-registering exams
- Overview of your personal examination results (gained credit points)
• Online platform for
  • providing slides & further seminar/exercise information
  • in some cases, registration for a course is required – different modes possible (direct access to a course, password necessary, …)
• Login (st-account) & password
• https://ilias3.uni-stuttgart.de
• However: now the courses are linked from C@mpus to ILIAS – it will be better to look in C@mpus for the course link to ILIAS than searching in ILIAS for a course
Schedules for the majors (handed out)
## Courses offered

### Academic year 2016/17

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Duration</th>
<th>Type</th>
<th>Lecturer/Assistant</th>
<th>Language</th>
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<tbody>
<tr>
<td>20200000W</td>
<td>Grundlagen der Informatik (IB) und für Geodaten/Geoinf. und Erneuerbare Energien</td>
<td>W</td>
<td>2</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>20300000W</td>
<td>Grundlagen der Informatik (IB) für Studiengang Geodaten und Geoinformatik</td>
<td>W</td>
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<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>20400000W</td>
<td>Diskrete Optimierung/Diskrete Optimierung</td>
<td>W</td>
<td>3</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>20500000W</td>
<td>Diskrete Optimierung/Diskrete Optimierung</td>
<td>W</td>
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<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>20600000W</td>
<td>CAD/CAM Technologie</td>
<td>W</td>
<td>3</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>20700000W</td>
<td>Digitale Ingenieurtechnik</td>
<td>W</td>
<td>2</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>20800000W</td>
<td>Grundlagen der Künstlichen Intelligenz</td>
<td>W</td>
<td>3</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>20900000W</td>
<td>Lab Course/Fachpraktikum: Elements of High-Performance RISC Processors: Design and Synthesis</td>
<td>W</td>
<td>4</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
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<tr>
<td>21000000W</td>
<td>Computer Vision and Intelligent Systems</td>
<td>W</td>
<td>4</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
</tr>
<tr>
<td>21100000W</td>
<td>Programmierung und Compilerbau</td>
<td>W</td>
<td>3</td>
<td>L</td>
<td>C. Bockmayr</td>
<td>German</td>
</tr>
</tbody>
</table>

### Modules

**Studying in Study Plans**

- **Search**
  - **Available Courses**
  - **Search Courses**
  - **Search Term**

- **Enrollment Status**
  - **Select Courses**
  - **Approve Courses**
  - **Withdraw Courses**

**Note:** For detailed information, please refer to the full course catalog available on the university's official website.
Some further hints ...
Some further hints …

• Create a pool account here in the building
  • Go to help desk in the pool near the southern entrance of the building (student ID card)
  • Forward your student mail to your private account if you don‘t read it directly!

• If you‘re on the waiting list for a dorm, make sure that you confirm regularly at the „Studierendenwerk“ that you‘re still searching for a room

• Some institutes offer block courses; please check the institutes‘ websites

• The International Center offers lots of help for international students
Dates to save ...

- Exam registration this semester: November 15 to November 30
- Days without lectures:
  - October 31
  - November 1
  - Christmas holidays: December 23 to January 7
  - End of lecture period (start of exam period): February 10
- Welcome reception for the international students of our faculty: October 27 at 17:30 in the ground floor of this building (and lecture hall 38.04)
Do you have any questions?

Andrea Glaser and Dr. Katrin Schneider

e-mail  andrea.glaser@ims.uni-stuttgart.de; katrin.schneider@informatik.uni-stuttgart.de

University of Stuttgart
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