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# Phonological interferences in bilingual acquisition: focus on French and Greek fricatives 

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| GLOSSARY |
| :---: |
| Phonological system acquisition |
| = establishing sound contrasts |
| in perception $=$ adult-like identification of |
| correct and incorrect realization of contrast's |
| members |
| in production $=$ adult-like realization of |
| contrast's members |
| Simultaneous bilinguals: children exposed to |
| two languages since birth (Patterson, 2002) |


| Laboratoire de Phonétique et Ph |
| :--- | :--- |
| RESEARCH QUESTION |
| Aim: Show evidences of interaction between <br> phonological systems in bilingual acquisition <br> by comparing them to monolingual peers, under <br> three types of interferences in production and <br> perception <br> Question: How do sound systems interact in <br> bilinguals' production and perception? |
|  |


| INTERFERENCES, SIGNS OF INTERACTION <br> Paradis \& Genesee (1996) | OUR HYPOTHESES in PERCEPTION \& PRODUCTION |
| :---: | :---: |
| Acceleration: Earlier emergence of certain properties in one or both languages in bilinguals compared to monolinguals | Shared contrasts between both languages LABIAL-CORONAL (/f, v/ vs. /s, z/) |
| Deceleration: Later emergence of certain properties in bilinguals compared to monolinguals | Specific contrasts between both languages <br> [ $\pm$ posterior] for French (/s, z/ vs /J, $3 /$ ) \& [ $\pm$ strident] for Greek (/s, z/ vs / $\theta$, $\mathrm{z} /$ ) |
| Transfer: One property is transferred from one language into the other + is strongly influenced by language dominance | Influence of input on acquisition of specific contrasts $[ \pm$ posterior] $\rightarrow / \mathrm{s}, \mathrm{z} /$ vs $/ \mathrm{J}, \mathrm{z} /$ acquired before $[ \pm s t r i d e n t] ~ \rightarrow / \mathrm{s}, \mathrm{z} / \mathrm{vs} / \theta$, д/ |




Perception: Bilinguals showed more confusion than monolinguals when
$/ \delta /$ is the target member of $[ \pm$ strident $] / z / /$ / in Greek bit $/ \overline{/} /$ is the target member of [ $\pm$ strident $] / z / / / \bar{\delta} /$ in Greek but not in French

3. Transfe


Production: Bilinguals showed more substitutions with $[z]$ than monolinguals when $/ \delta /$ is the target member of $[ \pm s t r i d e n t] / / / / / \delta /$ in Greek and $[s]$ for $/ / /$ in French


Production: Bilinguals showed less substitutions with $[\mathrm{s}]$ when the target
is the French $/ \mathrm{/} /$ than when the target is the Greek $/ \theta /$ is the French /// than when the target is the Greek / $\theta /$


DISCUSSION \& CONCLUSION

## Interferences are

Triggered by cross-linguistic differences in structural properties: 1. No acceleration: bilinguals did not show better perception nor production of shared contrasts' monolinguals
2. Deceleration: bilinguals showed more substitutions and more confusion than monolinguals when targets are [-strident] $/ \theta$, $\delta /$ in Greek and [+posterior] //5, $3 /$ in French

Affected by language dominance in the child's input (Foroodi-Nejad \& Paradis (2009)) 3. Transfer in contrasts acquisition order: French contrast [ $\pm$ posterior] is mastered before the Greek contrast [ $\pm$ strident]

## General Bilingual Effect

* Less confusion + Shorter reaction time to identify inaccurate realisation of shared
$\rightarrow$ Could be interpreted as acceleration


## BUT

* It would not be linked to interaction it would not be linked to interaction between structural properties but rather
to a general bilingual effect (Kehoe \& Havy, 2019), resulting in:
a more efficient information processing (Patuto et al., 2011) a higher perceptive sensibility by bilinguals

