

«Pope» or «Porridge»?

The Acquisition of Consonant Length in L2 Italian

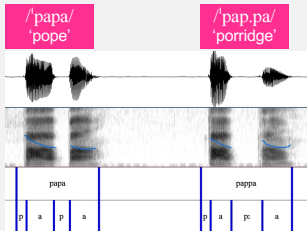
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Team of the DFG Project: "Production and perception of geminate consonants in Italian as a foreign language: Czech, Finnish, German and Spanish learners in contrast"



1 Introduction



Background

- One important characteristic of (Standard): **geminate, phonetically long consonants**, that build minimal pairs with their phonetically short counterparts (e.g., *papa* vs. *pappa*).
- There are 15 **lexical** (word-internal) geminates and 5 **inherent geminates** that are always pronounced as long (e.g., *grazie* [ts] 'thank you').

• Since geminates appear in only 3.3% of the world's languages, they are considered so-called marked consonants.

• According to Eckman's (1977) **Markedness Differential Hypothesis**, such sounds pose particular difficulties for foreign language learners (see, e.g., Lado 1957; Derwing & Munro 2015; Colantoni et al. 2015).

Research Questions:

Does the **first language** play a crucial role in the perception of geminates in L2 Italian?

Which **other intra- or extralinguistic** factors can be identified?

Is there a **universal or language-specific** hierarchy of geminates that poses difficulties for non-L1 speakers?

AIMS OF THE PROJECT

→ To contribute to the SLA research by exploring how adult learners with **different L1 background** acquire (word-internal) consonant length in L2 Italian.

→ To bring the linguistic knowledge gained with empirical methods into the **language classroom**.

2 Hypotheses

- L1:** Since the first language is always „active“ while learning (Westergaard et al. 2016: 13) and a transfer is taking place (cf. Flege & Bohn 2021), the perception of quantity is expected to be determined by L1: **Finnish** (vowel and consonant length in stress/unstressed position) > **Czech/Slovak** (vowel length in stress/unstressed position) > **German** (vowel length in stress position) > **Spanish** (no consonant and no vowel length).
- Stress position:** The perception of the length contrast is expected to be easier in the most prominent post-stress and pre-stress position (e.g., *sàppolo* vs. *sàpolo*; *sappòlo* vs. *sapòlo*) compared to less prominent unstressed positions (e.g., *sappòlo* vs. *sapòlo*).
- Proficiency:** Learners' perception abilities are expected to **improve at proficiency** level C (proficient users) compared to levels B (independent users) and A (basic users).
- Sound type:** The type of sound and the presence/absence of voicing are expected to show different tendencies in learners' perception due to the inherent acoustic properties.

100 learners of Italian

25 L1 Czech
23 L1 Finnish
24 L1 German
20 L1 Spanish
8 L1 Slovakian
22 L1 Italian

3 Methods

Production & Perception experiment (ca. 60min)

- Semi-spontaneous data: short sociolinguistic interviews
- Controlled data: repetition task; reading of a short text and word list
- Perception Identification and Perception AX-Discrimination Task (*present data*)

AX-Discrimination Task

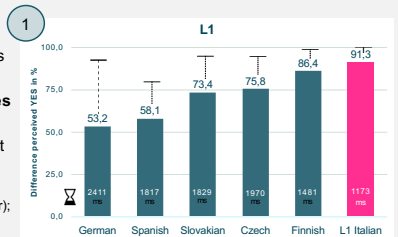
- Verifies** whether learners perceive the difference in consonant quantity.
- Items:** 45 pairs of pseudowords, controlled according to word length (three syllables), stress position (pre-stress/post-stress with long stressed vowel/post-stress with short manipulated stressed vowel/unstressed), and consonant type.

"Do the two items belong to the same word (e.g., *sappòlo* vs. *sapòlo*)?" **YES / NO**

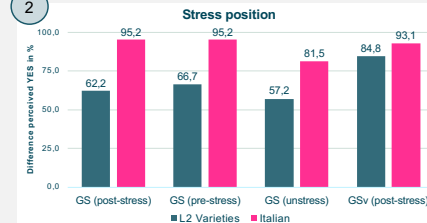
4 Results

First language (***):

- The strongest impact: learners with **L1 that has quantity contrast perceive differences** in L2 Italian more often than speakers of a L1 that does not have this quantity contrast (= *Perceptual Assimilation Model*; *Speech Learning Model revised (SLM-r)*; *Linguistic Proximity Model*).



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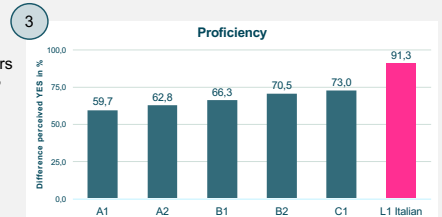


Stress position (**):

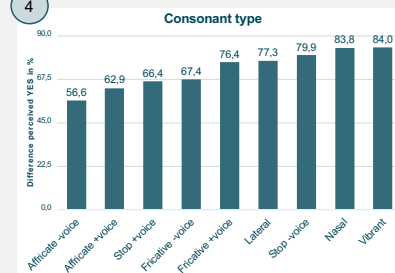
- Unstressed position shows the lowest recognition values (cf. Soriano 2014).
- L1 Italian speakers** display high sensitivity for consonantal length both in stress position (93%-96%) and unstress position (81.5%).

Proficiency (*):

- More advanced learners are better "performers" compared to less advanced learners (cf. Altmann et al. 2012).
- Further individual variation (!)



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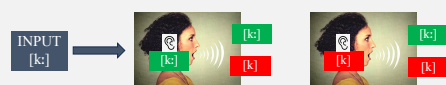


Sound (**):

- Sonorants (nasals, laterals, vibrants) are more easily categorized than obstruents (stops, fricatives, affricates) – voiceless stops being the exception (cf. Dmitrieva 2017).
- Language-specific differences:** Finnish learners: 97% accuracy with voiceless plosives; Spanish learners: 100% accuracy with rhotics; L1 group: high accuracy across all sound types.

5 Summary & Outlook

- The perception of differences in consonantal length is strongly influenced by multiple factors. While **learners' proficiency** level plays a minor role, **L1, the position of word stress, and the type of sound** are more significant determinants.
- These initial findings have **implications for foreign language acquisition and teaching**, especially in the context of training phonological contrasts in a new L2.
- In the next phase of this research, it will be explored whether the observed behaviors in perception and production of quantity are **symmetric or asymmetric**:



- Finally, it will also be tested **how L1 Italian speakers** perceive and interpret L2 consonant length.