Natural Language Processing Course Tentative Schedule of Class Sessions and Assignments Fall 2017

Note that the weekly lecture and lab exercises will be given in class and require attendance.

Week Date Topics and Assignment Dates,

- 1. 8/29, 31 Course Overview and Introduction to NLP and the NLTK Readings: From the NLTK book, read Chapter 0 and in Chapter 1, read sections 1.1 and 1.2 under the headings of Lists, Variables and Strings.
- 2. 9/5, 7 Corpus Linguistics and N-gram Models
 Readings: From the NLTK book (1st edition), read section 1.3 under the heading
 Frequency Distributions and skim through section 1.4 Back to Python of Chapter 1.
 Church and Hanks paper

Assign Homework 1: Corpus Statistics and Mutual Information

- 3. 9/12, 14 Regular Expressions, Morphology
- 4. 9/19, 21 Part-of-speech Tagging
 Readings: J&M Morphology examples (available in Blackboard)
 Homework 1 Due at midnight 9/21.
- 5. 9/26, 28 Context Free Grammars **Assign Homework 2**
- 6. 10/03, 05 Parsing, Statistical Parsing, Dependency Parsing
 Optional reading: Joakim Nivre, Deterministic Dependency Parsing of English Text.
- 7. 10/10, 12 Semantic Representations, Lexical Semantics, WordNet **Homework 2 Due at midnight 10/12.**
- 8. 10/17, 19 Semantic Role Labeling, Deep Learning **Assign Homework 3.**
- 9. 10/24, 26 Information Extraction, Summarization, and Machine Translation Readings/Videos: Machine Learning for NLP, Videos from Andrew Ng
- 10. 10/31, 11/02 Information Retrieval, Question Answering **Homework 3 due at midnight 11/02.**

Remaining schedule is approximate, pending decisions on whether to participate in poster day.

11. 11/07, 09 Sentiment Analysis **Assign Final Projects.**

Choose NLP application topics.

- 12. 11/14, 16 Discourse Linguistics, Anaphora & Coherence11/21, 23 No class Thanksgiving Break
- 13. 11/28, 30 Pragmatics, Dialogue Theory, Topic Modeling **Poster Day is Friday, Dec. 1??**
- 14. 12/05, 07 NLP Application Reports due ??
- 15. Final Projects due at midnight ??(No Final Exam)