

FLST: Course Organization

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<http://www.coli.uni-saarland.de/courses/FLST/2011/>



FLST: Organization

FLST Course: Goals

- Common foundation for all MSc students
 - ensure some breadth despite specializations
 - shared content for all students
 - also serves a social function

- Challenging!
 - Expert lecturers for different topics
 - Less “coherence” than in traditional lectures
 - But common themes, ideas will emerge



FLST: Organization

This Week

FLST 2014-2015

Time	Mon 20.10.14	Tue 21.10.14	Wed 22.10.14	Thu 23.10.14	Fri 24.10.14
8.30-10.00	9.00-10.00 Technical advice for MSc study Thater	Map of the Field Uszkoreit	Ling Foundations (Syntax) Drenhaus	Ling Foundations (Syntax) Drenhaus	Ling Foundations (Phonetics/Tutorial) Trouvain
10.15-11.45	Map of the Field Uszkoreit	Cognitive Foundations Crocker	Cognitive Foundations Crocker	Cognitive Foundations (Tutorial) Crocker	Ling Foundations (Tutorial) Delogu/Drenhaus
11.45-14.15	Lunch break	Introduction to Winter Semester courses (12.00-13.00)	Lunch break	Lunch break	Lunch break
14.15-15.45	Ling Foundations (Intro) Delogu	Ling Foundations (Phonetics/Phonology) Trouvain	Probability theory Singh	Probability theory Singh	DFKI tour / presentation Neumann
15.14-16.45	Ling Foundations (Phonetics/Phonology) Trouvain	Ling Foundations (Morphology) Delogu	MMCI tour/project presentation Linn		

FLST: Schedule

Week	Monday	Wednesday	Friday	Instructor
Oct 20, 2013	Intro Week: Linguistics & Statistics			
Oct 27, 2013	Probability Thy	Probability Thy	Probability Thy	<i>Greenberg</i>
Nov 3, 2013	Cognitive Fs	Cognitive Fs	Technological Fs	<i>Crocker</i>
Nov 10, 2013	Cognitive Fs	Technological Fs	Technological Fs	<i>Busemann</i>
Nov 17, 2013	FSM+Parsing	FSM+Parsing	FSM+Parsing	<i>Uszkoreit</i>
Nov 24, 2013	FSM+Parsing	FSM+Parsing	FSM+Parsing	<i>Uszkoreit</i>
Dec 1, 2013	Stat. Methods	Stat. Methods	Stat. Methods	<i>Klakow</i>
Dec 8, 2013	Stat. Methods	Stat. Methods	Stat. Methods	<i>Klakow</i>
Dec 15, 2013	Logic	Logic	Logic	<i>Thater</i>
Dec 22, 2013	CHRISTMAS BREAK			
Dec 29, 2013				
Jan 5, 2014	Semantics	Semantics	Semantics	<i>Demberg</i>
Jan 12, 2014	Semantics	Semantics	Semantics	<i>Demberg</i>
Jan 19, 2014	Speech	Speech	Speech	<i>Moebius</i>
Jan 26, 2014	Speech	Speech	Speech	<i>Moebius</i>
Feb 6, 2014			Exam	

Lectures & Tutorials

- Material for each module is given by lecturers:
 - There is *no* text
 - Recommended reading, slides, and tutorials
 - Attending lectures & doing tutorials is critical!

- Lecture slides made available on the course web-page, sometimes there's a slight delay.

- Participate in the course, and keep an eye on the web-pages (materials, resources, scheduling ...)

Current topics

- Map of the Field (Uszkoreit)
 - The big picture and shared goals of language science and technology

- Linguistic Foundations (Delogu)
 - Goals of linguistic inquiry and theories
 - descriptive, prescriptive, explanatory
 - competence performance
 - Parts of Speech, Morphology
 - Kinds of grammatical theories, goals/assumptions
 - Ambiguity across levels of linguistic representation

Current topics

- Cognitive Foundations (Crocker/Delogu)
 - Evolution, Acquisition, Processing
 - Language in Mind/Brain, modularity & localization
 - Incrementality and ambiguity
 - Kinds of empirical evidence, and experiment design
 - Theories of processing & linking hypotheses

- Technological Foundations (Busemann)
 - Overview of application areas & task domains
 - Kind of tools used, system design, resources, eval

Current topics

- Finite State Methods & Parsing (Uszkoreit)
 - Intro to FSMs and algorithms
 - Application to lexicon and morphology
 - Strategies, CYK, and Earley parsing
 - PCFGs and Inside-Outside Algorithm, Evaluation

- Statistical Language Models (Klakov)
 - Language models, perplexity, trigrams, smoothing
 - Classifiers (NB), Semi-supervised learning, EM

Current topics

- Semantics (Demberg)
 - Meaning representations (logical, distributional)
 - Logic, Inference, Entailment, Deduction
 - Compositionality, Quantification

- Speech (Moebius)
 - Synthesis: di-phone, unit-selection, HMMs
 - Unknown words, prosody
 - The Mary TTS system

Exam structure

- EXAM: Friday, FEBRUARY 6, 2015
 - 8:00-10:00am (120 mins), Location TBA

- Part 1: 9-10 short answer questions from all the modules (5 mins work)
 - you must answer all = 50 mins
- Part 2: Each module provides a longer question (15 mins work)
 - you must do 4 of these = 60 mins
- Total time for exam 120 Minutes

Contact

- For questions regarding specific module content, contact the individual lecturer.

- Come to me, if you have general questions of problems regarding the course:
 - crocker@coli.uni-sb.de
 - If I'm unavailable: delogu@coli.uni-sb.de