Supplementary Materials

Cross-linguistic Influence on Intonation Acquisition: A Study on the Production of L2 Mandarin and L3 English Intonations by Uyghur Speakers

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A. Uyghur, Mandarin and English

Basic introduction of Uyghur

- the native language of Uyghur speakers
- a member of the Turkic branch of the Altaic language family
- a non-tonal language with predictable lexical stress

Comparison of prosodic systems

	Prominence				Prosodic structures					
Language	Lexical		Postlexical		Lexical		Postlexical		cal	Source
	tone	stress	head	edge	syll	foot	AP	ip	IP	
Uyghur		✓		✓	✓		✓	✓	✓	Major & Mayer (2019)
Mandarin	✓	✓	(✓)		✓	\checkmark		✓	✓	Jun (2005)
English		\checkmark	\checkmark		\checkmark	\checkmark		✓	✓	Jun (2005)

Note. There is a lack of consensus regarding the postlexical pitch accent in Mandarin, although certain studies have suggested a stress-driven pitch accent (Jun, 2005).

B. Theoretical framework

L2 Intonation Learning theory (LILt)

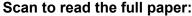
- Four dimensions for cross-linguistic comparison of intonation: (1) <u>systemic</u>: the inventory of pitch events such as pitch accent and boundary tones; (2) <u>frequency</u>: the frequency of phonological intonation pattern; (3) <u>realizational</u>: the phonetic implementation such as F0 range and mean F0; and (4) <u>semantic</u>: how the distribution of elements is associated with intonational meaning.
- The influence from L1 takes the form of assimilation or polarization in L2 production, and the cross-linguistic influence may occur in any dimension (Mennen, 2015, 2022).

In the current study

LILt is applicable in L3 intonation.









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C. More details of research design

Language background of Uyghur participants

Language	Age of learning	Years of study	Percentage of use (with families)	Percentage of use (on campus)
Uyghur	0	22 (20-24)	68.50%	32.25%
Chinese	7 (4-10)	14 (12-18)	27.50%	57.05%
English	16 (15-18)	5 (3-6)	5.00%	10.70%

Materials

Language	Sentence	No.	Sentence					
	S1		نادام naːdɛm Nadam 'Nadam watch	ناخشام ax∫am last night ned movie last n	کننو kino movie ight'	کۆرد <i>ی</i> kør-di watch-PST		
Uyghur	S2		ئايگۈل ajgyl Aygul 'Aygul just ma	ئەمدى emdi just de ramen'	لەغمەن Isrmsn meal	ئەتتى at-ti cook-PST		
	S3		نالتم alim Alim 'Alim washed	بۈگۈن bygyn today shoes today'	ئاباغ ajaq shoes	يۇيد <i>ى</i> ju-di wash-PST		
	S4		پولات polat Polat 'Polat bought	بۇلتۇر bultur last year a dictionary last	لۇغەت lurɛt dictionary year'	ئا <i>لدى</i> al-di buy-PST		
Language	Sentence No.	Tones	Sentence					
Mandarin	S1	T1	张斌 Zhang1Bin1 Zhang Bin 'Zhang Bin vis	今天 jin1tian1 today sited the compar	参观 can1guan1 visit ny today'	公司 gong1si1 company		
	S2	T2	吴梅 Wu2Mei2 Wu Mei 'Wu Mei will le	明年 ming2nian2 next year earn philosophy	研习 yan2xi2 learn next year'	哲学 zhe2xue2 philosophy		
	S3	Т3	李敏 Li3Min3 Li Min 'Li Min prepar	五点 wu3dian3 5 o'clock ed speech draft	整理 zheng3li3 prepare at 5 o'clock'	讲稿 jiang3gao3 speech draft		
	S4	T4	赵丽 Zhao4Li4 Zhao Li 'Zhao Li made	半夜 ban4ye4 midnight props at midni	制作 zhi4zuo4 make ght'	道具 dao4ju4 props		
Language	Sentence No.	Stress	Sentence					
English	S1 S2 S3	Initial Initial Final	Lara Mary Lamar	finished cancelled received	papers orders awards	yesterday lately tonight		
	S4	Final	Celine	repaired	guitar	today		

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