



WELCOME

to the program

Master of Science



Overview

1 Introduction – who we are ...

2 Details on the M.Sc. CL

- 3 Further useful information
- 4 Next steps

Introduction – who we are ...

IMS chairs / departments / research clusters

Prof. Sebastian Padó & his group:



computational semantics / (word) meaning, multilinguality, text mining, social media analysis, computational social science, discourse studies & much more

Prof. Jonas Kuhn, Prof. Schulte i. W. & more:



structural processing / syntax, text studies, semantic relations, computational social science, digital humanities, research infrastructure & much more

 Prof. Thang Vu, Dr. Schweitzer, Dr. Wokurek & more: digital phonetics, speech recognition/synthesis, spoken language understanding, dialogue

spoken language understanding, dialogue systems, deep learning & much more

Jun.-Prof. Carina Silberer & her group:



semantic models via machine learning, language and vision, grounding, multimodality, computational semantics & much more

More IMS research groups and associated teams

- Research Group SemRel 'Semantic Relatedness between word meanings': Prof. Dr. Sabine Schulte im Walde
- Research Group CiK 'Detection of meaning change, probabilistic modeling of word meaning': Dr. Dominik Schlechtweg
- Research Group DANIS 'Diversity-Aware NLP Intelligent Systems':
 Dr. Agnieszka Faleńska
- 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, see our webpage

Student representatives MSV / CL



www.msv-cl.de

Special Service of our Faculty

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
- 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

ISP International Service Point

Semester Opening Faculty 5 | May 15

Working in Germany – Online Session (Career Service) | May 21

C³ career-contact-connect – International Career
Day | June 4

International Days at Faculty 5 | Nov 25-Dec 10

-

Welcome Days at the university's International Office (IZ): April 2, 11:00 am-3:00 pm CEST



Our monthly mailing!

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





Details on the M.Sc. CL

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 1 (flexible!)

recommendation for non-CL graduates starting in summer term					
Semester	Obligatory modules	Elective* modules	Other	ECTS Credit Points (CP)	
1 (SuSe)		Elective courses worth ca. 30CP		30	
2 (WiSe)	Methods in CL** [8SWS*** 12CP]				
	Intro to DL for STP** [6SWS 9CP]			30	
	CL Research Module** [4SWS 9CP]				
3 (SuSe)	CL Team Lab° [4SWS 6CP]	Elective courses worth ca. 21CP	Key competences [2SWS 3CP]	30	
4 (WiSe)	Master's thesis [30CP]			30	
Color 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

Study plan suggestion 2 (flexible!)

	recommendation for CL graduates starting in summer term				
Semester	Obligatory modules	Elective* modules	Other	ECTS Credit Points (CP)	
1 (SuSe)	CL Team Lab° [4SWS 6CP]	Elective courses worth ca. 24CP		30	
2 (WiSe)	Methods in CL** [8SWS*** 12CP]				
	Intro to DL for STP** [6SWS 9CP]			30	
	CL Research Module** [4SWS 9CP]				
3 (SuSe)		Elective courses worth ca. 27CP	Key competences [2SWS 3CP]	30	
4 (SuSe)	Master's thesis [30CP]			30	
Color key:		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

Terminology: catalogs vs. modules vs. courses



Catalogs vs. modules vs. courses

[976-2017] Computational Linguistics 10]Computational Linguistics 🕓 🥅 🗀 🛕 [3101] Core Computational Linguistics 🕓 🥅 ■ [35210] Topics in Computational Semantics ()
■ 🗖 M [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

Catalogs vs. modules vs. courses

[976-2017] Computational Linguistics 10]Computational Linguistics 🕓 🥅 🗀 🛕 [3101] Core Computational Linguistics 🕓 🥅 ■ [35210] Topics in Computational Semantics ()
■ 5280] 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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Details about compulsory modules

- "Methods in Computational Linguistics"
 (12 credit points; winter semester; highest priority!)
 - option for MSV/CL graduates (only the ones who got my notification email): choose 2 advanced courses instead, see current list on
 - Repository > Engineering > Maschinelle
 Sprachverarbeitung / Computational Linguistics >
 Arbeitsgruppen > Studying @ IMS > [For NLP graduates only] List of advanced courses to replace MethodsCL with
- "Introduction to Deep Learning for Speech and Text Processing" (9 credit points; winter semester)
- "Computational Linguistics Team Laboratory" (6 credit points; summer semester)

Elective modules (51 credit points)

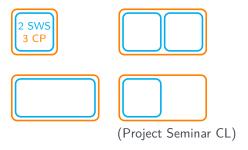
- choose 1 primary sub-catalog (at least 18 credit points) and 2 secondary catalogs (at least 6 credit points each) from the "Computational Linguistics" catalog (max. 12 credit points from Linguistics)
- choose primary/secondary catalogs from
 - Core Computational Linguistics
 - Applied Natural Language Processing
 - Speech Processing
- the remaining modules (21 credit points) can be choosen freely from all offered catalogs (largest choice and our recommendation: make use of the Computer Science offers!)

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: "Optional R&D Practical Project for CL" (6 CP for external internship)
- special module: "Optional Research Project CL" (12 CP for 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").

Important: course-module mapping



Combination modules: choose 2 courses from list



☐ M [73330] Topics in Natural Language Processing () III [73331] Topics in Natural Language Processing () 🗆 💵 [733301] Topics in Natural Language Processing, lecture 🕓 🥅 Lectures in acadamic year ■ 2022/23 ▶ 403160510 22W 2SH S Knowledge Base Population in Practice × 403529010 22W 2SH S Evidence-based Automatic Fact-Checking 403000040 23S 2SH S Argument Mining • 403513500 23S 2SH S Language Technology for Diversity & Inclusion • 403528002 23S 2SH LE Multimodal Semantics • 403848900 23S 2SH S Model projection ⊕ 406351600 23S 2SH S Multilinguality and linguistic typology in NLP \odot

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	•

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)
- Master's thesis (30 credit points)
 - needed to start with Master's thesis:
 - at least 60 credit points
 - passed requirements exam(s), if applicable
 - passed MethodsCL module

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 programming course asap (no credits, but needs to be passed before registering your thesis)
- 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 See https://www.student.uni-stuttgart.de/en/study-programs/ Computational-Linguistics-M.Sc./?page=examinations)
 - 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" and "LBP", 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 after online enrollment: 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

• ..

- 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) & Admissions Office (Studiensekretariat)
 - Pfaffenwaldring 5c; www.uni-stuttgart.de/en/study/contact
- International Office (Internationales Zentrum), PWR 60
 - welcome service
 - international (peer) 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 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
- 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/



Learning Counseling in the Student Counseling Center

Tips and advice for successful learning

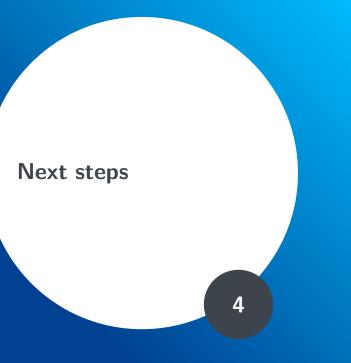
- Learning skills newsletter in the winter semester
- Counseling for individual students and learning groups
- Workshops:
 - Learning methods and exam preparation
 - Learning regularly, avoiding procrastination



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

Further institutions outside the university to get information & help:

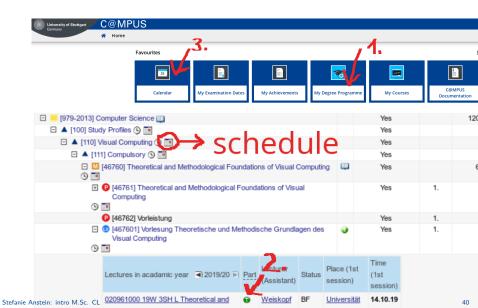
- Welcome Center Stuttgart (https://welcome.stuttgart.de/welcomecenter/en/)
 - help in many areas for new students: Welcome Club, Job Centre etc.
- Nightline Tübingen: an anonymous, confidential, unprejudiced and independent evening hotline (also available in English): https://nightline-tuebingen.de/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



Dates to save ...

- binding module exam registration period: May 13 June 3, 2025
- lecture breaks and public holidays (shops etc. closed!): see https://www.uni-stuttgart.de/en/study/application/ academic-calendar

Communication & more ...

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)

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".

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 group, discord server, messenger groups)

And now ...

- "Follow us" on our little 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!