WELCOME
to the program
Master of Science
Computational Linguistics
Stefanie Anstein
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 / department opens / 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. 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 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

- 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
    - +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:
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 = 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 = 10 × 1,5h per week
  - are given for complete modules
Catalogs vs. modules vs. courses

My Degree Program

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

Lehrveranstaltungen im Studienjahr 2021/22

401317000 21W 4SSt VU H: Syntax
403528000 21W 4SSt VU H: Grammar Formalisms and Grammar Engineering
Catalogs vs. modules vs. courses
Catalogs vs. modules vs. courses
Important: course-module mapping

2 SWS
3 CP

(Project Seminar CL)
**Study plan suggestion (flexible!)**

<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
Program of study ctd.

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)
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 → 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”).
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!
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)
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: **Nov 23, 1-2pm**
Useful information ctd.

- 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

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<table>
<thead>
<tr>
<th>15. Lehrveranstaltungen und -formen:</th>
<th>• 723801 Lectures with exercises Methods in Computational Linguistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>16. Abschätzung Arbeitsaufwand:</td>
<td>lecture and exercises</td>
</tr>
<tr>
<td>17. Prüfungsnummer/n und -name:</td>
<td>• 72381 Methods in Computational Linguistics (PL), Gewichtung: 1</td>
</tr>
<tr>
<td></td>
<td>• V Vorleistung (USL-V),</td>
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<tr>
<td></td>
<td>• Methods in Computational Linguistics, Prüfungsleistung (PL),</td>
</tr>
<tr>
<td></td>
<td>Schriftlich oder Mündlich, Gewichtung: 1</td>
</tr>
</tbody>
</table>
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)
  - document downloads: transcript, enrollment certificate
  - https://campus.uni-stuttgart.de
Useful information ctd.

- 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
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 (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
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 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](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)

- “Makerspace” on campus Vaihingen for conducting individual projects: [https://uni-stuttgart.de/maked-digital](https://uni-stuttgart.de/maked-digital)
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 / 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:

1. My Courses
2. Schedule
3. Favourites
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-stuttgarg.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!