



Universität Stuttgart



Institut für  
Maschinelle  
Sprachverarbeitung

Stefanie Anstein  
& student representatives

# WELCOME to the program Master of Science *Computational Linguistics*

April 2022

# Overview

1 Introduction – who we are ...

2 Program of study: M.Sc. CL

3 Further useful information

4 Next steps

**Introduction – who we  
are ...**

**1**

# IMS chairs / departments / research clusters

- **Prof. Sebastian Padó**, PD Dr. Klinger & many more:



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

- **Prof. Jonas Kuhn**, Prof. Reyle, Prof. Schulte i. W. & many more:



structural processing / syntax, text studies, semantic rela-  
tions, digital humanities, research infrastructure & much  
more

- **Prof. Thang Vu**, Dr. Schweitzer, Dr. Wokurek & many more:



digital phonetics, speech recognition/synthesis,  
spoken language understanding, dialogue sys-  
tems, deep learning & much more

- **Jun.-Prof. Carina Silberer** & her group:



semantic models via machine learning, language  
and vision, grounding & 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 AI-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



# International Service Point (ISP) of our Faculty

- Coordinator: **Meta Geisbüsch**
  - You can contact her with questions regarding the start of your studies and for any concerns & issues you might have during your studies via
    - E-Mail: [internationalstudents@f05.uni-stuttgart.de](mailto:internationalstudents@f05.uni-stuttgart.de)
    - Phone: +49 (0)711 68567926
    - in person during her office hours - Faculty 5, Pfaffenwaldring 47, Room 4.270 / or online (on appointment)
  - In addition, you'll find important & interesting information (e. g. on services such as German courses and social events) on the official ISP website:

[www.f05.uni-stuttgart.de/en/faculty/international-students](http://www.f05.uni-stuttgart.de/en/faculty/international-students)

**Meta is looking forward to getting to know you and helping you to get started!**

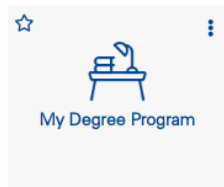
**Program of study:**  
**M.Sc. CL**



# 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, 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,SH = 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 SWS,SH = 10 x 1,5h per week
  - are given for complete modules

# Catalogs vs. modules vs. courses



☐ [976-2017] Computational Linguistics

☐ ▲ [100] Compulsory modules

☐ ▲ [300] Elective Modules

☐ ▲ [310] Computational Linguistics

☐ ▲ [3101] Core Computational Linguistics

☐ M [13270] Parsing

☐ M [35210] Topics in Computational Semantics

☐ M [35280] Grammar Formalisms and Grammar Engineering

☐ P [35281] Grammar Formalisms and Grammar Engineering

☐ P [35282] Vorleistung

☐ LV [352801] Seminar course Grammar Formalisms and Grammar Eng

# Catalogs vs. modules vs. courses

- [-] [976-2017] Computational Linguistics
- [+] ▲ [100] Compulsory modules
- [-] ▲ [300] Elective Modules
  - [+] ▲ [110] Computational Linguistics
    - [-] ▲ [3101] Core Computational Linguistics
      - [+] M [13270] Parsing
      - [+] M [35210] Topics in Computational Semantics
      - [-] M [35280] Grammar Formalisms and Grammar Engineering
        - [+] P [35281] Grammar Formalisms and Grammar Engineering
        - P [35282] Vorleistung
      - [-] LV [352801] Seminar course Grammar Formalisms and Grammar Eng

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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
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Lehrveranstaltungen im Studienjahr 2021/22

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403528000 21W 4SSt VU H: Grammar Formalisms and Grammar Eng

# 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
3 (WiSe)*	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

# Program of study ctd.

## Details about modules

- “Methods in Computational Linguistics”  
(12 credit points; first (winter) semester; highest priority!  
option for CL graduates: choose advanced courses, see C@MPUS)
- “Computational Linguistics Team Laboratory”  
(6 credit points; second semester)

# Program of study ctd.

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 chosen freely from all offered catalogs (largest choice: Computer Science)



# Program of study ctd.

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,SH → 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”).

# Important: course-module mapping



(Project Seminar CL)

# Program of study ctd.

Key competences (3 credit points)

- 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!

# Program of study ctd.

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**

**3**

# 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 (self-studying) asap / 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)

# Useful information ctd.

- 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.

# Useful information ctd.

- 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: **May 25, 1-2pm**



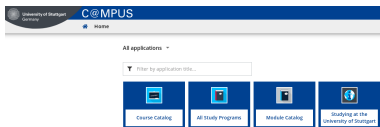
# Useful information ctd.

- postponing / repeating exams (PL)
  - 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: 1 • V Vorleistung (USL-V), • Methods in Computational Linguistics, Prüfungsleistung (PL), Schriftlich oder Mündlich, Gewichtung: 1

# Useful information ctd.

- 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)
  - <https://campus.uni-stuttgart.de>



# Useful information ctd.

- ILIAS platform
  - is used to share information (slides, literature, ...) for courses (provided by the lecturers)
  - as soon as you register for a 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”): Repository – Engineering – Maschinelle Sprachverarbeitung / Computational Linguistics – Arbeitsgruppen – Studying @ IMS
  - find support in studying online: Repository – “Digital Teaching and Learning Support, Consulting and Networking”
  - <http://ilias3.uni-stuttgart.de>



# Useful information ctd.

- 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](http://www.msv-cl.de/code-of-conduct)

# Useful information ctd.

Further institutions at the university to get information & help:

- International Service Point of faculty 5 for general questions
  - [www.f05.uni-stuttgart.de/studium/international-service-point](http://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](http://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](http://www.uni-stuttgart.de/en/study/counseling/children)

# Useful information ctd.

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/](http://www.student.uni-stuttgart.de/en/counseling/zsb/learning-counseling/)
- Student Services (*Studierendenwerk*)
  - housing (make sure you stay on waiting list!), childcare, legal & 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](http://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](http://www.mint.uni-stuttgart.de/angebote/offener-lernraum)

# Useful information ctd.

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.)

**Next steps**

4



# 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,SH / 10 90-min slots per week (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:

University of Stuttgart Germany C@MPUS Home

Favourites

3. 1.

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

[979-2013] Computer Science [100] Study Profiles [110] Visual Computing [111] Compulsory [46760] Theoretical and Methodological Foundations of Visual Computing [46761] Theoretical and Methodological Foundations of Visual Computing [46762] Vorleistung [467601] Vorlesung Theoretische und Methodische Grundlagen des Visual Computing

schedule

2.

Lectures in academic year	Part	Lecturer	Status	Place (1st session)	Time (1st session)
2019/20	Part	(Assistant)			
020961000 19W 3SH L Theoretical and		Weiskopf	BF	Universität	14.10.19

## Some dates to save ...

- summer lecture period: April 11 - July 22, 2022
- open question session / informal social meeting series: Wednesdays (during lecture period), 1-1:30pm, see IMS website news item
- binding module exam registration period: May 11 - June 2
- exam registration info meeting: Wednesday, May 25, 1-2pm
- public holidays (shops etc. closed!): April 15&18, May 26, June 6, June 16, 2022
- whitsun break: June 6-10, 2022  
(see also  
[www.uni-stuttgart.de/en/study/application/academic-calendar/](http://www.uni-stuttgart.de/en/study/application/academic-calendar/))

# 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 ... (1/2)

... 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](mailto:stefanie.anstein@ims.uni-stuttgart.de)
- +49 (0)711 68581387
- [www.ims.uni-stuttgart.de/institut/team/Anstein-00002](http://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](http://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 ... (2/2)

... please ask:

- our student representatives (room 00.015; [fscl@listserv.uni-stuttgart.de](mailto:fscl@listserv.uni-stuttgart.de); [msv-cl.de](mailto:msv-cl.de) – facebook groups and discord server)
- your fellow students at IMS (find a study buddy via the social networks of the student representatives?)
- in the open group mentoring Wednesdays: see news item on IMS website
- the colleagues at the International Service Point ISP F5 ([www.f05.uni-stuttgart.de/en/faculty/international-students](http://www.f05.uni-stuttgart.de/en/faculty/international-students))
- the colleagues at the International Office ([www.uni-stuttgart.de/en/university/international/service](http://www.uni-stuttgart.de/en/university/international/service))

## 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!