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 ...
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 relations, 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 & 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
    • 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

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 × 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

[13270] Parsing

[35210] Topics in Computational Semantics

[35280] Grammar Formalisms and Grammar Engineering

[35281] Grammar Formalisms and Grammar Engineering

[35282] Vorleistung

[352801] Seminar course Grammar Formalisms and Grammar Engineering
Catalogs vs. modules vs. courses

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Lehrveranstaltungen im Studienjahr 2021/22

401317000 21W 4SSt VU H: Syntax

403528000 21W 4SSt VU H: Grammar Formalisms and Grammar Engineering
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  - [100] Compulsory modules
  - [300] Elective Modules
    - [10] Computational Linguistics
    - [3101] Core Computational Linguistics
  - [13270] Parsing
- [35210] Topics in Computational Semantics
- [5280] Grammar Formalisms and Grammar Engineering
  - [35281] Grammar Formalisms and Grammar Engineering
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  - [35282] Vorleistung
- [LV] [352801] Seminar course Grammar Formalisms and Grammar Eng
### Study plan suggestion (flexible!)

**Program structure MSc CL PO 2017, Uni Stuttgart**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Obligatory modules</th>
<th>Elective modules</th>
<th>Other</th>
<th>ETCS Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (WiSe)*</td>
<td>Methods in CL ** [8SWS*** 12CP]</td>
<td>Elective courses worth ca. 18CP</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>2 (SoSe)*</td>
<td>CL Team Lab ° [4SWS 6CP]</td>
<td>Elective courses worth ca. 18CP</td>
<td>Key competences ** [2SWS 3CP]</td>
<td>27</td>
</tr>
<tr>
<td>3 (WiSe)*</td>
<td>CL Research Module ** [4SWS 9CP]</td>
<td>Elective courses worth ca. 24CP</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>4 (SoSe)*</td>
<td>Master's thesis [30CP]</td>
<td></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

**Colour key:**
- 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

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Stefanie Anstein: intro M.Sc. CL
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 choosen 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

2 SWS
3 CP

(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
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
    • 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

![C@MPUS online portal screenshot](image)
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
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
- 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
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/

- **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

- open learning space for maths and computer science questions:
  - 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
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:

1. Access the My Courses section.
2. Navigate to the schedule tab.
3. View the calendar or other relevant modules as needed.
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/
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
  - +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; 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!