



WELCOME

to the program

Master of Science



Overview

1 Introduction – who we are ...

2 Program of study: M.Sc. CL

- 3 Further useful information
- 4 Next steps

Introduction – who we are ...

IMS chairs / departments / research clusters

 Prof. Jonas Kuhn, Prof. Schulte i. W. & many more: structural processing / syntax, text studies, semantic relations, computational social science, digital humanities, research infrastructure & much more

- Prof. Thang Vu, Dr. Schweitzer, Dr. Wokurek & many more: digital phonetics, speech recognition/synthesis, spoken language understanding, dialogue systems, deep learning & much more
- Jun.-Prof. Carina Silberer & her group: semantic models via machine learning, language and vision, grounding, computational semantics & much more

More IMS research groups and associated teams

- Emmy Noether Group 'Computational Models of Misunderstanding': Dr. Michael Roth
- BMBF group E-DELIB
 'Powering up E-DELIBeration: towards Al-supported moderation':
 Dr. Gabriella Lapesa
- Junior professorship 'Psycholinguistics and Cognitive Modeling': Jun.-Prof. Dr. Titus von der Malsburg
 - human sentence comprehension
 - experimental research using eye-tracking, large-scale crowdsourcing, electric brain potentials etc.
 - computational cognitive modeling
- SimTech Tenure-Track Professorship 'Computational Cognitive Science': Jun.-Prof. Dr. Benedikt Ehinger
 - visual cognitive science
 - behavioral, EEG and eye-tracking experiments
 - statistical modelling
- ... and many more

Student representatives MSV / CL



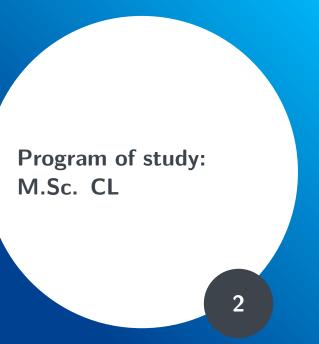
www.msv-cl.de

International Service Point (ISP) of our Faculty





- support and contact point for the faculty's international students
- promoting further internationalization at our faculty
- events & networking activities for and with international students
- coordinators: Meta Geisbüsch, LL.M. & Laura Busch, M.A.
 - contact via
 - E-Mail: internationalstudents@f05.uni-stuttgart.de
 - \bullet +49 (0)711 68567926 (Meta) / +49 (0)711 685 67277 (Laura)
 - in person during their office hours in Pfaffenwaldring 47, Room 4.270 or online (on appointment)
 - stay informed via www.f05.uni-stuttgart.de/en/faculty/international-students and LinkedIn



Program of study

- regular duration: 4 semesters (max. duration: 9 sem.)
- consists of several modules
 - module duration: 1-2 semesters
 - can contain 1 (or more) course(s)(= lectures, seminars, lab sessions ...)
- module descriptions: module handbook (PDF; via book icon in C@MPUS – "My Study Program")
- ECTS credit point (CP) = Leistungspunkt (LP)
 - measurement of working load (1 CP = 30h) & weight for the calculation of the final M.Sc. grade
 - 2 SWS/SH/SSt = 1,5h/week = usually 3 CP/semester (there are exceptions, e.g. the "Project Seminar CL" or modules from the linguistics department)
 - 120 CP needed for M.Sc. degree; 30 CP per semester = $20 \text{ SWS} = 10 \times 1,5 \text{h per week}$
 - are given for complete modules

Study plan suggestion (flexible!)

program structure MSc CL PO 2017, Uni Stuttgart

Semester	Obligatory modules	Elective modules	Other	ETCS Credit Points
1 (WiSe)*	Methods in CL ** [8SWS*** 12CP]	Elective courses worth ca. 18CP		30
2 (SoSe)*	CL Team Lab ° [4SWS 6CP]	Elective courses worth ca. 18CP	Key competences °° [2SWS 3CP]	27
	CL Research Module ** [4SWS 9CP]	Elective courses worth ca. 24CP		33
4 (SoSe)*	Master's thesis [30CP]			30
Colour key:	IMS	IMS & Computer Science / Linguistics Departments	across UniS	

^{*)} For a start in the summer semester, it is recommended to interchange obligatory modules.

However, the CL Team Lab is not recommended for 1st semester students without background in CL.

^{**)} Offered in winter semesters

^{***) 2} SWS = 1,5h/week

^{°)} Offered in summer semesters

^{°°)} Is also possible in any other semester

Suggestion for non-CL graduates starting in summer

recommendation for non-CL graduates starting in summer term					
Semester	Obligatory modules	Elective * modules	Other	ETCS Credit Points (CP)	
1 (SoSe)		Elective courses worth ca. 30CP		30	
2 (WiSe)	Methods in CL ** [8SWS*** 12CP]	Elective courses worth ca. 3CP	Key competences °° [2SWS 3CP]	27	
	CL Research Module ** [4SWS 9CP]				
3 (SoSe)	CL Team Lab ° [4SWS 6CP]	Elective courses worth ca. 27CP		33	
4 (WiSe)	Master's thesis [30CP]			30	
Colour key:	IMS	IMS & Computer Science / Linguistics Departments	across UniS		

^{*)} choose 1 of 3 subcatalogs from Electives/CompLing/ as primary catalog with min. 18 CP, the other 2 with min. 6 CP each

^{**)} offered in winter semesters

^{***) 2} SWS/SH = 1,5h/week

^{°)} offered in summer semesters

^{°°)} also possible in semesters 3 or 4

Terminology: catalogs vs. modules vs. courses



Catalogs vs. modules vs. courses

[976-2017] Computational Linguistics ☐ ▲ [300] Elective Modules ⑤ 10]Computational Linguistics 🕓 🥅 🗀 🛕 [3101] Core Computational Linguistics 🕓 🥅 ■ [35210] Topics in Computational Semantics ()
■ 🖾 🔼 [35280] Grammar Formalisms and Grammar Engineering 🕓 🥅 🗉 🕑 [35281] Grammar Formalisms and Grammar Engineering 🕓 🯢 P [35282] Vorleistung 🗆 💵 [352801] Seminar course Grammar Formalisms and Grammar Eng Lehrveranstaltungen im Studienjahr ■ 2021/22 ■ 401317000 21W 4SSt VU H: Syntax 403528000 21W 4SSt VU H: Grammar Formalisms and Grammar Eng

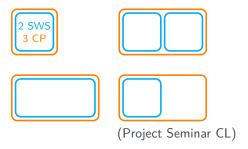
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Important: course-module mapping



Combination modules: choose 2 courses from list



- - 403513500 23S 2SH S Language Technology for Diversity & Inclusion ⊙
 - 403528002 23S 2SH LE Multimodal Semantics ⊕
 - 403848900 23S 2SH S Model projection

 ⊕

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406351600 23S 2SH S Multilinguality and linguistic typology in NLP

Project seminar CL: extend a 3-CP course to 6 CP



🛘 🐧 [724301] Project Seminar Computational Linguistics 🕓 🯢

Lectures in acadamic year ■ 2022/23 ▶	Part
403539000 22W 2SH L Experimental Phonetics	⊗
171235450 23S 2SH AS Acquisition and analysis of eye-tracking data (SoSe 2023)	•
401516000 23S 2SH L Ethics and NLP	•
401516003 23S 2SH S Formal and Computational Approaches to Narrative	•
403513500 23S 2SH S Language Technology for Diversity & Inclusion	•

Details about modules

- "Methods in Computational Linguistics"
 (12 credit points; first (winter) semester; highest priority!)
 - option for MSV/CL graduates: choose 2 advanced courses instead
 - Introduction to Deep Learning for Speech and Language Processing (winter)
 - Statistical Dependency Parsing (winter)
 - Grammar Formalisms and Grammar Engineering (winter; not for Stuttgart MSV graduates)
 - Text Technology (summer)
- "Computational Linguistics Team Laboratory" (6 credit points; second (summer) semester)

Elective modules (60 credit points)

- choose 1 primary sub-catalog (at least 18 credit points) and 2 secondary catalogs (at least 6 credit points each) from the "Computational Linguistics" catalog
- choose primary/secondary catalogs from
 - Core Computational Linguistics
 - Applied Natural Language Processing
 - Speech Processing
- the remaining modules (30 credit points) can be choosen freely from all offered catalogs (largest choice: Computer Science)

Elective modules (60 credit points)

- if a module is not (yet) listed in our module handbook, ask
 S. Anstein if it can be imported (12 CP from Bachelor programs possible)
- special module: "Project Seminar Computational Linguistics" (2 SWS \rightarrow 6 CP by doing additional project on top of an IMS seminar)
- special module: "R&D Practical Project for CL"
 (6 CP for external internship or independent research project)
- Erasmus CPs can also be used as electives

Please note: Each course can be used only once – to prove this and to help us entering your grades, you'll need to submit your course-module mapping each semester (see email reminder). You can find the possible mappings in C@MPUS (via "Course catalog" – "Status within Curriculum").

Key competences (3 credit points)

- ullet modules for general competences ("Schlüsselqualifikation" = SQ)
 - e. g. presentation modalities, time / project / knowledge management, ...
 - can be done in any semester; only online registration possible before semester start: http://www.uni-stuttgart.de/sq
 - can be found in C@MPUS at "Central facilities Central Facility
 Zentrum für Lehre und Weiterbildung der Universität Stuttgart –
 Central office Fachübergreifende Schlüsselqualifikationen Courses"
 - possible at the Language Center: advanced language courses
 - Language Center also offers SQ courses during semester breaks
 - You'll get an email with the registration dates!

Later obligatory modules

- Research module (9 credit points)
 - Research seminar
 - preparing Master's thesis: reading research papers, possibly finding topic for your thesis; grade: writing proposal & presenting thesis & passing oral exam
 - can be taken "remotely" (studying abroad, internship)
 - should be taken in 2nd semester by students who started in summer term
- Master's thesis (30 credit points)
 - need at least 60 credit points to start with Master's thesis

Please note: This is an idealised scheme of the program – you can do it differently, just don't exceed the maximum duration of 9 semesters! For students who start in summer term, an individual plan can be developed together with S. Anstein (according to your background).

Further useful information

Useful information

- German language course / "tandem" advisable
 - binding version of University documents: in German
 - to make the most of your life in Germany :)
 - check C@MPUS > Central Facilities > Language Center >
 German > Section I: German as a Foreign Language:
 Interdisciplinary Key Qualifications (FSQ) > German as a
 Foreign Language: Special offer for study programs
- some students got an "admission with requirements" (Auflagen)
 - see C@MPUS account; recommended to take the oral exam asap (self-studying) / programming course available in winter (no credits)
 - please register in Nov/May; you will get another email with more information
- please participate in evaluations
 - course evaluations, carried out during semester
 - module evaluations, carried out after end of semester/exams (by email)

- exam regulations (binding version: German; indicative translation link see handout)
 - important information is also available in English on the websites and on the handout (if in doubt, please ask!)
 - describe obligatory modules & define electives
 - determine number of possible repetitions and maximum length of the study, extensions and exceptions etc. (for academic accommodations due to special circumstances see also https://www.student.uni-stuttgart.de/en/organizing-studies/disability)
- exams
 - oral or written exam (during the semester or at the end of the semester)
 - ungraded exam: passed / failed
 - 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. exercises etc.

- registration for exams / modules
 - exact exam dates are announced in the lectures (can also take place in lecture-free period!)
 - register online in C@MPUS
 - each exam has to be registered during the registration period (as announced by the University: May/June & November/December) – otherwise participation is not possible (screenshot of registrations recommended)

- postponing / repeating exams
 - you can only repeat exams you have failed
 - you can withdraw from an exam until 7 days before the exam takes place (otherwise, a medical certificate is needed as soon as possible in order for the exam not to count as "failed")
 - failed exams can be repeated once; this has to be done within 2 semesters; re-registration necessary!
 - 2 failed modules can be dropped
 - a second repetition of a module exam (type "PL", see module handbook) is only allowed in 3 cases in total

15. Lehrveranstaltungen und -formen:	 723801 Lectures with exercises Methods in Computational Linguistics 	
16. Abschätzung Arbeitsaufwand:	lecture and exercises	
17. Prüfungsnummer/n und -name:	72381 Methods in Computational Linguistics (PL), , Gewichtung: V Vorleistung (USL-V), Methods in Computational Linguistics, Prüfungsleistung (PL), Schriftlich oder Mündlich, Gewichtung: 1	

- C@MPUS online portal
 - contains all currently offered courses (+ descriptions) and the modules (+ descriptions) they can be used for
 - personal timetable can be created (by registering for courses: non-binding)
 - (de-)registration for exams (binding)
 - document downloads: transcript, enrollment certificate
 - https://campus.uni-stuttgart.de



- ILIAS platform
 - is used to share information (slides, literature, ...) for courses (provided by the lecturers)
 - when you register the course in C@MPUS you will automatically be in the corresponding ILIAS course (if there is one for this course)
 - please also join the group "Studying @ IMS" for various useful information (including forum "Ask me anything"): path: Repository – Engineering – Maschinelle Sprachverarbeitung / Computational Linguistics – Arbeitsgruppen – Studying @ IMS
 - http://ilias3.uni-stuttgart.de



 more important information on the IMS website http://www.ims.uni-stuttgart.de

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    student FAQs
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- lecturers / staff contact data
- projects & publications
- events & news

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- more space in (computer) working areas in Pfaffenwaldring 5c and in Universitätsstraße 38
- honor code: not to plagiarize (worst case: plagiarism can lead to exmatriculation)
- please read the IMS code of conduct:
 www.msv-cl.de/code-of-conduct
- 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

Further institutions at the university to get information & help:

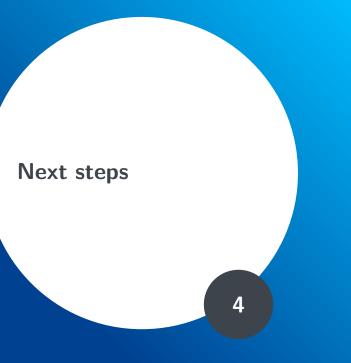
- International Service Point of faculty 5 for general questions (complementary to the services of the university's IZ/IO:)
 - www.f05.uni-stuttgart.de/studium/international-service-point
- Examination Office (*Prüfungsamt*)
 - Pfaffenwaldring 5c, 3rd floor
- Admissions Office (Studiensekretariat)
 - German students: Pfaffenwaldring 5c, 2nd floor
 - foreign students: Pfaffenwaldring 5c, 1st floor
- International Office (Internationales Zentrum), PWR 60
 - welcome service get your welcome package!
 - international mentoring, learning groups, psycho-social counselling, student associations, leisure activities, help with German forms etc.
 - www.uni-stuttgart.de/en/university/international/service
- Service point "uni & family", e.g. for maternity protection
 - www.uni-stuttgart.de/en/study/counseling/children

Further institutions at the university to get information & help:

- Student Counseling Center (Zentrale Studienberatung), PWR 5c
 - general and specific questions, e.g. disabilities, chronic illness
 - contact point for all unclear issues
 - courses on studying efficiently etc., see www.student.
 uni-stuttgart.de/en/counseling/zsb/learning-counseling/
- Student Services (Studierendenwerk)
 - housing (make sure you stay on waiting list!), childcare, legal advice, social advice, psychological support, finances, disabilities, ...
- "Ombudsperson": a neutral and confidential contact person for people in need of support in university conflicts:
 - www.student.uni-stuttgart.de/en/counseling/ombudsperson

Further institutions outside the university to get information & help:

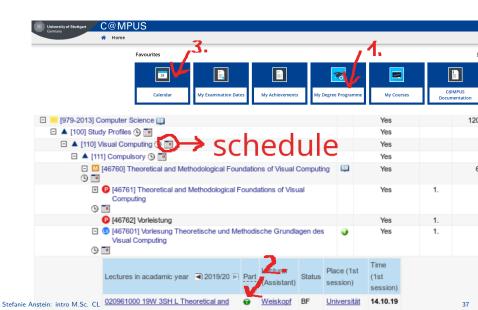
- Welcome Center Stuttgart (https://welcome.stuttgart.de/welcomecenter/en/)
 - help in many areas for new students: Welcome Club, Job Centre etc.
- Nightline Tübingen: an anonymous, confidential, unprejudiced and independent evening hotline (also available in English): https://nightline-tuebingen.de/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



For you to do ...

- take a look at
 - the current course offerings for CL in C@MPUS
 - in the curriculum tree view, click on the calendar icons to see all current courses in that catalog
 - choose around 30 CP / 20 SWS / 10 slots (check course combinations for modules)
 - hint for non-CL graduates: rather choose "lectures" and overview / introductory courses in the beginning and "seminars" on very specific topics only in the later course of studies (courses show specific prerequisites in C@MPUS; default: basic CL skills)
 - if you plan to focus on machine learning, work on your maths ...

Finding your courses via C@MPUS:



Some dates to save ...

- registration for additional German language courses: starting April 3 via C@MPUS
- online seminars by the IZ
 (https://www.student.uni-stuttgart.de/en/startingout/international/orientation-days/registration)
 - 'Studying in Stuttgart for Newbies': Tuesday, April 4, 2 p.m. CEST
 - 'Guidance on Formalities': every Friday at 10 a.m. CEST until April 28
- binding module exam registration period: May 16 June 6
- lecture breaks and public holidays (shops etc. closed!): see https://www.uni-stuttgart.de/en/study/application/ academic-calendar

Some dates to save ctd.



University of Stuttgart

Faculty 5: Computer Science, Electrical Engineering and Information Technology

For **newly enrolled students** of the English conducted Master's programs who will start their studies this summer semester

Semester Opening

May 4, 2023, 6:00-7:30 pm

✓ For the Master's programs:

Computational Linguistics * Computer Science * Electrical Engineering (EENG) * Information Technology (INFOTECH)



More information on the ISP website: https://www.f05.uni-stuttgart.de/en/faculty/international-students/ ISP International Service Point

Communication ...

We rely on you reading all your emails!

- st12345@stud.uni-stutt... address https://www.tik.uni-stuttgart.de/en/services-a-z/ e-mail-00002
- ILIAS email account (forwarding possible)
- all enrolled students will get an IMS user account
 - linux tutorial see https://www.ims.uni-stuttgart.de/documents/team/ schweitz/docs/linux.tutorial.pdf
 - including an email account: firstname.lastname@ims.uni-stuttgart.de
 - you'll get an info e-mail to st address (default forwarding to st address)
 - student GPU servers
 - strauss, kiwi, nandu
 - If you use a student GPU server, make sure to be mindful of other people wanting to use it too. (With the command nvidia-smi you can see which GPUs have free capacity.)

In case of any questions ... (1/3)

... please ask:

Stefanie Anstein

degree program manager, student advisor & contact person examination committee

- office: 01.006 in Pfaffenwaldring 5b
- stefanie.anstein@ims.uni-stuttgart.de
- +49 (0)711 68581387
- www.ims.uni-stuttgart.de/institut/team/Anstein-00002
- IMS FAQ page: www.ims.uni-stuttgart.de/en/teaching

If in doubt, please ask - the sooner the better ... :)

(... and please use cc instead of single e-mails whenever you contact several persons, thanks.)

By the way, we're always grateful for feedback about how we could improve our services (websites, advising etc.)!

In case of any questions ... (2/3)

... please ask:

- the coordinators of the International Service Point (ISP) of faculty 5 Meta & Laura:
- contact
 - internationalstudents@f05.uni-stuttgart.de
 - \bullet +49 (0)711 68567926 (Meta) / +49 (0)711 685 67277 (Laura)
 - in person during their office hours in Pfaffenwaldring 47, Room 4.270 or online (on appointment)

In case of any questions ... (3/3)

- ... please ask:
 - our student representatives (room 00.015; fscl@listserv.uni-stuttgart.de; msv-cl.de – facebook groups and discord server)

And now ...

- Follow us on our little real or virtual guided tour see the student representatives' room and take a look into the computer lab! https://youtu.be/W-jEeIyjrUE
- · Ask questions, if there are any ...

Welcome at the IMS!