

## Phonetics in Phonology

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Prerequisite: basic phonology (and/or phonetics) course

Topics: Optimality Theory, phonetics (perception and articulation), combination of the two

### Description & Goals

In this course we discuss how phonetics (and functional factors) influence onto phonology. Traditionally, it has been assumed that it is extremely limited in the synchronic grammar or at best indirect through historical sound changes.

With the advent of Optimality Theory (OT), a completely different approach to the role of phonetics in phonology has been made by Donca Steriade and her colleagues. Adopting OT, they analyze diverse phonological processes by incorporating phonetic principles governing speech perception and articulation into the elements of grammar, i.e., constraints. Their analyses can be seen in a recently published book *Phonetically Based Phonology* edited by Hayes, Steriade and Kirchner (2004). In this course we will mainly discuss contributions to that volume and some other important papers about the phonetics-phonology relation, for the purpose of exploring the way how phonetics affects phonology while comparing the two opposing views to the role of phonetics in phonology.

Specifically, we will begin with basics of Optimality Theory in the first couple of weeks (depending on the background knowledge of registered students). This introduction of Optimality Theory will be followed by the main part of the course, discussion of papers advocating the idea of Phonetically-based Phonology approach. We will then consider arguments for the view that the influence of phonetics onto phonology is at best indirect. Finally, we will consider the comparison of the two opposing views and related issues.

For this course, you don't have to be a phonetics expert. The book *Phonetically Based Phonology* is intended for the reader who is not familiar with advanced phonetics. If you are a beginner in phonetics, you may read each paper in the reading list after in-class discussion of it at least in the first half of the course. I expect that as we approach the end of the course, in addition to the main points of the class, you will learn more about Optimality Theory and phonetics in general.

## Tentative Class Schedule

<i>Week</i>	<i>Topics</i>
1. March 4	Introduction; Basics of Optimality Theory (1)
2. March 11	Basics of Optimality Theory (2)
3. March 18	Hayes (1999)
4. March 25	Wright (2004 PBP)
5. April 1	Jun (2004 PBP),
6. Apr. 8	Steriade (1999, 2001)
7. Apr. 15	Kaun (2004 PBP)
8. Apr. 22	Kirchner (2004 PBP)
9. Apr. 29	Zhang, Gordon (2004 PBP)
10. May 4	Flemming (2004 PBP)
11. May 13	Blevin & Garrett, Frisch (2004 PBP)
12. May 20	Hale & Reiss (2001)
13. May 27	Steriade (2000, P-map), Jun (2002)
14. June 3	Review and summary
15. June 10	Presentation

## Supplementary readings

Optimality Theory	Kager, René (1999) <i>Optimality Theory</i> . Cambridge University Press.
Phonetics	Ladefoged, Peter (2001) <i>A course in Phonetics</i> . Harcourt. Johnson, Keith (2003) <i>Acoustic and Auditory Phonetics</i> . 2 <sup>nd</sup> ed. Blackwell.
Additional required readings	A single copy of each paper discussed in class will be put in the reserve box. You must xerox and return it quickly for other students.

## Requirements

- Readings and class participation
- Lead discussion of one paper in the reading list (sometime in the 2<sup>nd</sup> half)
- A final term paper and its presentation (details of the schedule: TBA)

## Bibliography

- ✓ Papers in Hayes, Kirchner and Steriade eds. (2004) *Phonetically Based Phonology*. Cambridge University Press. (For an abstract and a draft version (in pdf format) of each chapter of this volume, visit <http://www.linguistics.ucla.edu/people/hayes/PBP/index.htm>)
- Blevins, Juliette (2004) *Evolutionary Phonology: The emergence of sound patterns*. Cambridge University Press.
- Hale, M. and C. Reiss (2000) Substance Abuse and Dysfunctionalism: Current Trends in Phonology. *LI* 31.1. (also, ROA-317)

- Hayes, Bruce (1999) Phonetically-driven phonology: the role of Optimality Theory and inductive grounding. In Michael Darnell, Edith Moravcsik, Michael Noonan, Frederick Newmeyer, and Kathleen Wheatly (eds.), *Functionalism and formalism in linguistics, volume I: general papers*. Amsterdam: John Benjamins, 243-85.
- Jun, Jongho (2002) Inferred input. MS, Yeungnam University.
- Steriade, Donca (1999) Phonetics in phonology: the case of laryngeal neutralization. In Matthew Gordon (ed.), *Papers in Phonology 3*. (UCLA Working Papers in Linguistics 2) Los Angeles: Department of Linguistics, UCLA, 25-146).
- (2000) The phonology of perceptibility effects: The P-map and its consequences for constraint organization. Ms., UCLA.
- (2001) Directional asymmetries in place assimilation: A perceptual account. In Elizabeth Hume and Keith Johnson (eds.), *the role of speech perception in phonology*. New York: Academic Press, 219-50.