WELCOME
to the program
Master of Science
„Computational Linguistics”

Stefanie Anstein & IMS student representatives

Institute for Natural Language Processing /
Institut für Maschinelles Sprachverarbeitung (IMS)
University of Stuttgart
Overview

Introduction – who we are . . .

Program of study: M.Sc. CL

Useful information

Next steps
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The IMS Chairs / Professors

- Theoretical Computational Linguistics
  (Head: Prof. Dr. Sebastian Padó)

- Fundamentals of Computational Linguistics
  (Head: Prof. Dr. Jonas Kuhn)

- Experimental Phonetics
  (Head: Prof. Dr. Grzegorz Dogil)

- Junior Prof. Computational Linguistics
  (Head: Junior Prof. Dr. Ngoc Thang Vu)
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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
  - www.uni-stuttgart.de/bologna/modulhandbuecher
- ECTS credit point (CP) = Leistungspunkt (LP)
  - measurement of working load (1 CP = 30h)
  - 2 SWS = 1,5h/week = 3 CP/semester
  - 120 CP needed for M.Sc. degree
  - are given for complete modules after last successful exam
### Study plan suggestion

<table>
<thead>
<tr>
<th>Sem.</th>
<th>Obligatory modules</th>
<th>Concentration / Elective modules</th>
<th>Other</th>
<th>ETCS Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 WiSe*</td>
<td>Methods in Computational Linguistics ** 8SWS***, 9+3CP</td>
<td>Concentration / Elective courses worth ca. 18CP</td>
<td></td>
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</tr>
<tr>
<td>2 SoSe*</td>
<td>CL Team Lab 4SWS, 6CP°</td>
<td>Concentration / Elective courses worth ca. 21CP</td>
<td>Key competences 2SWS, 3CP °°</td>
<td>30</td>
</tr>
<tr>
<td>3 WiSe*</td>
<td>Research Module part 1: Research Seminar ** 6SWS, 9CP</td>
<td>Concentration / Elective courses worth ca. 18CP</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>4 SoSe*</td>
<td>Research Module part 2: Research Colloquium 3CP</td>
<td>Master's thesis 30CP</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

*) for a start in the summer semester, it is recommended to interchange modules (e.g. “Methods in CL” & “CL Team Lab”)

**) offered only in winter semesters

***) 2 SWS = 1,5h/week

°) offered only in summer semesters

°°) is also possible in any other semester
Program of study ctd.

Details about modules

- “Methods in Computational Linguistics” (9+3 credit points; first semester)
- “Computational Linguistics Team Laboratory” (6 credit points, second semester)
- choose 2 out of 3 “Concentrations” (12 credit points each)
  - choose from
    - Computational Syntax and Semantics
    - Laboratory Phonology and Speech Processing
    - Statistical Natural Language Processing
  - each concentration consists of 2-4 courses that have to be passed
  - when you’ve attended all necessary courses → register → oral exam about all courses
Program of study ctd.

Elective modules (36 credit points)

- choose modules from the Master programs “Computational Linguistics”, “Computer Science”, “Electrical Engineering and Information Technology”, “Theoretical and Comparative Linguistics”, “Digital Humanities”, etc.

- if a module is not (yet) listed in our module handbook, ask S. Anstein if it can be imported

Please note: Each course can be used only once – to prove this, you have to upload a completed “module table” via ILIAS each semester.

Download: http://www.ims.uni-stuttgart.de/studium/interessierte/studiengaenge/cl-msc/pruefung.en.html
Program of study ctd.

Key competences (3 credit points)

- modules for general competences
  - 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
  - possible at the IMS: programming courses, Cognitive Science courses
Program of study ctd.

Later obligatory modules

- Research module
  - Research seminar (9 credit points)
    - preparation for Master’s thesis: read research papers / books, find a topic for your thesis
  - Research colloquium (3 credit points)
    - presentation of your (ongoing) Master’s thesis work
- 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!
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- German language course advisable
  - some important University documents exist in German only
  - to make the most of your life in Germany :)
- Some students got a “conditional admission” (*Auflagen*; see C@MPUS account; recommended to take the oral exam asap) – you will get another email with more information about registration.
Useful information ctd.

- Exam regulations (at the moment in German only)
  - Describe obligatory modules & define electives
  - Determine number of possible repetitions and maximum length of the study, . . .
  - Important information is also available in English on the IMS homepage and on the handout
    - [http://www.uni-stuttgart.de/studieren/service/admin/po/msc/index.html](http://www.uni-stuttgart.de/studieren/service/admin/po/msc/index.html)

- 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. homework, . . .
registration for exams / **modules**

- exact exam dates are announced in the lectures
- register online in the LSF
- for modules containing several courses, register in the semester in which you will finish **all** parts (e.g. concentration modules)
- 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)
Useful information ctd.

- postponing / repeating exams
  - 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 at the next possible date; re-registration necessary!
  - a second repetition of a module exam is only allowed in 3 cases in total
Useful information ctd.

- C@MPUS online portal
  - contains all currently offered courses and the modules they can be used for
  - personal timetable can be created (by registering for courses: non-binding)
  - registration for courses not necessary
  - https://campus.uni-stuttgart.de
Useful information ctd.

- **ILIAS platform**
  - is used to share information (slides, literature, ...) for courses (provided by the lecturers)
  - course registration (non-binding) recommended
  - [http://ilias3.uni-stuttgart.de](http://ilias3.uni-stuttgart.de)
Useful information ctd.

- LSF online portal
  - „Lehre, Studium, Forschung“ – teaching, study, research
  - (de-)registration for exams
  - http://lsf.uni-stuttgart.de
Useful information ctd.

- more important information on the IMS website
  
  http://www.ims.uni-stuttgart.de

  - course of study, exam regulations
  - lecturers, staff & contact data
  - projects & publications
  - events & news
  - ...
Useful information ctd.

Further institutions at the university to get information & help:

- Examination Office (Prüfungsamt)
  - Pfaffenwaldring 57 (Vaihingen)
- Admissions Office (Studiensekretariat)
  - German students: Keplerstraße 7 (Stuttgart centre)
  - foreign students: Geschw.-Scholl-Straße 24B (S centre)
- Centre for International Students (Internat. Zentrum)
  - welcome service – get your welcome package!
  - international mentoring, learning groups, student associations, leisure activities, etc.
  - Pfaffenwaldring 60 (Vaihingen)
Useful information ctd.

Further institutions at the university to get information & help:

- Oecumenic Centre (Ökumenisches Zentrum, ÖZ)
  - Allmandring 6 (Vaihingen)
- Student Services (Studierendenwerk)
  - housing (make sure you stay on waiting list!), childcare, legal advice, social advice, psychological support, finances, disabilities, . . .
  - Rosenbergstraße 18 (Stuttgart centre)
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For you to do . . .

- take a look at
  - the current semester schedule extracted from C@MPUS (see below and on the IMS homepage)
    - hint: rather choose „lectures“ and overview / introductory courses in the beginning
      and „seminars“ on very specific topics only in the later course of studies (especially for non-CL graduates)
IMS course list summer semester 2016

Courses vs. Modules

Courses offered:
- Natural Language Processing

Modules:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Type</th>
<th>Portion/Weekly</th>
<th>Lecture (assistant)</th>
<th>Lecture (assistant)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40000901</td>
<td>Application of Digital Signal Processing in Speech Processing</td>
<td></td>
<td>2</td>
<td>L</td>
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<tr>
<td>40000902</td>
<td>Sentiment Analysis</td>
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http://www.ims.uni-stuttgart.de

S. Anstein: M.Sc. CL
Schedule for the current semester

Lehrveranstaltungs-Kalender - C@MPUS - Universität Stuttgart

052400 Institut für Maschinelle Sprachverarbeitung

<table>
<thead>
<tr>
<th>Montag</th>
<th>Dienstag</th>
<th>Mittwoch</th>
<th>Donnerstag</th>
<th>Freitag</th>
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<tbody>
<tr>
<td>08:00</td>
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<td>09:00</td>
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<tr>
<td>11:00</td>
<td>Grammar Formalisms and Grammar Engineering</td>
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<td>Introduction to Cognitive Science</td>
<td>Statistical Machine Translation</td>
<td>Lexical Semantics</td>
<td>Topics in Pragmatics</td>
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<td>13:00</td>
<td>Speech Recognition</td>
<td>Voice Quality</td>
<td>Deep Learning for Speech and Language Processing</td>
<td>Laboratory Phonology</td>
</tr>
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<td>14:00</td>
<td>NLP for Writing Processes</td>
<td>Information Retrieval and Text Mining</td>
<td>Probabilistic models of language and 15:45-17:15</td>
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<td>15:45-17:15</td>
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<tr>
<td>16:00</td>
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Some dates to save . . .

- Welcome Reception for International MSc students:
  Wednesday, Nov 2, 5:30-7pm (V 47.02, Pfaffenwaldr. 47)

- IMS Student Meeting:
  Tuesday, Nov 8, 1:15-1:45pm (V 5.01/02)

- “Your start in Stuttgart”:
  Wednesday, Nov 9, 6pm (town hall Stuttgart)

- Workshop ‘Studying Efficiently’:
  Monday, Nov 21, 2-3:30pm (IZ room 0.26, Pfaff. 60)

- public holiday: November 1, 2016

- Christmas break:
  Friday, Dezember 23, 2016 to Friday, January 6, 2017
  (both included)
In case of any questions . . .

. . . please ask:

- **Stefanie Anstein**
  degree program manager, student advisor & contact person examination committee;
  office: 02.019 here in Pfaffenwaldring 5b
  stefanie.anstein@ims.uni-stuttgart.de
  
  - if in doubt, ask – the sooner the better :)
And now . . .

- Fill in the forms for your computer account at the IMS – check your IMS mail regularly or set a ’forward’!
- Follow us on our little guided tour – find the student representatives’ room and take a look into the computer lab!
- Have some typical Swabian food: *Apfelschorle* (apple juice with sparkling water) & *Brezeln* (pretzels)!
- Ask questions, if there are any . . .

**Welcome at the IMS!**