

Miriam Butt
 G220, 5109
 Miriam.Butt@uni-konstanz.de
 Office hours: Tuesday 2-3 or by appointment

Machine Language Processing
 Ling 331
 Wintersemester 2014

Date	Topic	Notes/Exercises
23.10.	Overview and Intro	J&M Ch. 1
30.10.	POS Tagging	Penn Treebank Webseite, J&M Ch. 5
06.11.	Tokenization, Finite-State Automata Regular Expressions	J&M Ch. 2
13.11.	Stemming FST Morphology	J&M Ch. 3, Porter Stemmer Webseite XRCE Webseite
20.11.	Parsing	SCHNEIDER
27.11.	Parsing II	J&M Ch. 13 Exercise 1
04.12.	Deep Parsing (LFG, XLE) Unification	Butt&King, Cookbook J&M Ch. 16
11.12.	Chunk Parsing Language Complexity	Exercise 1 due
18.12.	Compositional Semantics	J&M Ch. 18
08.01.	Machine Translation (Kappus) Translation Memory	J&M Ch. 25, Arnold
15.01	Lexical Semantics WordNet, VerbNet, FrameNet, PropBank	J&M Ch. 19, 20 Exercise 2
22.01.	Computational Semantics & Generation	
29.01	Discourse & Anaphora	J&M Ch. 21 Exercise 2 due Exercise 3
05.02	Question-Answering	J&M Ch. 23 Exercise 3 due BUTT NOT THERE
12.02	Final Exam	

Requirements for Credit: 3 Exercises (40% of the grade), 1 Final Exam (60% of the grade). Both parts must individually receive a passing grade in order to receive credit for the course.

Some Material und Links can be found here:

ling.uni-konstanz.de/pages/home/butt/teaching

Background Literature:

- Arnold, Doug. 2008. *Machine Translation: an Introductory Guide*. London: Blackwell. <http://www.essex.ac.uk/linguistics/external/clmt/MTbook/>
- Butt, Miriam and Tracy Holloway King. 2003. *Grammar Writing, Testing, and Evaluation*. In Ali Farghaly (ed.) *A Handbook for Language Engineers*. CSLI Publications.
- Butt, Miriam Tracy Holloway King, Maria-Eugenia Nino, und Frederique Segond. 1999. *A Grammar Writer's Cookbook*. Stanford, California: CSLI Publications.
- Carstensen, Kai-Uwe, Christian Ebert, Cornelia Endriss, Susanne Jekat, Ralf Klabunde und Hagen Langer (eds.). 2001. *Computerlinguistik und Sprachtechnologie — Eine Einführung*. Heidelberg: Spektrum-Verlag.
- Jurafsky, D. and J. Martin. 2009. *Speech and Language Processing: An Introduction to Natural Language Processing, Computational Linguistics, and Speech Recognition*. 2nd Edition. Prentice Hall.
- Reiter, Ehud and Robert Dale. 2000. *Building Natural-Language Generation Systems*. Cambridge University Press.