

- February
 - Wed 9: Part of speech tagging [Brill, 1995], Xin’s work (Xin Lu)
 - Mon 14: POS tagging, continued [Brill, 1999] (Barbara)
 - Wed 16: HMM (ch 9 textbook)
 - Mon 21: HMM (ch 9 textbook)
 - Wed 23: no class
 - Mon 28: HMM (ch 9 textbook), Prob. CFG (Ch 11 textbook)
- March
 - Wed 2: Prob. CFG (Ch 11 textbook)
Project proposals due
 - Mon 7-8: **Joshi’s visit:** will present paper in class on March 7th, will give CS distinguished lecture on March 8th (tue), 11am.
 - Wed 9: Parsing: [Collins, 2003] (Fang Liu)
 - Mon 14: Parsing [Charniak, 2000] (Shuang Liu, 1/2), [Hwa, 2004] (Davide Fossati)
 - Wed 16: End [Hwa, 2004]; Word Sense Disambiguation: [Yarowsky, 1995] (Shuang Liu, 1/2)
 - Mon 21, Wed 23: spring break
 - Mon 28: Shuang’s work, [Resnik and Yarowsky, 2000] (Kaidi Zhao)
 - Wed 30: no class
- April
 - Mon 4: Word Sense Disamb / Semantics: [McCarthy and Carroll, 2003] (Su Kim), Semantic Inferencing: [Gildea and Jurafsky, 2002] (Rajen Subba)
 - Wed 6: Semantic Inferencing: End [Gildea and Jurafsky, 2002], [Merlo and Stevenson, 2001] (Lee Liang)
Project progress reports due
 - Mon 11: Reference Resolution: [Müller *et al.*, 2002] (1/2) (Wei Zhang), [Ng and Cardie, 2003] (1/2) (Wei Zhang)
 - Wed 13: Dialogue Processing and evaluation: [Singh *et al.*, 2002] (Cindy Kersey)
 - Mon 18: NLG, Summarization: [Bangalore and Rambow, 2000] (1/2) (Jack Xie), [Barzilay and Lee, 2004] (1/2) (Jack Xie)
 - Wed 20: Optional papers
 - Mon 25: Optional papers
 - Wed 27: Catch up

Additional, optional papers. Journal: [Mihalcea, 2002]. Conference: [Kingsbury and Kipper, 2003; Kipper *et al.*, 2004], [Walker *et al.*, 1997], [Langkilde and Knight, 2000]

References

- [Bangalore and Rambow, 2000] Srinivas Bangalore and Owen Rambow. Exploiting a probabilistic hierarchical model for generation. In *Proceedings of the 18th Conference on Computational Linguistics (COLING'2000)*, 2000.
- [Barzilay and Lee, 2004] Regina Barzilay and Lillian Lee. Catching the drift: Probabilistic content models, with applications to generation and summarization. In *Proc. of NAACL-HLT*, 2004.
- [Brill, 1995] Eric Brill. Transformation-based error-driven learning and natural language processing: A case study in part-of-speech tagging. *Computational Linguistics*, 21(4):543–566, 1995.
- [Brill, 1999] Eric Brill. Unsupervised learning of disambiguation rules for part of speech tagging. In *Natural Language Processing Using Very Large Corpora*, 1999.
- [Charniak, 2000] Eugene Charniak. A maximum-entropy-inspired parser. In *Proceedings of NAACL-2000*, 2000.
- [Collins, 2003] Michael Collins. Head-driven statistical methods for natural language parsing. *Computational Linguistics*, 29(4), 2003.
- [Gildea and Jurafsky, 2002] Daniel Gildea and Daniel Jurafsky. Automatic labeling of semantic roles. *Computational Linguistics*, 28(3), 2002.
- [Hwa, 2004] Rebecca Hwa. Sample selection for statistical parsing. *Computational Linguistics*, 30(3), 2004.
- [Kingsbury and Kipper, 2003] Paul Kingsbury and Karin Kipper. Deriving verb-meaning clusters from syntactic structure. In *HLT/NAACL Workshop on Text Meaning*, 2003.
- [Kipper *et al.*, 2004] Karin Kipper, Benjamin Snyder, and Martha Palmer. Extending a verb-lexicon using a semantically annotated corpus. In *Fourth International Conference on Language Resources and Evaluation (LREC 2004)*, 2004.
- [Langkilde and Knight, 2000] Irene Langkilde and Kevin Knight. Forest-based statistical sentence generation. In *NAACL00, Proceedings of the first Meeting of the North American Chapter of the Association for Computational Linguistics*, 2000.
- [McCarthy and Carroll, 2003] Diana McCarthy and John Carroll. Disambiguating nouns, verbs and adjectives using automatically acquired selectional preferences. *Computational Linguistics*, 29(4):639–654, 2003.
- [Merlo and Stevenson, 2001] Paola Merlo and Suzanne Stevenson. Automatic verb classification based on statistical distribution of argument structure. *Computational Linguistics*, 27(3):373–408, 2001.
- [Mihalcea, 2002] Rada Mihalcea. Word sense disambiguation using pattern learning and automatic feature selection. *Journal of Natural Language and Engineering*, December 2002.
- [Müller *et al.*, 2002] Christoph Müller, Stefan Rapp, and Michael Strube. Applying co-training to reference resolution. In *ACL02, Proceedings of the 40th Annual Meeting of the Association for Computational Linguistics*, pages 352–359, 2002.

- [Ng and Cardie, 2003] Vincent Ng and Claire Cardie. Bootstrapping coreference classifiers with multiple machine learning algorithms. In *Proceedings of the 2003 Conference on Empirical Methods in Natural Language Processing (EMNLP-2003)*, 2003.
- [Resnik and Yarowsky, 2000] Philip Resnik and David Yarowsky. Distinguishing systems and distinguishing senses: New evaluation methods for word sense disambiguation. *Natural Language Engineering*, 2000.
- [Singh *et al.*, 2002] Satinder Singh, Diane Litman, Michael Kearns, and Marilyn Walker. Optimizing dialogue management with reinforcement learning: Experiments with the njfun system. *Journal of Artificial Intelligence Research (JAIR)*, 15:105–133, 2002.
- [Walker *et al.*, 1997] Marilyn A. Walker, Diane J. Litman, Candace A. Kamm, and Alicia Abella. PARADISE: A Framework for Evaluating Spoken Dialogue Agents. In *ACL-EACL97, Proceedings of the 35th Annual Meeting of the Association for Computational Linguistics*, pages 271–280, 1997.
- [Yarowsky, 1995] David Yarowsky. Unsupervised word sense disambiguation rivaling supervised methods. In *Meeting of the Association for Computational Linguistics*, pages 189–196, 1995.