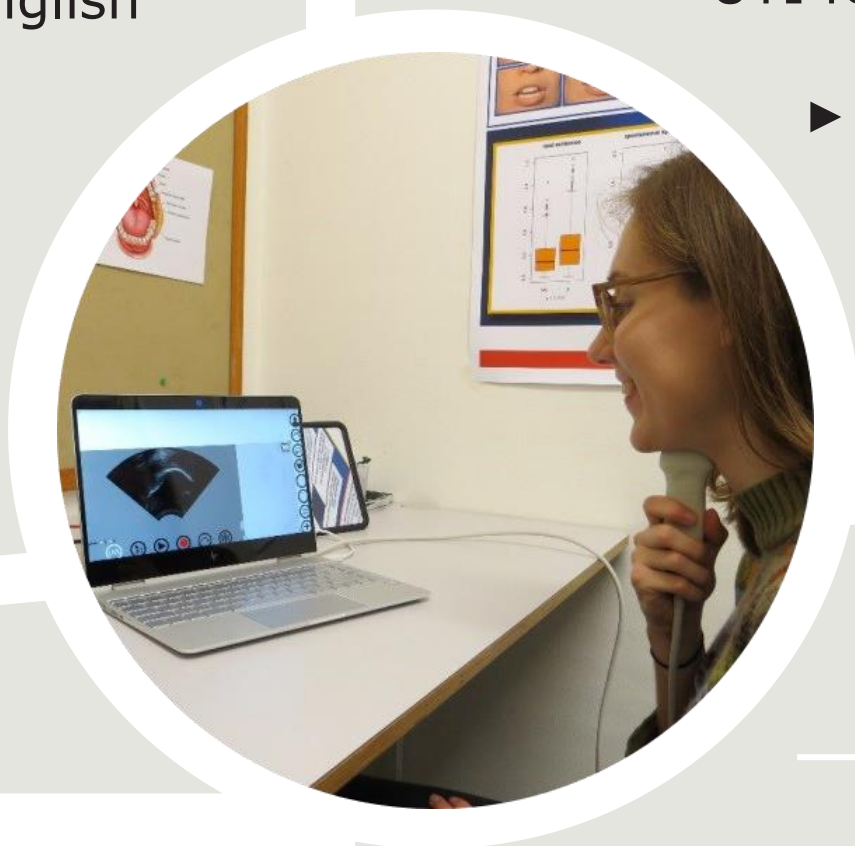


# Using Ultrasound Tongue Imaging to Improve L2 English Pronunciation in Dutch Students

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## BACKGROUND

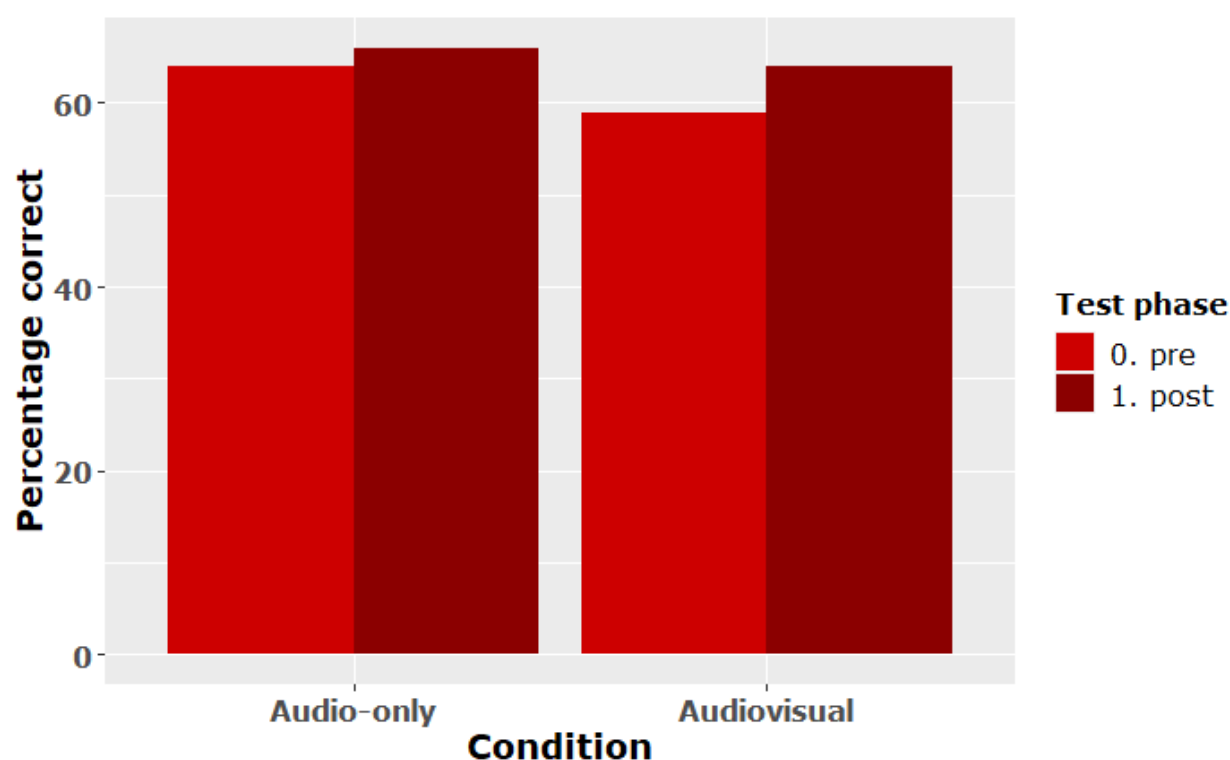
- ▶ Potential **beneficial effect** of UTI feedback on L2 pronunciation (e.g. Tateishi & Winters, 2013; Ouni, 2014)
- ▶ Our study:
  - Dutch L2 learners of English
  - Is visualization **more helpful** for particular target sounds?



## METHOD

- ▶ **37 monolingual Dutch** speakers (aged 12-15)
- ▶ Targets: **/æ/-/ε/** and **/k/-/g/**
- ▶ Training session (20 min): access to audio recording of NS (**audio-only**) or UTI recording of NS and UTI feedback (**audiovisual**)
- ▶ Rating of pre- and post-test audio recordings by **248 NS of English**

## RESULTS



- ▶ Words in **post-test** more often recognized correctly ( $p < .05$ )
- ▶ No significant difference between audio-only and audiovisual group
- ▶ Short training session can help in improving L2 sound contrasts, but **more practice time** might be needed to reap benefits of UTI feedback

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