Ongoing sound changes in the Luxembourgish vowel system Peter Gilles (University of Luxembourg)

In the paper I am going to address some ongoing sound changes in Luxembourgish by using crowd-sourced data. As a predominantly spoken and mostly non-standardised language, Luxembourgish is characterised by a large amount of sociolinguistic variation, shaped by factors such as region, age, gender and educational level and others. In order to capture this variation on a large scale, a crowd-sourcing method has been developed using an innovative smartphone application (Entringer et al. 2021, Gilles 2019). By using the app, participants made audio recordings by translating short sentences from either German or French to Luxembourgish. Depending on the recording item, between 1400 and 500 speakers, ranging from all age groups, provided audio recordings to this largest survey yet on Luxembourgish.

After a presentation of the pipeline used to compile the corpus, to annotate the data, to extract acoustic measurements and to run statistical tests, the study will focus on the open monophthongs [æ], [a:] and [a] as well as the corresponding diphthongs [æ:t], [æ:v], [at] and [av] and their variation according to social parameters.

Bibliography

Brand, James, Jen Hay, Lynn Clark, Kevin Watson & Márton Sóskuthy. 2021. Systematic co-variation of monophthongs across speakers of New Zealand English. Journal of Phonetics 88. 101096. https://doi.org/10/gmtczv.

Entringer, Nathalie, Peter Gilles, Sara Martin & Christoph Purschke. 2021. Schnëssen. Surveying language dynamics in Luxembourgish with a mobile research app. Linguistics Vanguard 7(s1). 20190031. https://doi.org/10/gh6d34.

Gilles, Peter. 2019. Using crowd-sourced data to analyse the ongoing merger of [¢] and [ʃ] in Luxembourgish. In Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia 2019 Edited by Sasha Calhoun, Paola Escudero, Marija Tabain and Paul Warren, 1590–1594. Melbourne. http://intro2psycholing.net/ICPhS/papers/ICPhS_1639.pdf.

Stanley, Joey. 2020. Vowel Dynamics of the Elsewhere Shift: A Sociophonetic Analysis of English in Cowlitz County, Washington. Athens, GA: University of Georgia PhD Dissertation. http://joeystanley.com/downloads/200417-dissertation_submitted.pdf.