

Phonetics experiments (II): Results and analysis

We have been looking at Gallagher & Whang's (2014) Quechua ejectives paper as an example of a phonetics research project that involves **acoustic analysis** of **phonetic production data**.

- (1) For each of the following analyses:
 - What research question did the analysis address?
 - What numerical comparisons were carried out?
 - What data graphics show the results?
 - What did G&W find?
 - (a) "Analysis of accuracy" (G&W 2014: 141)
 - (b) "Boundary measures" (G&W 2014: 143, 144)
 - (c) "Ejection measures" (G&W 2014: 143, 144)

- (2) Evaluating the analyses:
 - (a) In each analysis, how similar are the results by participant to the aggregated results? Do you think the aggregated results are meaningful?
 - (b) In each analysis, is there any other quantitative comparison you would have liked to see G&W try?
 - (c) Any other concerns or comments?

- (3) In the Discussion section (G&W 2014: 150-151):
 - (a) How do G&W relate the results to their specific research questions?
 - (b) What do G&W have to say about their big-picture RQ?
 - What is G&W's explanation for why C'V(#)C'V sequence is easier to produce when there is a word boundary?
 - Does this explanation straightforwardly explain why C'VC'V sequences never occur inside roots? Why or why not?
 - (c) Do G&W raise any other issues or points in the Discussion?