Using an imitation task and PHON software to study L2 phonological acquisition by young French learners of English

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early stages of phonological acquisition, young learners

- French primary-school learners of English as a foreign language (L2 English)
- three (unrelated) studies, different exposure to English
- 102 Francophone monolinguals, 55 bi/plurilingual children (n=157)
- ages from 6 to 10
- data from four (different) imitation tasks, transcribed with PHON software
- overarching research questions

characteristics of early L2 English pronunciation

shared or contrasting characteristics (ages, language profile, learning conditions) contribution of phonological learning/ knowledge/ skill to L2 knowledge/ skill

phonological acquisition in early foreign-language (instructed) contexts

psycholinguistic vs. language-teaching theories: major disconnect

European Task-based LT/L methodology

(European Framework for Languages, 2000 > French national syllabus)

- (obsolete) language-learning theory (*CEF*, ch 6): Chomsky's LAD via Krashen (Hilton 2014, 2021) using a language = learning it (the "user-learner") by communicating, learner will *pick up* ('acquire') the new formal system
- explicit language exercises (pronunciation, vocabulary, grammar) are unecessary
- native-speaker model rejected (CEF p. 5), esp. for pronunciation
 - 'identity' value of non-native accent (Perez Cañado 2022) Jenkins (2001): minimal intelligibility features of English as a *lingua franca*

NB: production bias - effects of approximate phonology on **comprehension** rarely mentioned/ studied

L1, L2 acquisition research

- acquisition of L1 prosodic features begins before birth (receptive knowledge: Fifer & Moon 1994; Gervain 2018)
- first 12 months (Kuhl et al. 2006; Florin 2019): acquisition of L1 phonemic categories (reception) concerted effort for articulation of language sounds
- phonological knowledge the basis for lexical/ language acquisition (Christophe et al. 1997)
 - brains more 'committed' to L1 phonemes at 8 months >> better language knowledge & skill at age 2 (Kuhl et al. 2008)
 - bilinguals: strong, **separate** neural networks for each language's sounds and sound patterns; little or no interference (Pérez et al. 2018)
- in adults: powerful effects of receptive training on acquisition of new phonemic categories, even in adults, long-time LL (Iverson et al. 2003)

L1, L2 acquisition research

- human capacity for imitation instinctive, universal basis for all cultural learning (Tomasello 2016), including language
- importance of visual information in language comprehension and learning visual speech = visible articulatory gestures (Hardison 2003)
 neglected in language classrooms/ communicative methodology
 Erdener + Burnham (2005): audiovisual presentation enhances L2 lexical learning
- foreign-language phonological acquisition (in classrooms)

 enhanced/ reinforced by exposure to nativelike models (Flege et al. 2003)
 complicated by simultaneous use of orthographic system (more opaque languages and L1/L2 shared graphemes: Escudero 2015; Bassetti 2017; Mairano et al. 2018)
 perception before production -? inconclusive/ mixed findings (influenced by lexical knowledge, L2/L1 GPCs); both must be trained (Sakai & Moorman 2018, Messum & Young 2021)

L2 phonological acquisition in young learners

- classroom L2 teaching/ learning: "younger is better" policy/ ideology most European countries lowering age for beginning language instruction (usually without accompanying methodology, teacher training, resources: Enever 2018)
- (only) advantage of younger learners: phonological (Muñoz 2007)
 - greater plasticity of phonological networks
 - also less social inhibition, "identity" yet to emerge
- importance of explicit focus on phonology in early L2 instruction more recent European Commission texts (2018) now make this point

our studies, findings

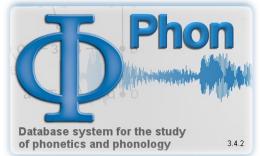
(brief overview)



study	n=	first year of Eng study	LL ages	lang profile	study focus & structure
1	54	CP (Year 1) CE2 (Year 3)	6 (25 LL) 8 (29 LL)	monolinguals (43) bi/ plurilinguals (7) ^[unknown (4)]	2 schools* (same <i>regroupement scolaire</i>); effect of T pronunciation [part of larger study]
2	63	CP CE2	6 (25) 8 (38)	monolinguals (26) bilinguals (37)	2 schools; effects of previous exposure and learning condition (presence/ absence of visual speech) focus of study
3	[157] 40	[CE2-CM2] CM2 (Year 5)	[7 - 10] 8 (1) 9 (31) 10 (8)	monolinguals (29) bi/ plurilinguals (11)	2 schools (3 total); effects and implementation of immersion learning (CLIL maths) [part of larger study]

* all participating schools are public primary schools in urban (Study 2) or periurban communities (Studies 1 & 3)

imitation task + PHON software



- "elicited imitation" task used in SLA research to study general proficiency immediate repetition of L2 utterances, increasing complexity scored qualitatively by judges (0 to 4 points for each utterance) robust measure (Tracy-Ventura et al. 2014 for review)
- learner imitations transcribed with PHON transcription software: https://phon.ca (Hedlund & Rose 2020)
 correlations, PHON ratings (study 1, imitation)
 - quantitative measures of L2 imitation skill (nb, % phonemes matching "target", etc.)
- powerful tools for studying developing L2 phonology

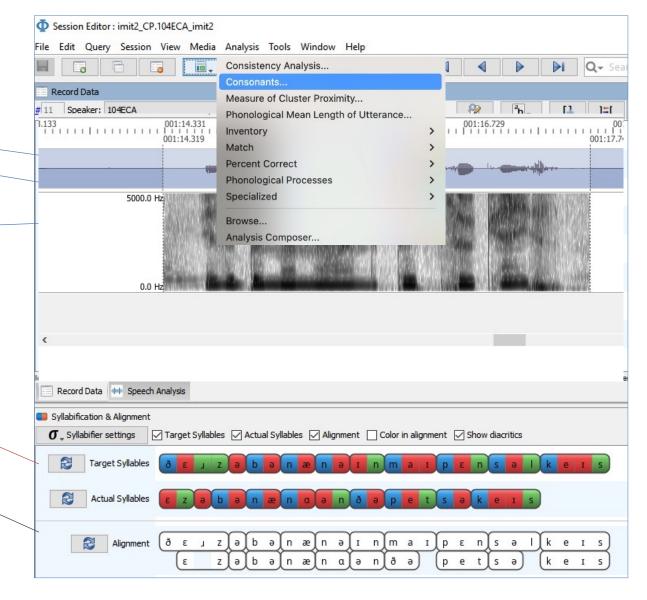
correlations, PHON values with human ratings (study 1, imitation task 1):

- *r*=.68*** nb correct phones
- *r*=.62*** % correct phones
- *r*=.66*** % word matches
- *r*=.58*** % stress match (prosody)

examples, PHON transcription window

- 1. lexical transcription of target utterances
- automatic generation of "target" IPA values (edited to correspond to stimuli heard)
- 3. phonetic transcription of "actual" phonemes produced by learner first transcriber anglophone; verification by francophone (Rose 2017)
- 4. PRAAT incorporated for for fine-grained analysis during transcription
- 5. automatic phoneme position identification
- automatic alignment (requiring manual adjustment, due to distance from L1 targets)

some challenges for automatic analyses, since lexical targets not always closely matched by learner imitation



additional information on learners & learning context

	(1, 2, 2)	atudu 2 (yaar Ea)	atudu 2 (ucore 1, 9, 2)
	study 1 (years 1 & 3)	study 3 (year 5s)	study 2 (years 1 & 3)
imitation task	time 1 (Feb), time 2 (May)	time 1 (March) time 2 (cancelled covid)	single word repetition task, 1 week after group word-learning intervention
other English measures	reception: auditory discrimination, listening (in-house test) open production (from pictures)	listening, production (Cambridge <i>Starters</i> tests)	word recognition, recall, auditory discrimination
learner variables	L1 verbal (French vocabulary, listening) cognitive measures (digit span, reverse DS, attention, nonword repetition) socio-affective profile (year 1 only) motivation for English, language profile	Math grades, French grades cognitive profile (result of psychometric testing: dyslexic, dyscalculic, learning difficulties, normal) motivation for English, language profile	cognitive measures (digit span, sustained attention) teacher rating of L1 reading skill language profile (parental questionnaire)
institutional variables	teacher interviews three weeks of filmed lessons (each classroom), transcribed and coded (interactions)	focus group; pre-/ post-questionnaires, regular group exchanges (in CLIL teacher training context)	

study 1 – Seine&Marne Primary English Corpus

Year 1: 25 learners (15 girls, 10 boys)

- 20 mins of English (first subject), 4 days/ week
- linguistically confident teacher (English major), nearnative phonology
- insistence on Anglophone pronunciation of new words (rejection of approximations, focused imitation)
- approx. 2000 words per week produced by T (MLU 2.8),
 700 by learners (60% group prod)

Year 3: 29 learners (15 girls, 14 boys)

- 45 mins of English, 2 days/ week
- teacher linguistically unsure, in particular her pronunciation in particular (structured interview)
- little classroom focus on pronunciation
- approx. 1000 words per week produced by T (MLU 2.3), 400 by learners (70% individual prod)

imitation stimuli derived from filmed lessonsimitation 1 task in mid-February (16 target utterances)imitation 2 in late May (12 target utterances, 6 from imit1)

80 75 70 60 60 60 55 50 45 40 PPC_imit1 PPC_imit2 80 10(24, 28)=133, p<.000*** 10(24, 28)=133, p<.000*** 10(24, 28)=133, p<.000*** 10(24, 28)=133, p<.000***

imitation in February and May, by class (percent phonemes 'correct')

 difference due to vowel sounds
 U(24,28)=76; p<.000***</td>

 Yr1 learners
 59.5% vowels correct (range 44.4-70.3)

 YR3 learners
 48.8% vowels correct (range 38.6-58.6)



phonological consistency; development over time

first word of who are
<i>you?</i> in February, by
class (four months of
English)

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Session	Speaker	Record #	Orthography	IPA Target	IPA Actua
imit1_CP.104ECA_imit1	104ECA	9	who	'hu:	'hu:
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imit1_CP.107BF_imit1	107BF	9	who	'hu:	'wi:
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imit1_CP.111OL_imit1	1110L	9	who	'hu:	'hu:
imit1_CP.112DL_imit1	112DL	9	who	'hu:	'hu:
imit1_CP.113CMT_imit1	113CMT	9	who	'hu:	'hu:
imit1_CP.11400_imit1	11400	9	who	'hu:	'hu:
imit1_CP.115MO_imit1	115MO	9	who	'hu:	'hu
imit1_CP.116MPA_imit1	116MPA	9	who	'hu:	'hu:
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	Seine&Marne items in	nb_sylls	target_ phones		corr_ max	Year 1 PPC	Year 3 PPC
1	May four boys	2	7	2	7	71,4	76,7
2	who are you?	3	6	1	6	75,0	58,0
3	six pencils	3	11	4	11	78,0	75,4
4	seven books	3	9	6	9	91,7	86,0
5	how old are you?	4	11	3	10	63,3	65,3
6	today is Thursday	5	14	3	12	59,5	53,7
7	there's a monkey on the table!	8	20	0	16	60,4	44,1
8	there's a banana in my pencil case!	10	26	0	18	53,5	44,2
9	I like chocolate	4	12	5	12	83,3	69,1
10	would you like an orange?	6	16	0	13	54,7	49,1
11	we need some eggs	4	11	0	9	44,7	45,5
12	is everybody ready? (CP)	7	14	0	12	42,9	
12	do you like jam on your pancakes? (CE)	8	24	7	20		54.2

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there's a banana in my pencil case!

effects of lexical knowledge (content words); development of function words

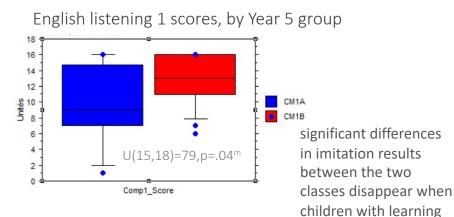
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EMILE-Gex corpus (imitation task data a subset of two Year 5 classes: same school, avg age 9;6 in both classes) – immersive L2 learning

Year 5, class A: 20 learners (11 girls, 9 boys)

- 1h30 English lessons + 6h CLIL (Sports, Math & Art)
- teacher: school principal with 15 yrs experience, B2 level in English
- 4 bi/plurilinguals (2 with English)
- 1 dyslexic, 5 learning difficulties, 1 Deaf

for analyses, 2 boys' files removed from class A (technical problem + Deaf learner); Anglophone LL removed from most analyses



Imitation and other measures, by cognitive profile

Imit-% corr phones

Imit word match

Eng-listening1

Eng-listening2

difficulties are removed

Year 5, class B: 20 learners (14 girls, 6 boys)

- 1h30 English lessons + 6h CLIL (Sports, Math & Art)
- teacher: 6 yrs experience, English major, C2 level in English; instigator of CLIL program in her school
- 6 bilinguals (3 with English)

p<.01*

60

2 dyslexics, 1 learning difficulties

imitation stimuli derived from planned curriculum (math lessons) imitation task in mid-March (11 target utterances), with no follow-up 😕

	with Anglophones r =	without Anglos r =
Listening 1 and imitation (% correct phones)	.73***	.63**
Listening 1 and imitation (% correct vowels)	.73***	.62**
Listening 2 and imitation (% correct phones)	.572**	.50*
Listening 2 and imitation % correct vowels	.51**	.42 ^{m (p=.03)}
Listening 1 and imitation prosody (% stress match)	.75***	.65***

Correlations between imitation and L2 listening

p<.01*

p=.03^m

p=.01

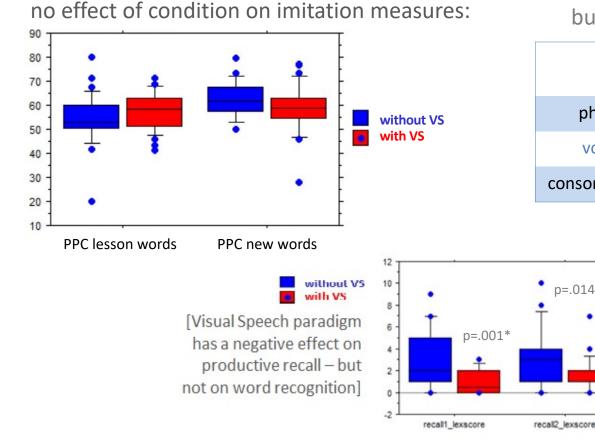
L-difficulties dyslexics normal

14

Visual Speech project

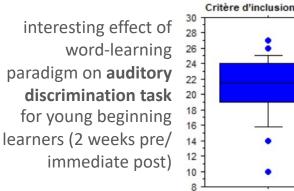
- 23 girls, 31 boys 2 schools, Year 1 & Year 3
- word-learning paradigm with total beginners (6 year-olds in October), and post-beginners (8 year-olds in May)
- group learning paradigm: picture slides, each word heard 6 times, repeated out loud 5 times; • in 'Visual Speech' condition, audiovisual vignette added to learning slide (10 minute learning protocol)
- word-repetition (imitation) task, 1 week after learning protocol: 8 lesson words, and 8 new (unknown) words

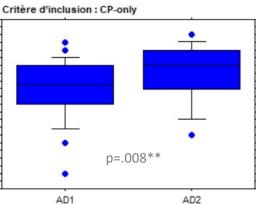
p=.014^m



but interesting things going on, phonetically (whole group)

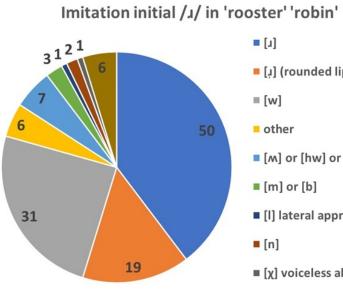
	repetition lesson words	repetition new words	Wilcoxon signed ranks
phones correct	54.3	61.8	K <u (z="-3.26," p=".001)</th"></u>
vowels correct	50	38.5	K>U (z=-3.5, p<.000***)
consonants correct	58.6	71.4	K <u (z="-6.5," p<.000)<="" td=""></u>





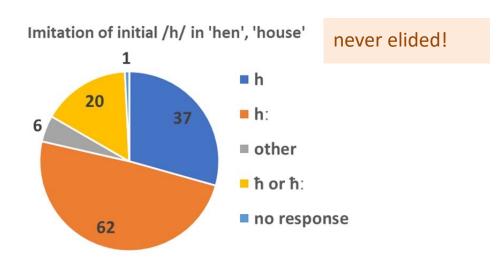


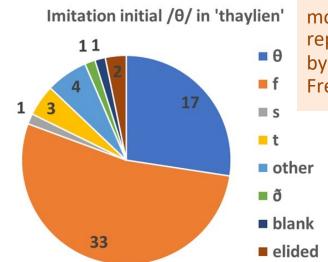
consonants in early development





- [n]
- [x] voiceless allophone of French /ʁ/





most frequently replaced by [f], rarely by [s] (frequent in French EFL)

Seine&Marne realizations of $/\theta$ / in *thursday*



final remarks

 data begging for multivariate analyses, detailed analyses of outliers/ individuals with particular cognitive, linguistic or social profiles (Complex Dynamic Systems paradigm)

hidden structure in interactions between multiple variables

good projects/questions: concerning identity, affinity with target culture, ability/ inability to perceive/ generate new phonemic categories, L1 imitative skill, etc.

- <u>essential</u> to look at fine-grained phonetic and prosodic characteristics of learner productions, if we want a full picture of the dynamic processes at work in language acquisition (>> effects on perception & listening)
- problems still to be sorted with automatic item analyses in PHON version 3.4.2, due to changes in transcription conventions

invitation for collaborators: our data is your data!

Thank you

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partners & participants

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Teachers, children, parents - ten different French primary schools



PHON Consistency Analyses (*en attente*)

PHON Consistency analyses: 4 categories of phonemes

- Accurate & Consistent
 Accurate & Inconsistent
- Inaccurate & Consistent
 Inaccurate & Inconsistent