QUANTIFYING MERGING VOWELS

Or why os and ós rhyme in Girona Catalan

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RESEARCH PROJECT

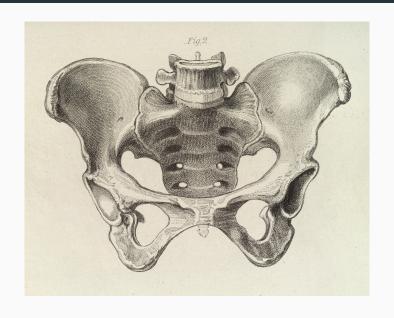
Description and Interpretation of Language Variation:

Phonic and Morphological Aspects of Catalan and other Romance Languages

(FFI2014-46987-C3-1-P)

AND WHAT IS YOUR THESIS ABOUT?

A THESIS ABOUT VOWELS



A THESIS ABOUT VOWELS



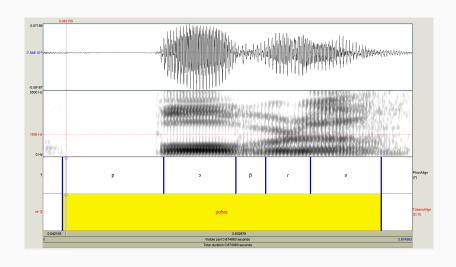
A THESIS ON VOWELS YOU CAN'T DISTINGUISH?

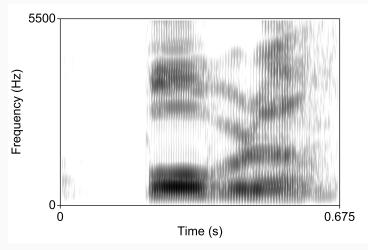
STUDYING VARIATION IN SPEECH SOUNDS

Sociophonetics: the interface of sociolinguistics and phonetics, and specifically (...) the use of modern phonetic methods in the quantitative analysis of language variation and change.

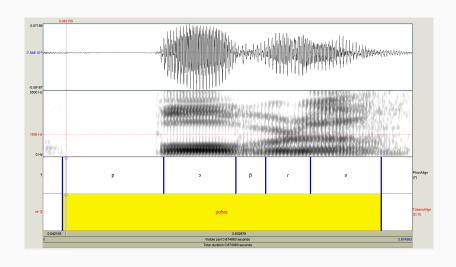
Baranowski, M. (2013). Sociophonetics. Oxford Handbooks Online. Retrieved from http://www.oxfordhandbooks.com

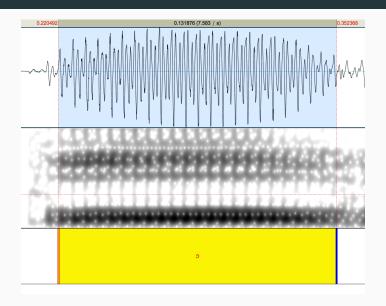
WHAT KIND OF METHODS?

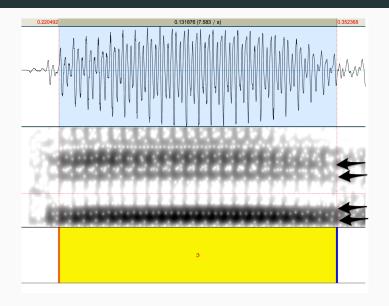




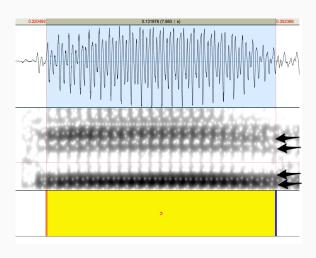
Spectrogram: the representation of a sound signal in terms of the energy (intensity) spread over its frequency components (y) and of the changes that occur over time (x)



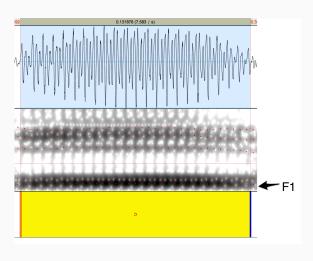




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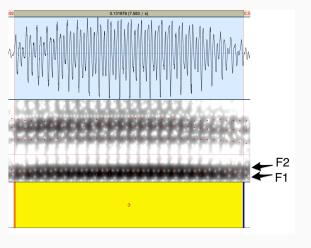


· Formants: peaks of energy



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- **F1:** opening of the oral cavity

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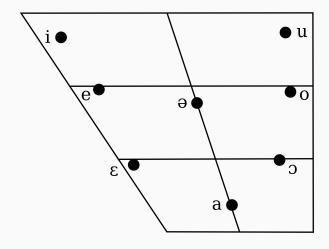


- · Formants: peaks of energy
- F1: opening of the oral cavity
- F2: backness of the tongue

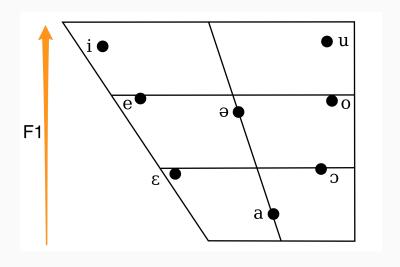
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AND WHAT DO YOU DO WITH THAT?

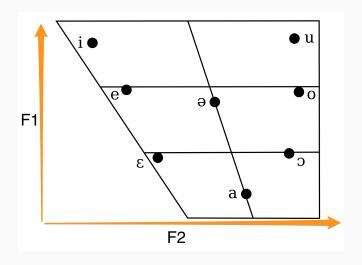
REMEMBER PHONETIC TRANSCRIPTION?

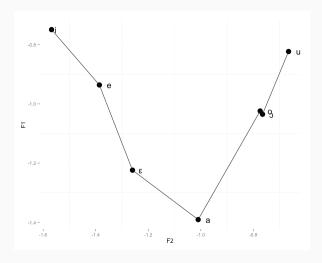


IT'S ALL ABOUT FORMANTS



IT'S ALL ABOUT FORMANTS





F1xF2 NEAREY1-normalised mean values of the vowels obtained from speakers in the Ter-Brugent area.

SO... WHAT?!

USES OF SOCIOPHONETIC STUDIES

- · Language teaching
- · Speech technologies
- Knowledge on speech production and perception
- · Language theory

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Presentation available at www.ub.edu/GEVAD

Thank you!