## Phonetics and Linguistics, UCL PLINX202 ENGLISH ACCENTS

## Week 5. Statistical analysis

Investigating the **variants** of a phonological **variable** and correlating them with nonlinguistic variables. For example, (h) is defined as a phonological variable, with variants (h)-0 (phonetic zero) and (h)-1 (phonetic [h]). Non-linguistic variables might include social class, sex, and age.

1. **H dropping**. Percentages of dropped /h/ in London schoolchildren (Hudson & Holloway 1977); by class and sex

	boys	girls
middle class	14	6
working class	81	18

2. The *-ing* variable. Percentages of alveolar forms in Norwich (Trudgill 1974), formal style; by class and sex

	men	women
MMC	4	0
LMC	27	3
UWC	81	68
MWC	91	81
LWC	100	97

ditto, by class and style

	word list	reading passage	formal convers	. casual conversation
MMC	0	0	3	28
LMC	0	10	15	42
UWC	5	15	74	87
MWC	23	44	88	95
LWC	29	66	98	100

3. Bird and "boyd" in New York City. Relates to words in list (a), not (b).

(a) bird, nurse, first, certain, permit... (b) stir, her, occurred, stirring...

Older variant [31], newer [32]. Percentages of [31] forms in NYC (Labov, 1966), by age:

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age	8-19	4
	20-39	24
	40-49	33
	50-59	59
	60+	100

4. (ou) in Milton Keynes. *Coat, moan* etc. (ou)-0 [o:, ou] Northern, Scottish etc.; (ou)-1 [vu, vü] older Bucks., London; (ou)-2 [æY] fronting; (ou)-3 [æI] fronting and unrounding

	(ou)-0,1	(ou)-2	(ou)-3
4-year-olds	55.7	30.2	13.5
8-year-olds	33.3	53.6	12.9
12-year-olds	28.2	68.6	3.0
caretakers	60.0	37.3	3.5