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Spring 1-2016

### LING 570.01: Seminar in Linguistics

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# LING 570

## Graduate Seminar: Linguistic Tools for Audio Data Processing and Analysis

University of Montana

Spring 2016

### Syllabus

Instructor: Mizuki Miyashita

Location: SS262 (M 11:10-12:00/W 11:10-12:30) & SS252 (M 12:00-12:30)

Office Hours: M (1:30-2:30)

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Phone: (406) 243-5164

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### OBJECTIVES

Linguistics is a language science and its data come from our speech production. As you know, linguistics itself is a diverse field and types of data used for research vary and are processed differently depending on the subfield and method of the research. Some rely on their (researchers') native speaker intuitions often based on their own grammaticality judgements (e.g., syntactic theory). If the language studied is the researchers' native language, then the grammaticality judgements may be conducted via elicitation (e.g., research in indigenous languages). Other linguists might obtain data from controlled experiments or interviews even though the language under investigation is the researcher's native tongue (e.g., psycholinguistics, language development). Furthermore, there are linguists that strive to make an analysis using connected speech (narratives, conversations, etc.) as data source. This seminar introduces a few ways to process connected speeches. Though data based on connected speech tend to be used for sociolinguistic research, the same type of data source can be used for various linguistic research areas. (e.g., phonetics, phonology, morphology, syntax, semantics, theoretical linguistics, etc.) In this semester, we will learn how to create transcriptions using sample recordings in three different levels (free, DT, and ELAN) through 7 small projects. We will also attempt to write a grant proposal in which this type of data source may be used. To accomplish the second part, the seminar involves a series of workshops which may help develop skills in reviewing self-performance, writing a research proposal, and planning a budget.

### COURSE STRUCTURE

Till April 13th, we will meet in SS262 on Mondays from 11:10 to 12:00 and Wednesday from 11:10 to 12:30. In the last 30 minutes (Monday), we will meet in SS252 for professional development workshops which will also help develop part of your course requirement (mockup grant proposal). From April 18th, we will meet SS252 for presentations.

### COURSE REQUIREMENTS

- A. Projects**
- |   |  |
|---|--|
| Project 1. Free Transcription using Audacity. | Project 5. Discourse Transcription     |
| Project 2. Introduction to ELAN               | Project 6. Transcribe a scene from GWH |
| Project 3. Vowel plotting                     | Project 7. Design a pilot study.       |
| Project 4. Vowel Chart in R                   |  |

### B. Workshops on Academic/Career Development

Using 30 minutes of Mondays, we will conduct several workshops on academic/career development with the theme of *mockup NSF grant development*. This includes developing a CV, biographical sketch, and budget. This component of the seminar requires you to turn in the following materials:

1. CV
2. biographical sketch
3. budget and budget justification drafts, and
4. a packet of a mockup NSF grant proposal

### C. Oral Presentation

Present your grant proposal in-class.

### Computers

Use the computers in the labs on campus (SS262/SS258/NAC014) or your own computer. We will use the following software: Audacity, Praat, ELAN, R, Microsoft Word, Microsoft Excel.

			30 min workshop [M]	Due Fridays
1	Jan. 25-27	<b>Introduction</b> [M] Introduction of the seminar [W] Orientation Computer set up Transcripts		
2	Feb. 1-3	<b>Project 1: Free/Broad Transcription</b> [M] Transcription Introduction [W] (cont.)	Workshop 1: Career Development	P1
3	Feb. 8-10	<b>Project 2: Introductory ELAN</b> [M] ELAN introduction [W] (cont.)	Workshop 2: Conference	P2
4	Feb. 15-17	<b>Project 3: Vowel plotting</b> [M] Phonetics review [W] Praat with TextGrid (cont.)	Workshop 3: Finding grant opportunities	
5	Feb. 22-24	<b>Project 3: (cont.)</b> [M] (cont.) [W] (cont.)	Workshop 4: Finding NSF requirements	P3
6	Feb. 29- Mar. 2	<b>Project 4: Vowel Chart in Excel and R</b> [M] Excel [W] R	Workshop 5: CV Workshop	P4
7	Mar. 7-9	<b>Project 5: DT (Du Bois et al. 1993)</b> [M] Turnip Woman [W]	Workshop 6: Develop your own CV	P5
8	Mar. 14-16	<b>Project 6: GWH transcribing</b> [M] [W] Library Search Workshop [Student Learning Ctr]	Workshop 7: Think about “like”	CV
9	Mar. 21-23	<b>Project 6: GWH transcribing (cont.)</b> [M] [W]	Workshop 8: Biographical sketch (NSF)	P6 & bio- sketch
10	Mar. 28-30	<b>Project 7: Pilot study design</b> [M] Discuss in groups [W] Jodi Todd on Budget planning	Workshop 9: Think about budget	
11	Apr. 4-6	<b>SPRING BREAK</b>		
12	Apr. 11-13	NSF budget and budget justification NSF proposal budget	Workshop 10: NSF Review criteria	P7 Budget
13	Apr. 18-20	SS252 [M] Presentation (2 students) [W] Presentation (2 students)		
14	Apr. 25-27	SS252 [M] Presentation (2 students) [W] Presentation (2 students)		
15	May 2-4	SS252 [M] Presentation (2 students) [W] Summary		
	May 13 (F)	Turn in Mockup Grant Proposal Packet		Proposal