

Linguistics 563
Quantitative analysis and sound change in progress

| WEEK | TOPIC AND READINGS | ASSIGNMENTS |
|-------------------------------------|---|--|
| Part I: Synchronic variation | | |
| Jan 22 | Fundamental concepts definition of the linguistic variable and the relation of probability to linguistic structure Labov Quantitative Reasoning in Linguistics. Yang 2007 | #1: Coding -t,d deletion |
| Jan 29 | Individual and community variation. Phonological constraints on variables. Guy 1980 | #2: Error correction and reliability testing |
| Feb 4 | Functional explanation of linguistic variation for -t,d deletion and Romance (S) inflections Guy 1996. Labov 1994 | #3: Cross-tabulation, independence & interaction; use of chi-square. |
| Feb 11 | Change over the lifespan and the acquisition of linguistic variables CLH; Roberts 1997, Guy and Boyd 1990. | #4: Multi-variate analysis of -t,d deletion: logistic regression in SPSS, Varbrul and MatLab |
| Feb 18 | Exemplar theory and the role of word frequency Pierrehumbert 2002. Bybee 2002. | #5: Effect of word frequency on -t,d deletion |
| Feb 25 | Cyclic theories and the exponential model Guy 1991a, 1991b | #6: Testing the exponential model of -t,d deletion |
| Mar 3 | Stochastic OT and the Gradual Learning Anttila 1997. Boersma and Hayes 2000 | #7: Application of GLA to -t,d deletion |
| | Mar 6 Midterm exam | |
| | Mar 11 Spring break | |

PART II: DIACHRONIC VARIATION

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| Mar 18 | The study of sound change in progress Labov 1973. | #8: Acoustic analysis of vowels with Praat |
| Mar 25 | Phonological space and the general principles of chain shifting Martinet 1952. Labov 1994, Chs. 5-6. | #9: Analyzing vowel systems with Plotnik |
| April 1 | Neogrammarian sound change vs. lexical diffusion Labov 1981, Labov 1994, Ch. 18 Chen & Wang 1975, Krishnamurti 1998; Phillips 1984; | #10: Regression analysis of phonological and lexical effects w/ Data Desk & SPSS |
| Apr 8 | The mechanism of mergers WLH 1968; Trudgill & Foxcroft 1978 Herold 1990, Baranowski 2006 Johnson 2006 | #11: Procedures for detect- ing merger: minimal pair and commutation tests |
| Apr 15 | The asymmetry of production and perception Janson & Shulman; Labov 1994; Di Paolo 1988, Di Paolo & Faber 1990 | #12: Detecting near-mergers: categorization and discrimi- nation experiments |
| Apr 22 | The role of word frequency in linguistic change Pierrehumbert 2000 | #14: Multivariate analysis of frequency effects in ANAE data. |
| Apr 29 | The family tree vs. wave model: transmission and diffusion Labov 2007 | #15: Final exam |