



Universität Stuttgart



Stefanie Anstein
student advisor

WELCOME
to the program
Master of Science
Computer Science

September 2024

Overview

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Who is who?

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General responsibilities

- **Dean of the study programs: Prof. Dr. Andrés Bruhn**
Responsible for the organization of all study programs of the department
<https://www.vis.uni-stuttgart.de/en/institute/team/Bruhn-00001>



- **Head of the examination board of the program M.Sc. Computer Science: Prof. Dr. Marco Aiello**
Responsible for deadline extensions, registration withdrawals, etc.
<https://www.iaas.uni-stuttgart.de/en/institute/team/Aiello-00001>



In case of any organizational questions ...

- **Dr. Stefanie Anstein:**

Student Advisor / Co-program manager

Pfaffenwaldring 5b, office 1.006

<https://www.ims.uni-stuttgart.de/institut/team/Anstein-00002/stefanie.anstein@ims.uni-stuttgart.de>



- **Dr. Katrin Schneider:**

Program manager

Universitätsstr. 38, office 1.416

www.f05.uni-stuttgart.de/fakultaet/personen/Schneider-00001/katrin.schneider@informatik.uni-stuttgart.de



In case of any general questions ...

International Service Point Faculty 5



Complementary to the services of the university's International Office:

- Support and contact point for the faculty's international students
- Promoting further internationalization at Faculty 5
- Events & networking activities for and with international students

Stay informed!

- [ISP Website](#)
- [Monthly mailing - Faculty 5](#)
- Follow [Meta](#) & [Laura](#) on LinkedIn



Meta Geisbüsch, LL.M. & Laura Busch, M.A.

International Service Point (ISP) | Faculty 5
University of Stuttgart
Pfaffenwaldring 47 | Room 4.270
internationalstudents@f05.uni-stuttgart.de

Upcoming events for international students of Faculty 5

International Days at Faculty 5:

- Going Abroad Session | Nov 11
- International Study Fair | Nov 12
- Indian Night | Nov 14
- Partner Universities Online Sessions | Nov 19 & Nov 21

Career Workshop "Fit for the German job market: How to find jobs and apply successfully" | Nov 20

Semester Opening Faculty 5 | Nov 28

Welcome Days at the university's **International Office**
(IZ): October 9 & 10



Our monthly mailing!

Stay up to date on **important information and events for international students of our faculty!**

Sign up!



Your academic advisor

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An academic advisor ...

- can support you in planning your individual curriculum
- can help you to decide about useful combinations of modules from a great variety of modules to be chosen from
- can be assigned according to your chosen major

Please contact Stefanie (stefanie.anstein@ims.uni-stuttgart.de) if you're interested.

In general, you're expected to take full responsibility and be pro-active!

Please also be aware that German authorities don't make exceptions – we expect everyone to accept that “no” means “no”.

General plan of the program

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Study plan suggestion (flexible; you decide about the order of modules)

M.Sc. Computer Science (English), University of Stuttgart

Majors („Studienprofile“): Autonomous Systems / Service Technology and Engineering / Visual Computing

study plan suggestion (flexible)

Semester	Compulsory modules	Catalog Core* [24CP]	Catalog Extended* [12CP]	Catalog Breadth* [12CP]	Catalog Elective* [30CP]	total ECTS credit points**
1	Theoretical and Methodological Foundations of <major>*** [6CP]	Core modules worth 12CP	Extended modules worth 6CP	Breadth modules worth 6CP		30
2	Advanced Seminar Computer Science**** [3CP]	Core modules worth 6CP	Extended modules worth 6CP	Breadth modules worth 6CP	Elective modules worth 6CP	30
	Key Qualification („SQ“)**** [3CP]					
3		Core modules worth 6CP			Elective modules worth 24CP	30
4	Master's thesis [30CP]					30

*) The modules offered in the catalogs can be found in [C@MPUS](#).

**) 6CP are typically gained by 3V(lecture)+1Ü(exercise) = 4SWS/SH = 3h/week.

**) Either offered in winter or summer term.

****) To be taken in the second semester at the earliest.

Compulsory subjects

- Theoretical & Methodological Foundations of <your major> (6 CP; either offered in winter or summer term; filled with a course with a different name)
- Advanced Seminar Computer Science (3 CP; 2nd semester earliest):
 - seminar to get acquainted with research methodologies and scientific work
- Key qualification (3 CP; 2nd semester earliest):
 - obligatory for all students, free choice from large offer – registration necessary (previous to the start of the semester)

Catalog modules

- specific contents for each major – rules:
 - 24 CP from CORE
 - 12 CP from EXTENDED
 - 12 CP from BREADTH
 - 30 CP ELECTIVES
 - 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 if confirmed by the examination board
 - examination board can decide to include further modules in the catalogues, please send a request via S. Anstein

Master thesis

- you can register your thesis once you've gained 60 CP
- duration: 6 months

Example study plan for the major AUT

MSc Computer Science (English)

Example study plan for Major Autonomous Systems in Computer Science started in a summer term

Term	Compulsory	Breadth	Core	Core	Extended	ECTS
1		Advanced Information Management OR Data Engineering 6	Reinforcement Learning 6 Knowledge Graphs 6	Machine Learning 6	Mobile Computing OR Robust System Design 6	30
2	Theoretical and Methodological Foundations of Autonomous Systems 6 Advanced Seminar 3 Key Qualifications (SQ) 3	Information Integration OR Data Warehousing, Data Mining, and OLAP 6	Probabilistic Machine Learning 6		Embedded Systems Engineering OR Design for Reliability in Advanced Technology 6	30
3	Lab Course Artificial Intelligence OR Practical Course Information Systems 6	Virtual and Augmented Reality OR Scientific Visualization 6	Deep Learning OR Detection and Pattern Recognition 6	Analyzing Software using Deep Learning OR High-dimensional data approximation and learning 6	Software Engineering for AI-Based Systems OR System and Web Security 6	30
4	Master Thesis					30

Legend

6 ECTS typically are 3 lecture hours + 1 exercise hour per week. 3 ECTS typically are 2 lecture hours or 2 seminar hours per week

Example study plan for the major STE

MSc Computer Science (English)

Example study plan for Major Service Technology and Engineering started in a summer term

Term	Compulsory	Breadth	Core	Core	Extended	ECTS
1		Machine Learning OR Reinforcement Learning	Data Engineering	Advanced Information Management	IT Service Management OR High-dimensional data approximation and learning	30
2	Theoretical and Methodological Foundations of Service Technology and Engineering	Embedded Systems Engineering OR Real-time Concepts for Embedded Systems	Information Integration	Data Warehousing, Data Mining, and OLAP	Business Process Management OR Service Management and Cloud Computing, and Evaluation	30
	Advanced Seminar					
	Key Qualifications (SQ)					
3	Practical Course Visual Computing OR Laboratory Course Artificial Intelligence	Mobile Computing OR Analyzing Software using Deep Learning	Knowledge Graphs OR Machine Perception and Learning	Security and Privacy OR System- and Web Security	High Performance Computing OR Software Engineering for AI-based Systems	30
4	Master Thesis					30

Legend

6 ECTS typically are 3 lecture hours + 1 exercise hour per week. 3 ECTS typically are 2 lecture hours or 2 seminar hours per week

Example study plan for the major VC

MSc Computer Science (English)

Example study plan for Major Visual Computing started in a summer term

Term	Compulsory	Breadth	Core	Core	Extended	ECTS
1		Knowledge Graphs OR System and Web Security	Scientific Visualization	Virtual and Augmented Reality	Correspondence Problems in Computer Vision OR Machine Perception and Learning	30
2	Theoretical and Methodological Foundations of Visual Computing	Simulation Software Engineering OR Distributed Systems I	Computer Vision	Information Visualization and Visual Analytics	Practical Course Visual Computing OR Practical Course Information Visualization	30
	Advanced Seminar					
	Key Qualifications (SQ)					
3	Laboratory Course Artificial Intelligence OR High Performance Computing	Security and Privacy OR High-dimensional data approximation and learning	Mobile Computing OR IT Service Management	Detection and Pattern Recognition OR Deep Learning	Analyzing Software using Deep Learning OR Software Engineering for AI-based Systems	30
4	Master Thesis					30

Legend

6 ECTS typically are 3 lecture hours + 1 exercise hour per week. 3 ECTS typically are 2 lecture hours or 2 seminar hours per week

Exam regulations & exam/module registra- tion

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Exam regulations

- binding version in German & indicative version in English:
www.student.uni-stuttgart.de/en/study-programs/Computer-Science-M.Sc-00002./?page=examinations
- lists all obligatory modules & describes restrictions for the catalog modules, states (repetition) rules, deadlines etc.
- info on extensions and exceptions etc. (for academic accommodations due to special circumstances see also www.student.uni-stuttgart.de/en/organizing-studies/disability)
- most important rules (see also handout):
 - 4 semesters = regular duration
 - max. 9 semesters (independent of visa)
 - 4 SWS/SH/SSt = “Semesterwochenstunden” = 3h per week (2x90min) = 6 ECTS credit points
 - 1 ECTS credit point = 30h student’s time (workload and weighting for average)

Exam regulations – regarding examinations

- exams can be written or oral: PL (written/oral exam), BSL (graded course achievement), USL (ungraded course achievement)
- graded exam:
1,0 (excellent) / 1,3 / 1,7 ...– 4,0 (acceptable)
- hint: there might be some preconditions to fulfill in order to be allowed to take part in an exam, e.g. homework etc.
- you have to register for exams in C@MPUS
- you can de-register from an exam until 7 days before it takes place – later de-registration is only possible if you hand in a doctor's certificate (examination board will decide about its acceptance)
- you cannot de-register from exam repetitions

Exam regulations – regarding exam repetitions

- you can only repeat exams you have failed
- one repetition is allowed for each failed exam – no influence on the grade
- 2nd repetition is allowed only 3 times during the whole program (contact us if you're in that situation)
- 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 them

Exam registration

- one online registration period for binding exam registration in each semester via the C@MPUS system
- you are not allowed to attend exams without having registered during this period
- dates: www.student.uni-stuttgart.de/en/exams/deadlines
- hints:
 - sometimes de-registration is not possible via C@MPUS ⇒ contact examination board (e.g. oral exams)
 - to be sure, take a screenshot of your (de-)registrations

Module handbook

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The module handbook ...

- is a collection of all modules that belong to a program
- each module description includes an overview over contents/aims, name of the person responsible & the lecturer, CP, literature, exam ...
- can be found in the C@MPUS system:

The image shows a screenshot of the C@MPUS system interface. At the top, there is a 'My Degree Program' icon with a graduation cap and the text 'My Degree Program'. Below it, the 'Curriculum' page is displayed for the academic year 2018/19. The curriculum list includes:

- Node filter-Name
- [979-2013] Computer Science
- [100] Study Profiles
- [200] Elective
- [900] Interdisciplinary Key Qualification
- [81150] Masterarbeit Computer Science
- [DV] 3rd attempts

A large black arrow points from the first curriculum item to a preview window titled 'Modulhandbuch Studengang Master of Science Computer Science'. The preview window shows the title, the examination order 'Prüfungsordnung: 979-2013', the semester 'Wintersemester 2018/19', and the date 'Stand: 01.10.2018'. The footer of the preview window reads 'Universität Stuttgart Kapitel: 7'. The bottom left of the main interface shows the copyright notice: '©2019 University of Stuttgart. All rights reserved. | C@MPUS'.

Platforms: C@mpus and ILIAS

C@mpus is the online platform for ...

- finding the currently offered courses and their modules
 - creating a personal schedule (via **non-binding** registration for **courses**)
 - downloading certificates
 - registering exams (via **binding** registration for **modules**) and de-registering
 - getting an overview of your personal examination results (gained credit points; transcript)
-
- <http://campus.uni-stuttgart.de>
 - login (st1234567@stud-uni...) & password

ILIAS is the online platform for ...

- finding slides & further seminar/exercise information (you get linked to the courses via C@mpus; in some cases, registration is required)
- uploading exercise solutions etc.

- <https://ilias3.uni-stuttgart.de>
- login (st account) & password

The screenshot shows the ILIAS interface for the University of Stuttgart. At the top, a dark header reads "Universität Stuttgart - Lehre & Lernen online". Below it is the university logo and the text "Universität Stuttgart". A breadcrumb trail indicates the path: "Repository > Engineering > Computer Science > Lehrveranstaltungen Sommersemester 2019". The main heading is "Lehrveranstaltungen Sommersemester 2019" with a folder icon. Below this are tabs for "Content" and "Info". A green box contains a notice: "Hinweis: Sowohl das Anlegen von jeglichen semester-/lehrveranstaltungsbezogenen ILIAS-Kursen als auch das Übertragen von Kursen in ILIAS geschieht ab dem WS 17/18 nur noch über C@MPUS. Die ILIAS-Kurse werden durch C@MPUS übertragen. Direkt in ILIAS können in dieser Kategorie grundsätzlich keine Kurse mehr angelegt werden." Below this is a "COURSES" section with three entries:

- Advanced Information Management**
Icon: IPMS
Instructor: **PD Dr. Holger Schwarz**, Lecture and exercises, summer term 2019
Registration: No Registration Possible
Availability: 28. Mar 2019, 10:55 - 30. Sep 2020, 23:55
Note: To access this item you need to be logged in and to have appropriate permissions.
- Advanced Software Engineering: Non-Functional Aspects in Software Engineering**
Icon: A chair
Registration: No Registration Possible
Note: To access this item you need to be logged in and to have appropriate permissions.
- Advanced Topics In Data Management**
Icon: IPMS
Instructor: **Prof. Dr. Bernhard Mitschang, PD Dr. Holger Schwarz**, Advanced Seminar, Summer term 2019
Registration: No Registration Possible
Availability: 24. Feb 2019, 13:00 - 30. Mar 2020, 13:00
Note: To access this item you need to be logged in and to have appropriate permissions.

Your schedule

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List of currently offered courses

... can be extracted from C@MPUS directly:

- “My Degree Program” shows the curriculum tree view
- Click on calendar icon for overlaps
- Register for courses (non-binding)
- Find personal schedule in “Calendar”

Finding your courses via C@MPUS:


University of Stuttgart Germany C@MPUS Home

Favourites

- Calendar
- My Examination Dates
- My Achievements
- My Degree Programme
- My Courses
- C@MPUS Documentation

[979-2013] Computer Science Yes 120

[100] Study Profiles Yes

[110] Visual Computing  → schedule Yes


[111] Compulsory Yes

[46760] Theoretical and Methodological Foundations of Visual Computing Yes 6

[46761] Theoretical and Methodological Foundations of Visual Computing Yes 1.

[46762] Vorleistung Yes 1.

[467601] Vorlesung Theoretische und Methodische Grundlagen des Visual Computing Yes 1.

Lectures in academic year	Part	Status	Place (1st session)	Time (1st session)
2019/20	(Assistant)			
020961000 19W 3SH L Theoretical and Methodological Foundations of Visual Computing	 Weiskopf	BF	Universität 38 - V 38.02 (UN38/EGV	14.10.19 11:30 - 13:00

Further hints

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Some further hints ...

- Forward your student mail to your private account if you don't read it directly! We strongly **rely on you reading all our emails** (from different sources and of different relevance, but please keep track!)
- 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! Additional hint: couchsurfing ...
- Some institutes offer block courses (e.g. IAAS); please check the institutes' websites & COMPUS.
- Please be aware that exams may take place during the lecture-free period.
- The International Office, in addition to the ISP, offers lots of help for international students – they're waiting for you to get your welcome package there!

Some more further hints ...

- Open learning space for maths and computer science questions: www.mint.uni-stuttgart.de/angebote/offener-lernraum
- “Makerspace” on campus Vaihingen for conducting individual projects: <https://uni-stuttgart.de/maked-digital>
- German language course advisable (via “Language Center” in C@MPUS, or self-organized as “Tandem”)
- further institutions to get information & help:
 - Examination Office & Admissions Office
 - Pfaffenwaldring 5c
 - International Office (*Internationales Zentrum*)
 - welcome service
 - international mentoring, learning groups, psycho-social counselling, student associations, leisure activities, help with German forms, career service etc.
 - Pfaffenwaldring 60

Even more further hints ...

further institutions to get information & help:

- Student Services (*Studierendenwerk*)
 - housing, childcare, legal advice, social advice, psychological support, finances, disabilities, ...
 - <https://www.studierendenwerk-stuttgart.de/en>
- Student representatives CS
<https://fius.informatik.uni-stuttgart.de/index.php/en/startpage/>
 - support among students (e.g. old exams, social life etc.)
- “Ombudsperson”: a neutral and confidential contact person for people in need of support in university conflicts:
www.student.uni-stuttgart.de/en/counseling/ombudsperson
- Student Counseling Center (*Zentrale Studienberatung*)
 - general and specific questions, e.g. disabilities, chronic illness
 - contact point for all unclear issues
 - courses on studying efficiently etc., see <https://www.student.uni-stuttgart.de/en/counseling/zsb/learning-counseling/>
 - Pfaffenwaldring 5c



Universität Stuttgart
Zentrale Studienberatung(ZSB)

Learning Counseling in the Student Counseling Center

Tips and advice for successful learning

- Learning skills newsletter in the winter semester
- Counseling for individual students and learning groups
- Workshops:
 - *Learning methods and exam preparation*
 - *Learning regularly, avoiding procrastination*



Contact for appointment & newsletter subscription:
lernberatung@uni-stuttgart.de

Even more further hints ...

further institutions beyond the university to get information & help:

- Welcome Center Stuttgart
(<https://welcome.stuttgart.de/welcomecenter/en/>)
 - help in many areas for new students: Welcome Club, Job Centre etc.
- German job centre 'Agentur für Arbeit':
<https://www.arbeitsagentur.de/en/welcome> (student job board etc.)
- Nightline Tübingen: an anonymous, confidential, unprejudiced and independent evening hotline (also available in English):
<https://nightline-tuebingen.de/>

Some dates to save ...

- online seminars by the IZ:
<https://www.student.uni-stuttgart.de/en/startingout/international/orientation-days>
- binding module exam registration period: Nov. 13 - Dec. 04, 2024;
lecture breaks and public holidays (shops etc. closed!): see
<https://www.uni-stuttgart.de/en/study/application/academic-calendar>

In case of any questions ...

... please ask:

- **Stefanie Anstein**

co-program manager, student advisor &

contact person examination committee

(office: 01.006 in Pfaffenwaldring 5b)

stefanie.anstein@ims.uni-stuttgart.de

If in doubt, please ask – the sooner the better! :)

(... and please use cc instead of single e-mails

if you contact several persons about the same issue, thanks.)

By the way, we're always grateful for feedback about

how we could improve our services (websites, advising etc.)!

- (for more general issues):

Meta and Laura at the International Service Point of faculty 5

www.f05.uni-stuttgart.de/studium/international-service-point/

- (for student-related issues):

CS student representatives

<https://fius.de/index.php/en/startpage/>

WELCOME again ...

... at the University of Stuttgart!

Time for questions!