Syllabus: Phonological Theory III

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<tr>
<th>Instructor:</th>
<th>Bruce Hayes</th>
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<tr>
<td>Office Hours:</td>
<td>by email appointment</td>
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<td>Classroom:</td>
<td>Online, look on CCLE (login) to get the current Zoom code</td>
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**Prerequisite:** Linguistics 201A or consent of the instructor. I will give consent if you’ve had at least Linguistics 200A or equivalent.

**Requirements:**

- Doing the readings
- Class participation — you may use the Raise Hand button
- **Assignments:** about 5 homeworks, some of them small. The bigger assignments will be due on Tuesdays. 35% of grade.
  > Interested in revising/extending earlier work? Possible, but please consult with first.
- Preliminary term paper **appointment** with me, graded credit/no credit, in which we talk about your term paper project. Due by end of 5th week, 5/1, 5% of your grade. (This formal appointment is obligatory, but of course other informal appointments are possible.)
- Give a **talk with audience of one** (me), on the topic of your term paper. Please bring a handout. This should take place before the middle of Finals Week, 6/10, but ideally earlier. 5% of your grade.

Collaborating on homeworks is encouraged, but you have to write up your own version.

**Description:** This is the third course of the UCLA graduate sequence in phonological theory. As such it is the most open-ended, directed to helping you find research topics as well as commanding the research literature. See List of Topics at end of syllabus for what I hope to cover. Lobbying re. topics is possible.

**Talking to me:** You are encouraged to talk with me by Zoom with your questions and discussion. These can include questions on the problem sets if you’ve already made a serious attack on them first. For short questions, I can (often) answer emails (though on weekends I do not attend to my email regularly). For longer discussions, please make a Zoom appointment. Since it is impossible to drop in on me I am not doing office hours, but readily make appointments.

**Readings and other materials:** I will place them on the CCLE site, https://ccle.ucla.edu/course/view/20S-LING219-1?section=1.

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1 If there is lots of support for a mini-conference I will do one. Let me know.
Rules and regulations

- Please communicate with me if you need to hand anything in late.
- Kindly use 12 point font for assignments and papers.
- Format:
  - If you send me a copy saved in the old Word .doc format I can comment easily in digital form. This is not required.
  - I hope to upgrade my old home computer during the quarter and then normal .docx will work.
  - If you are not a Word person please send me a pdf instead.

Tentative schedule of topics

Not set in stone. Please comment if you like when we go over it at the first meeting.

1. Frameworks for constraint-based phonology
   - Arguments that the framework should be stochastic: variation both in outputs and lexicon
   - Basics of frameworks: Stochastic OT, Noisy Harmonic Grammar, maxent
     - Intuitive characterization
     - Ask me if you want more on the math of maxent
     - The excess power counterargument
   - Phonotactics
     - Exercise on consonant clusters
   - The theory of knobs: Coetzee and Kawahara’s work
     - Three knobs: style, rate, frequency
   - A possible case study (if data available): syntax-phonology interfacing in maxent; why letting winners be harmonically bounded might be the key.

2. Acquisition
   - Basics: every tot has two phonologies (Lise Menn, Neilson Smith)
   - Learnability properties (bad and good) of various frameworks
   - Hidden structure and why it makes things hard
     - Expectation-Maximization — learning UR’s
   - The struggle to learn both words and general patterns: Zuraw, Pater/Moore-Cantwell, Zymet

3. The role of paradigm uniformity in phonology
   - Classical work by Paul Kiparsky on language change
   - Modern interpretations in Output-Output Correspondence and Stratal OT
   - Steriade’s work on phonetic paradigm uniformity
   - Experimental work: White, Jo, Do
4. **Phonetics in phonology: the case of syllable weight and phonetics**
   - Theme: role of phonetics in phonology
   - Quick survey of what syllable weight is for
   - We will particular cover the work of Kevin Ryan, who has a whole new book about it.

5. **Maxent generative phonetics (grammar all the way to production/from perception)**
   - An ancestor, now formalizable in maxent: the “window model” of Keating (1990)
   - Outright maxent: Lefkowitz, Braver
   - If time: Boersma’s bidirectional system

6. **Things I feel ambivalent about but would be ok teaching if you ask me**
   - Delaware school phonology
   - Gradient symbolic representations