

**Linguistics 696b, Section 2**  
**Seminar in Phonetics:**  
**Exemplar models of speech perception and production**  
Spring 2004

Professor: Natasha Warner

**Class meets:**

1-3:30 Wednesday

115C Social Sciences (SBSRI conference room)

**Office hours:** to be announced, Douglass 320

Phone: 626-5591

Email: [nwarner@u.arizona.edu](mailto:nwarner@u.arizona.edu) (best way to reach me outside office hours)

**Books/materials:**

A selection of articles on exemplar models and speech, extending a little more broadly into language.

Here are some I know we'll read:

Johnson, Keith and Beckman, Mary. 1997 Production and perception of individual speaking styles. Working Papers in Linguistics v. 50, pp. 115-125.

Pierrehumbert, Janet. 2002. Word-specific phonetics. In LabPhon7, pp. 101-139.

A paper on exemplars and syntax

A paper critical of exemplar models

Smits, Roel, Sereno, Joan, and Jongman, Allard. Categorization of sounds.

Articles on exemplar models selected by you (see below).

**General organization of the course:**

Mostly, we will read articles, discuss them, and talk about how various language situations would be handled by exemplar vs. other models, whether these situations come up in the articles or not. We will also try to come up with a variety of experiments that would test an exemplar model against other models. We probably won't be actually doing these experiments, but we'll just be trying to think of some as a group.

You will be responsible for presenting two articles to the class during the semester. You will also do a term paper project, which will involve collecting original data. The topic does not need to be explicitly on exemplar models, but you should at least think about how exemplar models might apply to your topic and data, even if that's a side point. You will also present your work to the class near the end of the semester. Furthermore, there will be one small homework assignment, immediately: to come back next week with an article on exemplars that you would like to add to the class reading list. You will also be required to turn in some sort of short progress report on your term paper work at some point, to make sure everybody is making good progress on their work. We will also

discuss everyone's term paper topics, progress, etc., at various points in class, so you should always be prepared to talk about what you're doing for your project.

**Prerequisites:**

Ling. 515 or my permission.

**Requirements/grading:**

Homework assignment: 10%  
 Progress report: 10%  
 Article presentations (2): 10% each  
 Term paper presentation: 10%  
 Term paper: 40%  
 Participation: 10%

**Very tentative schedule: (final filled in reading list appears below)**

Date	Topic	Readings/requirements
Jan. 14	Intro., review of Johnson article from 515	
Jan. 21	More intro., look at what articles have come in and make schedule, categorization	<b>HW due:</b> bring in an article
Jan. 28	dialects	Johnson and Beckman dialects article
Feb. 4		an L2 article?
Feb. 11		Smits et al. categorization article
Feb. 18		<b>choose term paper topic by here</b>
Feb. 25		
Mar. 3		Pierrehumbert article
Mar. 10		
Mar. 24		
Mar. 31		<b>written progress report due</b>
Apr. 7	criticism of exemplars	critical paper
Apr. 14		
Apr. 21	syntax and exemplars, general wrap-up	syntax and exemplars paper
Apr. 28		<b>term paper presentations</b>
May 5	no class?	<b>term paper due</b> (this may be negotiable as a class, but not individually without extreme disasters as justification)

**Final reading list as chosen by the class:**

**Feb. 4**

Nosofsky '02 (presented by Erin)--psychology  
Smith & Minda (presented by Ben)

**Feb. 11**

Smits et al.

Stroms et al. (Erin has PDF)--tests of prototype vs. exemplar models  
"Prototype and Exemplar-Based Information in Natural Language  
categories" Stroms. *J. of Memory and Language*, 42, 2000

**Feb. 18**

Ellis--L1

"Frequency Effects in Language Processing" Nick Ellis. *SSLA*, 24, 2002

Bybee--L2 (Erin has PDF's)

"Phonological Evidence for Exemplar Storage of Multiword sequences" Joan Bybee.  
*SSLA* 24, 2002

**Feb. 25**

Pierrehumbert--L1

Pierrehumbert, Janet B. (2003). Phonetic Diversity, Statistical Learning,  
and Acquisition of Phonology. *Language and Speech*, 46, 2-3, 115-154.

Houston (?)--babies

**Mar. 3**

Kingston—L2 perception

Kingston, John. (2003). Learning Foreign Vowels, *Language and Speech*, 46,  
2-3, 295-349.

Johnson & Beckman--dialects

**Mar. 10**

Bybee—historical

Bybee, Joan. (2002). Word frequency and context of use in the lexical  
diffusion of phonetically conditioned sound change. *Language Variation and  
Change*, 14, 261-290.

Kirchner--phonologization

**Mar. 24**

Goldinger day! choose articles later

**Mar. 31**

Frieda et al.

Frieda, Walley, Flege, and Sloane (2000)--Journal of Speech, Language, and Hearing Research, vol. 43. "Adults' Perception and Production of the English Vowel /i/"

Sussman & Gekas—prototypes

Sussman, Joan E, and Brian Gekas. (1997). Phonetic category structure of [I]: Extent, best exemplars, and organization. Journal of Speech, Language, and Hearing Research, 40, 1406-1424.

**Apr. 7**

Myers--OT

McLennan & Luce

**Apr. 14**

Hawkins (possibly replace if we find a better article)—neurological

Roles and representations of systematic fine phonetic detail in speech understanding. Journal of Phonetics, 31, 373-405.

syntax article—citation forthcoming

**Apr. 21**

TBA