



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 / departmentopens / research clusters

• Prof. Sebastian Padó, PD Dr. Klinger & many more:
computational semantics / (word) meaning,
multilinguality, text mining, social media analysis, computational social science, discourse studies & 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



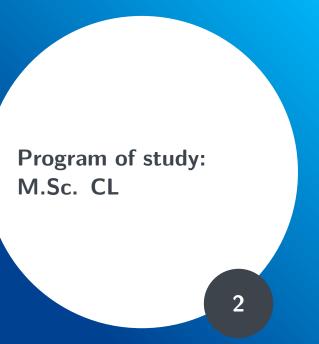
www.msv-cl.de

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, L.L.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, see C@MPUS
- 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 = 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

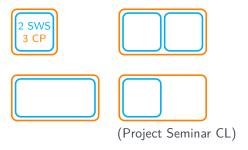


[976-2017] Computational Linguistics ☐ ▲ [300] Elective Modules ⑤ 10]Computational Linguistics 🕓 🥅 🗀 🛕 [3101] Core Computational Linguistics 🕓 🥅 ■ [35210] Topics in Computational Semantics ()
■ 🖾 🔼 [35280] Grammar Formalisms and Grammar Engineering 🕓 🥅 🗉 🕑 [35281] Grammar Formalisms and Grammar Engineering 🕓 🯢 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



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
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

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
 - Statistical Dependency Parsing
 - Grammar Formalisms and Grammar Engineering (not for Stuttgart MSV graduates)
 - Speech Recognition and Speech Synthesis (not this term)
 - Text Technology (not this term)
- "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
- 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
 - preparation for Master's thesis: read research papers / books, find a topic for your thesis, write proposal, present your thesis topic and pass 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)
 - info meeting: Nov 23, 1-2pm

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

Further institutions at the university to get information & help:

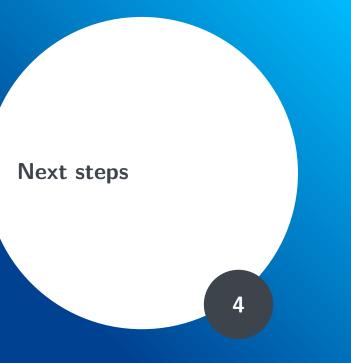
- International Service Point of faculty 5 for general questions (complementary to the services of the university's IZ/IO:)
 - www.f05.uni-stuttgart.de/studium/international-service-point
- Examination Office (*Prüfungsamt*)
 - Pfaffenwaldring 5c, 3rd floor
- Admissions Office (Studiensekretariat)
 - 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
- 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 outside the university to get information & help:

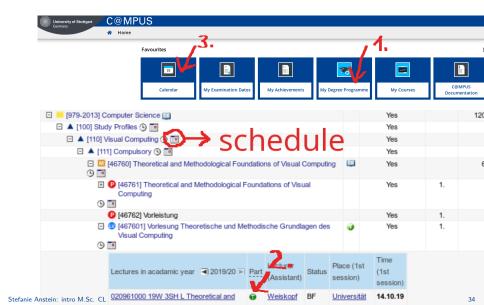
- Welcome Center Stuttgart (https://welcome.stuttgart.de/welcomecenter/en/)
 - help in many areas for new students: Welcome Club, Job Centre etc.
- Nightline Tübingen: an anonymous, confidential, unprejudiced and independent evening hotline (also available in English): https://nightline-tuebingen.de/
- 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 ...

- open question session / informal social meeting series:
 Wednesdays, 1-1:30pm, see IMS website news item
- registration for additional German language courses:
 October 10-18, 2022 via C@MPUS
- binding module exam registration period: Nov 16 Dec 8
- exam registration info meeting: Wednesday, Nov 23, 1-2pm
- public holiday (shops etc. closed!): Tue, Nov 1, 2022
- winter break 2022/23: Fri, December 23, 2022 to Saturday, January 07, 2023 (both inclusive)
 (see also
 www.uni-stuttgart.de/en/study/application/academic-calendar/)
- Erasmus exchange semester info meeting: TBA
- IMS Student Meeting with Prof. Padó: TBA

Communication ...

- 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
- info e-mail and default forwarding to st12345 address
- We rely on you reading all your emails!

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
- open office hour online every Wednesday lunch break, see IMS website
- 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.)

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
 - +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)
- your IMS student mentors (study buddy / open group mentoring: see IMS website)

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!