/s/-retraction in Moroccan Dutch and endogenous Dutch

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A reported characteristic feature of Moroccan Dutch is the pronunciation of /s/ as /ʃ/ in onset consonant clusters, specifically in /sl/, /sx/, /sm/ and /sn/ (e.g. [1,2,3]). It has recently been found that in endogenous Dutch in the Netherlands /s/ is also pronounced more towards /ʃ/ ([4]). This leads to the main question: Is Moroccan Dutch [s] in onset consonant clusters more retracted than endogenous Dutch [s]?

In addition, the use of Moroccan Dutch as an identity marker ([2]) gives rise to a second question. Speakers converge in their pronunciation in order to emphasize similarity ([5]). We hypothesize that speakers of Moroccan Dutch might converge more in their [s] realizations. The second question therefore is whether there is a difference in inter-speaker variability in the pronunciation of /s/ between Moroccan Dutch (MD) speakers and endogenous Dutch (ED) speakers.

These research questions are investigated by using data from the NFI-FRIDA database ([6]), which contains speech from young L1 speakers of Dutch with an MD or an ED background. Tokens included in the analyses are /s/ in onset clusters; three clusters eliciting retraction mentioned in the literature on MD (/sn/, /sx/, /sl/), and other frequent onset clusters (/st/, /str/ and /sk/). Several acoustic-phonetic measures reflecting /s/ realization and retraction are taken: Centre of Gravity, spectral standard deviation, and spectral maximum.

We will investigate [s]-retraction as function of both Speaker Group (MD, ED) and Phonemic Context (typical vs a-typical clusters for retraction). We expect MD speakers to have a more retracted [s] in the typical retraction context than ED speakers, and MD speakers to show less inter-speaker variability than ED speakers.

References

- [1] Van Krieken, E. (2004). Van immigratie tot ethnolect. Radboud University, Nijmegen.
- [2] Nortier, J., & Dorleijn, M. (2008). A Moroccan accent in Dutch: A sociocultural style restricted to the Moroccan community? *International Journal of Bilingualism*, 12(1–2), 125–142.
- [3] Mourigh, K. (2017). Stance-taking through sibilant palatalisation in Gouda Moroccan Dutch. *Nederlandse Taalkunde*, 22(3), 421–446.
- [4] Ditewig, S., Pinget, A. C. H., & Heeren, W. F. L. (2018). Regional variation in the pronunciation of /s/ in the Dutch language area. *Nederlandse Taalkunde*, *Accepted*.
- [5] Giles, H. (1973). Accent mobility. A model and some data. *Anthropological Linguistics*, 15, 87–105.
- [6] Van der Vloed, D., Bouten, J., Kelly, F., & Alexander, A. (2018). NFI-FRIDA Forensically Realistic InterDevice Audio database and intial experiments. Presented at The 27th Annual Conference of the International Association for Forensic Phonetics and Acoustics (IAFPA), p.25-27. Retrieved from: https://iafpa2018.files.wordpress.com/2018/09/iafpa_2018_abstract_booklet_5.pdf