

Spring 2017

Syllabus: 10520LING506300

Seminar on Experimental Phonetics

- Class:** Thur 2:10-5:00 p.m., CHSS Building, A309
- Instructor:** Yueh-chin Chang
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CHSS Building, A429, x4-2704
- Office hours:** by appt.
- Prerequisites:** an intro to phonetics/phonology class, or permission of instructor
- Required text:** Pickett, James M. 1999. *The Acoustics of Speech Communication: Fundamentals, Speech Perception Theory, and Technology*.
Needham Heights: Allyn & Bacon.

Course description:

This course is an introduction to fundamental ideas/aspects of acoustic phonetics and speech perception theory, with an emphasis on the essential skills of doing acoustic analysis and phonetic/perception experiments.

Course requirements:

Assigned readings
Class participation
In-class presentation (10%)
Homework assignments (40%)
(There will be 3 assignments: i) vowel and consonant, ii) tone, and iii) perception)
Term project (50%)

Schedule of topics (subject to revision)

Readings and assignments (marked with *) are due the day they are listed.

WEEK	DATE	TOPIC	READING
Week 1	2017/2/16	Orientation	

Week 2	2017/2/22	General intro	Chaps 1&2
Week 3	2017/2/28	Vowel shaping and vowel formants	Chap 3
Week 4	2017/3/6	Sound source and the spectra	Chap 4 & Johnson (2003) Chap 6
Week 5	2017/3/12	Consonant features	Chap 6
Week 6	2017/3/18	Consonants: Nasal, stop, and fricative	Chap 7
Week 7	2017/3/24*	Consonants: the voiced-unvoiced contrast	Chaps 8
Week 8	2017/3/30	Consonants: feature of place of articulation	Chaps 9
Week 9	2017/4/5*	Tone, intonation	Chap 5 & Xu (1997)
Week 10	2017/4/11	Tone/the flow of speech	Chap 10
Week 11	2017/4/17	Perception & production of tone	Gandour (1978), Gandour (1983), Ohala (1978)
Week 12	2017/4/23	Perception of vowel	Chap 11
Week 13	2017/4/29*	Perception of consonants	Chap 12
Week 14	2017/5/5	Phonological development	Chap 13
Week 15	2017/5/11	Classical theory of speech perception	Chap 14
Week 16	2017/5/17	Interactive and integrative theories	Chap 15
Week 17	2017/5/23	Wrap up and student presentations	
Week 18	2017/5/29	Student presentations	

Readings:

- Gandour, J. 1978. The perception of tone. In V. Fromkin (ed.) 1978. *Tone: A Linguistic Survey*. New York: Academic Press, pp. 41-76.
- Gandour, J. 1983. Tone perception in Far Eastern languages. *Journal of Phonetics* 11: 149-175.
- Johnson, K. 2003. *Acoustic and Auditory Phonetics*. Malden & Oxford: Blackwell.
- Ohala, J. 1978. Production of tone. In V. Fromkin (ed.) 1978. *Tone: A Linguistic Survey*. New York: Academic Press, pp. 5-41.
- Xu, Y. (1997). Contextual tonal variations in Mandarin. *Journal of Phonetics* 25: 61-83.
- Xu, Y. and Q. E. Wang (2001). Pitch targets and their realization: Evidence from Mandarin Chinese. *Speech Communication* 33: 319-337.