When two tongues meet Linguistic investigation of contact situations

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τη





What





Language contact:

Language contact: Part 3: drawing conclusions – big or small

The things we'd known for a long time...

[...] aer Graecum illud quidem, sed perceptum iam tamen usu a nostris, tritum est enim pro Latino.

The word *aer* is Greek, but has already been accepted in the usage of our people, and is in fact commonly used as Latin.

(Cicer., ND 2.91, 1st c. BCE)

ir 1. E)

The things we'd known for a long time...

[...] ἀπήγελλε δὲ αὐτὰ παχεία τῆ γλώττῃ καὶ ὡς Καππαδόκαις ξύνηθες, ξυγκρούων μἐν τὰ σύμφωνα τῶν στοιχείων συστέλλων δὲ τὰ μηκυνόμενα καὶ μηκύνων τὰ βραχέα. πολλοὶ μάγειρον πολυτελῆ ὄψα πονήρως ἀρτύοντα.

YPRU

[Pausanias, who was born in Caesarea] delivered his declamations with a heavy accent, as is the way with Cappadocians, making his consonants collide, shortening the long syllables, and lengthening the short ones. Hence he was commonly spoken of as a cook who spoiled expensive delicacies in the preparation.

Selen

(Phil., *VS* 2.ιγ, 3rd c. CE)



The things we'd known for a long time...

(Quint. Ins. Or., 1.5.68, 1c. CE)

[...] iunguntur autem [...] ex nostro et peregrino, ut biclinium [...] Words are formed by combining native and alien elements, e.g. bi- $\kappa\lambda$ iv-ium.



... became a focus of systematic inquiry 1950s: the borrowing metaphor under inspection

Haugen (1950); Weinreich (1953)

"the attempt by a speaker to reproduce in one language patterns which he has learned in another" (Haugen 1950:212)

"grammatical relations belonging to one language [that] occur in the speech of another language" (Weinreich 1979[1953]:30)

... became a focus of systematic inquiry loanwords

An intricate typology of loans (Haugen 1953, Muysken 1981, Wohlgemuth 2009)

- loanwords/loan-phrases (1), loanblends (2), loanshifts (3)
- (1) tinini! 'fuck off!' < Turkish *dinini!* '@#!\$'
- varušturd-a-u < Turkish karıştırdı 's/he mixed'</pre> (2) mix-VRBLZ-1SG 'I mix'
- ipno mu. < Turkish *uyku-m* irθin (3)0 came the sleep my 'l am sleepy.'

geldi. sleep-my came







... became a focus of systematic inquiry loanwords

- which can be fully integrated phonologically...
- illicit inital clusters in the original are resolved in Turkish
- (4) a. p[u]rasa 'leek' < Greek prasa
 - b. f[i]ren 'brake' < French frein
- [y] or [ø] in the originalTurkish are replaced in Pontic Greek
- (5) a. d[uː]ni 'wedding' < Turkish d[yː]n
 - b. [or]retmenena 'teacher (f)' < Turkish [ør]retmen

... became a focus of systematic inquiry loanwords and the phonological changes they may bring

...or not...

velar palatalization does not apply to words of Turkish origin in Greek of Phar. a. [t] erato 'horn' < Med. Greek keraton (6)b. [k^h]itapi 'book' < Turkish *kitap*

... became a focus of systematic inquiry loanwords and the phonological changes they may bring

...resulting in interesting phonological changes into the overall system.

 Armenian of Musadagh has /q/ on native words (e.g., *qənnil* 'find'), possibly after many Arabic words with *q* (e.g., *dæqiqæ* 'minute') (Vaux 1998)



... became a focus of systematic inquiry loanword phonology

et al. 2017)

 how loan-phonology sneaks in through borrowed vocabulary (van Coetsem 1988, Peperkamp and Dupoux 2003, Peperkamp 2005, Kang 2011 Andersson

... became a focus of systematic inquiry loanwords and the morphological changes they may bring

loanwords introduce interesting morphological material as well.

- Turkish reduplication in Arapgir Armenian
- (7) a. shehet 'good' ~ shep-shehet 'very good' b. čermak 'white' ~ čep-čermak 'snow white' c. sev 'black' ~ sep-sev 'pitch black'
- (8) a. ep-eyi 'superb' < Turkish ep-eyi b. *kip-kirmizi* 'blood red' < Turkish *kip-kirmizi*



... became a focus of systematic inquiry loanwords and the morphological changes they may bring

loanwords do introduce morphological material as well.

- Turkish affixes in Greek dialect of Pharasa
- b. alima-suz-i (9) a. ponu-suz-a pain-PRV-ADV oil-PRV-ADJ 'without pain' <ponus 'pain' 'without oil' < alima
- a. xaparsuz-i < Turkish haber-siz 'uninformed' (10)**news-**PRV b. xorantasuz-i < Turkish horanta-siz 'orphan' family-PRV



... became a focus of systematic inquiry loan morphology

Gardani 2008; 2021, Adamou 2012, Seifart 2015, among many)

loan-morphology abstracted from vocabulary (Weinreich 1953, Field 2002,

Hierarchies what is easy to go?

adoption of new consonants > adoption of new vowels

nouns, conjunctions > verbs > discourse markers > adjectives > interjections > adverbs > adpositions > numerals > pronouns > derivational affixes > inflectional affixes

(Matras 2007, also Muysken 1981, Haugen 1950)

(Matras 2009)





Lexical basis of structural change on the limits of change

Does language mixing through lexicon extend beyond morphology/phonology?

Lexical basis of structural change **Adj-N order in Turoyo**

Bagriacik & Eryilmaz (to appear):

u gawro jarixo (11)the man tall 'the tall man'

jakišikli (12)gawro U the handsome man 'the handsome man'

[N -Adj]

[Adj-N]



< Turkish yakışıklı 'handsome'

(also Cantone and MacSwan 2009)





Lexical basis of structural change **Differential Object Marking in Greek**

Bagriacik & Atlamaz (to appear):

(13) Aratizo an temirči-s. look.for.1SG an iron.monger-NOM 'I'm looking for an ironmonger' (a specific one or any ironmonger would do)'

(14) Aratizo ton temirči-Ø. look.for.1SG the iron.monger-ACC 'I'm looking for the ironmonger.'

[Definite NP]

[Indefinite NP]

Lexical basis of structural change **Differential Object Marking in Turkish**

Bagriacik & Atlamaz (to appear):

- (15) Bir demirci-Ø arıyorum. an iron.monger-NOM look.for.1SG 'I'm looking for an ironmonger' (any ironmonger would do)'
- (16) Bir demirci-yi arıyorum. an iron.monger-ACC look.for.1SG 'I'm looking for a specific ironmonger. (someone I know but you probably do not)'

[Non-specific NP]

[Specific NP]

Lexical basis of structural change Emergence of Differential Object Marking in Greek

Loss of morphological distinction between NOM ~ ACC in indefinite contexts and V+O idioms as loans.

(17) Pharasa (18) Turkish
 ftenu yolčis yolcu et do traveller.M traveller do
 'send off' 'send off'

Lexical basis of structural change P-stranding in Prince Edward Island French

King (2000):

- (19) Quelle heure qu'il a arrivé à?
 what time that-he has arrived at
 'What time did he arrive?'
- (20) Quoi ce-qu'il a parlé about?What that-he has talked about'What did he talk about?'

"borrowing a lexical item involves borrowing its syntactic properties, [which] has spread to [PEI French] prepositions in general" (King 2000:149).

Any other way? on the limits of change

Is there any evidence for structural convergence without resorting to lexicon?

Change without lexical items Phonology

Indirect evidence

- Many Greek dialects of Cappadocia lost interdentals:
- Misti (21)a. dodeka 'twelve', cf. Modern Greek ðoðeka b. [ç]eos 'God', cf. Modern Greek θeos



Change without lexical items Phonology

indirect evidence

Turkish dialect spoken in Cunda allows V.CCV syllabification

(23) aklima geldi Cunda: [a.klu.ma] to.my.mind it.came 'I remember it.'

ows V.CCV syllabification [u.ma] Standard: [ak.lu.ma]

Wo questions Phonology

Both scenarios underline the existence of

language (van Coetsem 1998).

L2 learners/non-dominant speakers who push-transfer from their L1/dominant

Structural change under contact

A change presupposes an emerging disturbing factor or a cause in the system and the causal force of language change lies in language acquisition.

Heterogeneity in the linguistic evidence, *however introduced*, is a prerequisite for language change.

(Yang 2000: 241; Walkden 2017 for a good overview).



Structural change under contact

Older group:



Younger group:



(Andersen 1973)



Scenarios



(Roberts 2021[2007])

PLD that contains significant quantity of tokens from a distinct system.



Direct contact

The younger group is exposed to two distinct sets of PLD

- if from birth, bilingual acquisition: 'cross-linguistic influence is part and parcel of bilingual regarded as unitary, not as two separate systems' (López to appear)
- Montrul 2016; Putnam and Sánchez 2013 a.o.)
 - result in a longer, more difficult search process for features.
- if in adulthood, L1 attrition under L2effects (Gürel2000, Tsimpli et al. 2004)

development' (van Dijk et al 2022), and 'linguistic competence of a bilingual speaker must be

• if sequentially, before the close off of the critical period, reduced input or intake (Polinsky 2015,

• Paradis' (1993:135) notion of interference: a larger number of items to choose from will naturally
Scenarios



→ Corpus_{alien} Galien -Corpus₂ Figure: Indirect contact

PLD that contains significant quantity of tokens from a distinct system.

(Roberts 2021[2007])



Indirect contact

The younger generation is exposed to the second language variety of the previous generation

• Under SL-agentivity, carry-over features can appear in the PLD, resulting in ambiguity & change (Sorace 2000, Guasti 2016:23-24, Winford 2003)

Summary

Heterogenity

- under reduced input/intake (Putnam and Sanchez 2013), which may result in Montrul 2002, Silva-Corvalán 1991, Tsimpli et al 2004), or
- under carry-over features from L1 to L2 in "imperfect" acquisition (Rothman and Slabakova 2018).
- situations (Aboh 2015, see also Winford 2003).

incomplete acquisition or attrition (Hakøansson 1995, Lambert and Freed 1982,

• L2-L1 cascade (DeGraff1996; this may be defining for most if not all 'ordinary' contact



Structural change due to contact and without lexicon should be omnipresent.

Structural change under contact

[e]ach language is a mixture of language dialect [...]

(Schuchardt 1884, cited in Morpurgo Dvies 1998: 287-288, also Whitney 1881)

[e]ach language is a mixture of languages. There is no such thing as the coherent

Structural change under contact

"[...] anything goes, including structural borrowing that results in major typological changes in the borrowing language."

As long as macro-level factors (e.g., prestige, community bilingualism) and language-internal factors (system compatibility) are in order.

(Thomason 2001:71)



Structural change under contact **Studies on contact-induced syntactic change**

and Mougeon 2005, Matras and Sakel 2007; Johanson 1992, 2002)

(24) nominal constituents > copular predications > verbal predications (25) modality > (phasal) aspect > future (> other tenses)

- Hierarchies of pattern transmission (Weinreich 1953, Heath1978, Treffers-Daller

 - (Stolz and Stolz 1996, Ross 2001, Matras 1998 et seq)



Structural change under contact skepticism

not a single drop of foreign blood has entered into the organic system of the English language.

syntactic borrowing is impossible or close to it.

Syntax is the limit.

- [i]t may be useful to recognize Celtic, Norman, Greek and Latin in the English vocabulary, but
 - (Müller 1862:68, cited in Mopurgo Davies 1998:198; also Meillet 1921)
 - (Lefebvre 1985, Prince 1988, Sankoff 2001)

(Silva-Corvalán 2008)









Structural change under contact skepticism

[...] the case for direct borrowing of structure [...] has yet to be convincingly made.

The extent to which [syntactic change due to contact] occurs and the constraints on the process are a matter of some controversy.

[w]hen the inference of contact-induced change is pursued systematically, it becomes increasingly difficult to justify.

(Winford 2003:64)

(Muysken 2010:720)

(Poplack and Levey 2010:409)













"The peculiar Turkish word order invaded Greek"

(Dawkins 1916, 198; Andriotis 1948, Anastasiadis 1976; Thomason and Kaufman 1988, Winford 2003:83)

 $OV \rightarrow VO$





- Greek of Pharasa (26)
 - pseka piesin ton pandiko. a. the cat caught the mouse 'The cat caught the mouse.'
 - pseka ton pandiko piesin. b. I the cat the mouse caught 'The cat caught the mouse.'

[VO]

[OV]

Turkish (27)

Kedi fareyi yakaladı. cat mouse caught 'The cat caught the mouse.'

[OV]



Corpus search (1862-1946; ~100000w)

	(S)V(S)O(S)	(S)O(S)V(S)
%	87,4	12,6

- 1. Out-of-blue utterances (e.g., introductory clauses to narratives),
- 2. Generic statements, and
- 3. Answers to all-focus questions

all show that there is alternation between V(S)O(43%) and (S)VO(57%).

V + O combinations from Turkish

(28) Greek of Pharasa [VO] a. dhitu ti give ear 'listen'

b. * ti-dhitu

(29) Turkish [OV] a. * kulak vergive ear 'listen'

b. * ver-kulak

V + O combinations from Turkish

[VO] Greek of Pharasa (28)a. dhitu ti give ear 'listen'

> * ti-dhitu b.

 $[\mathsf{OV}]$ Turkish (29)a. * kulak vergive ear 'listen'

b. * ver-kulak

Why is the claim then?

Weak copula in predicational structures

(30) Pharasa
a. i Nerkiza xekimi = ni. (OV, 79%)
Nerkiza doctor is
'Nerkiza is a doctor.'

b. i Nerkiza ini xekimi. (VO, 21%)
Nerkiza is doctor

Weak copula in predicational structures

(30) Pharasa a. i Nerkiza xekimi = ni. (OV, 79%) Nerkiza doctor is 'Nerkiza is a doctor.'

b. i Nerkiza ini xekimi. (VO, 21%)
Nerkiza is doctor

Same results in Pontic, Romeyka and Cappadocian

to have a strict enclisis system (Sitaridou 2022).

e.g., pronouns:

(31) idhin =mi (32) * mi =idhin saw.3SG CL.1SG CL.1SG= saw.3SG 'she saw me.'

(33) (mena) idhin (mena) 1SG saw.3SG 1SG 'she saw me.'

Phonological reduction of copulas render them as clitics and Asia Minor Greek is known

Bare NPs

(33) Pharasa

 a. (In the winter), čočuxa ftenkani i nomati.
 (OV, 66%)
 children made the people
 'In the winter they would make babies.'

b. paradha ču xame, pikame takasi.
money not have.1PL did.1PL barter
'We did not have money, we would barter.'

Similar results in Romeyka

(VO, 34%)

Topicalization in Greek (also in Med. Greek)

(34) A: — Phos aghorase palto? 'Who bought a coat?'

B:- [Palto]_{TOP} aghorase o Kostas.
coat bought the Kostas
'Kostas bought a coat.'

Property	Modern Greek	
[TOPIC [COMMENT]]	yes	
old information	yes	
contrastive information	yes	

(Georgiou 2023)

Dialect speakers facing ambiguous input: OV_{TOPIC} in Greek OV_{NEUTRAL} in Turkish:

(34) [Palto]_{TOP} aghorase. (Greek) bought coat 'He bought a coat.'

(35) [Palto]NEUT aldı. (Turkish) coat bought 'He bought a coat.'

Property	Modern Greek	Turkish	
[TOPIC [COMMENT]]	yes	y/n	
old information	yes	y/n	
contrastive information	yes	y/n	

Dialect speakers facing ambiguous input: OV_{TOPIC} in Greek OV_{NEUTRAL} in Turkish:

(34) [Palto]_{TOP} aghorase. bought coat 'He bought a coat.'

Property	Modern Greek	Turkish	Dialect	
[TOPIC [COMMENT]]	yes	y/n	y/n	
old information yes		y/n	yes	
contrastive information	yes	y/n	y/n	

Features relevant to syntax-discourse interface (focus/topic) are problematic for L2/ heritage learners (Sorace 2005, 2011; Sorace & Fliaci 2006, Belletti et al. 2007, Montrul 2015)

Such formal feature in the target language, if not instantiated in the other language will cause learnability problems.

(Tsimpli 2007, Tsimpli & Mastropavlou 2007:215)

Changes in support P-stranding in Ottawa Hull French

Poplack & Levey (2010), reporting Zentz (2006): P-stranding (36) is a structural extension of orphaning (37):

(36) Comme le gars que je sors avec...like the guy that I go.out with'Like the guy I'm going out with...

(37) ... il faut tu payes pour.it have you pay for'(if you want it before,) you have to pay for (it).'

Changes in support Loss of ergativity in Kurdish

Dialect	non-past	past
Standard	DIR-OBL	OBL-DIR
Heritage	DIR-OBL	OBL-OBL

Split ergativity in Southwest Kurdish (Standard) and its loss in younger generations.

Changes in support **Non-past: standard & heritage**

(38) Ez dıkevım. I.DIR fall (intransitive) 'I fall.'

(39) Ez dıwunım. te I.DIR you.OBL see 'I see you.'

(transitive)

dıwuni. (40) Ti mı you.DIR I.OBL see 'You see me.'

(transitive)





Changes in support **Past: standard**

- (41) Ez ketım. I.DIR fell 'I fell.'
- (42) Mi diyi. I.OBL you.DIR saw 'I saw you.'

(intransitive)

(transitive)

(43) Te ez dim. you.OBL I.DIR saw 'You saw me.'

(transitive)

	Standard		Heritage
	NPST	PST	NPST
SUBJ	DIR	OBL	DIR
OBJ	OBL	DIR	OBL

Changes in support **Past: heritage**

(44) Ez ketım. I.DIR fell 'I fell.'

(45) Mi di. te I.OBL you.OBL saw 'I saw you.'

(transitive)

(46) Te di. mı you.OBL I.OBL saw 'You saw me.'

(transitive)

	Standard		Heri	tage
	NPST	PST	NPST	PST
SUBJ	DIR	OBL	DIR	OBL
OBJ	OBL	DIR	OBL	OBL

(intransitive)

Changes in support Past: standard

Ergativity in certain dialects of Kurmanji is in decay due to contact with Armenian and Turkish (see Gundogdu 2017).

Changes in support **Dependent Case (Marantz 1991)**

(47) Dependent case rules (a) 1 If NP1 c-commands NP2, assign NP1 ergative

Unaccusative & Unergative ones (sole-arguments): No dependent case

- (upward case).
- (b) If NP1 c-commands NP2, assign NP2 accusative (downward case).

Changes in support **Dependent Case (Marantz 1991)**

Alignment	Case Pattern	Direction	DCC Rule
Accusative	NOM-ACC/ DIR-OBL		downward
Ergative	ERG-ABS/ OBL-DIR		upward
Tripartite	ERG-ACC/ OBL-OBL		both
Unmarked	NOM-NOM/ DIR-DIR		neither



Changes in support How is a split system learned?

Split ergative system, the following should be learnt:

(48) Learning Task for Standard Kurdish (split ergativity) a. Learn downward dependent case rule b. Learn the upward dependent case rule c. Learn the context for the downward dependent case rule d. Learn the context for the upward dependent case rule

The acquisition path for learning case patterns are guided by the DCT. For a

(Accusative) (Ergative) (Elsewhere) (Past)

Changes in support How is a split system learned?

Under the null hypothesis that the rules can be learned simultaneously or sequentially, the acquisition tasks leads to a variety of learning paths with various checkpoints, i.e., accepted hypothesis state. When the hypothesis is accepted, a checkpoint is created and it is maintained until it is revised.

It is essentially the same learning algorithm proposed in Biberauer et al 2014, Roberts 2021[2007])

Changes in support **2-checkpoint paths**

learned simultaneously with their context specification.

	checkpoint	accepted	non-past	past
Path 1	1	$\downarrow C$	DIR-OBL	DIR-DIR
	2	\uparrow_{C}	DIR-OBL	OBL-DIR
Path 2	1 2	\uparrow_{C}	DIR - DIR	OBL-DIR OBL-DIR
	2	$\downarrow C$	DIR-OBL	OBL-D

In a 2-check point path, each of the dependent case rules (down or up) are

Table: 2-checkpoint paths.

Changes in support **Predictions of the 2-checkpoint paths**

The intermediary checkpoints are also important.

some point in monolingual data:

of DIR-DIR.

Kurdish.

- In both paths, DIR-DIR show divergent attainment, which should be reflected at
 - The longitudinal study of Mahalingappa (2009), however, contains, 0 tokens
- 2-checkpoint path further fails to predict OBL-OBL, which we see in Heritage



Changes in support 3-checkpoint paths

In a 3-checkpoint path, one of the DC rules is learnt in two sequential steps:1. First, a context-free variant is learnt.2. Its context specification is made.The other DC rule is learnt along with its context specification.
Changes in support		
3-checkpoint paths	c] <u>Path 3</u>	
	Path 4	
	Path 5	
	<u>Path 6</u>	

heckpoint	accepted	non-past	past
1	\downarrow	DIR-OBL	DIR-OBL
2	\uparrow_{C}	DIR-OBL	OBL-OBL
3	$\downarrow C$	DIR-OBL	OBL-DIR
1	\uparrow	OBL-DIR	OBL-DIR
2	$\downarrow C$	OBL-OBL	OBL-DIR
3	\uparrow_{C}	DIR-OBL	OBL-DIR
1	$\downarrow C$	DIR-OBL	DIR-DIR
2	\uparrow	OBL-OBL	OBL-DIR
3	\uparrow_{C}	DIR-OBL	OBL-DIR
1	\uparrow_{C}	DIR-DIR	OBL-DIR
2	\downarrow	DIR-OBL	OBL-OBL
3	$\downarrow C$	DIR-OBL	OBL-DIR

Table: 3-checkpoint paths.

- variety.
- contexts in acquisition, but
- speakers.
- shifted to a completely accusative system as their final attainment state.

• Paths 4–5 generate OBL-OBL in non-past context – a pattern that does not define the heritage

Mahalingapa (2009) shows with monolingual data that OBL-OBL never appears in non-past

DIR-DIR in non-past: 20/130, around age 3, suggesting **Path 6** is what is followed by the

DIR-OBL in past: variety of Batman, which indicates that through Path 3, these speakers have





checkpoint
Path 3 1
2
3
Path 4 1
2
3
Path 5 1
2
3
Path 6 1
2
3
Table:



-checkpoint paths.

both the DC rules and the context rules are learned sequentially:

- - five overgenerate OBL-OBL in the non-past contexts.
 - three overgenerate OBL-DIR in non-past contexts,

• six possible paths, all converging with the ultimate standard grammar but one undergenerates by not predicting the OBL-OBL in past tense clauses.

Upward dependent case is never learnt in two steps because it must make reference to a smaller subset (past only) as opposed to downward dependent case, which is operant on present, subjunctive, conditional and imperative.

Why is the convergence problem?

• Problem with the nature of transition from checkpoint 2 to 3: this requires revision of an earlier learnt underspecified rule: Going from an underspecified rule to one that makes reference to elsewhere condition requires production, hypothesis and error-driven learning: The learner must realize that the grammar they acquired overgenerates (OBL objects in past tense clauses) and seek hypotheses to fix the overgeneralization problem.

 Heritage speakers have a reduced rate of production, which prevents them from realizing the overgeneration problem caused by the underspecified downward dependent case rule.

- The effect of Turkish?

• There is no rule copying from Turkish: Kurmanji already has the accusative pattern.





Summary food for skeptics

fossilization in the learning path etc.)

Lass' (1997:209): "an endogenous explanation of a phenomenon is more parsimonious, because endogenous changes must occur in any case."

when Language A has two or more equally possible options one of which overlaps with an option also present in Language B, the speakers will opt for the most frequent option in the input (in contact situations, Johanson 2002, Silva-Corvalán 1994, Alferink 20915, in heritage speakers, Moro 2016, in simultaneous bilingual acquisition, Muller (2000), Nicolaidis (2006) et seq.

Contact reinforces an existing syntactic possibility (Sitaridou 2009,2014:52, also DeGraff 2005, Guardiano et al 2016)

Changes that are LARGELY internal (analogical levelling, underspecification of formal features,



Summary Is it possible to argue against it?

Dichronic studies involve a look at the meso-level aggregatation of change (Muysken 2007: 268), a time depth of min 200 years, where we rely on comparative data & historical sources, which are however imperfect: proving that the subset of strings that contribute to constituting a trigger for value Y of parameter a was not present is difficult, Thomason 2001:93-94)

variability as inherent characteristic of all spoken languages (Poplack and Levey 2010).



Further changes

Do we need to see complete restructuring of a system to be convinced that bilingual minds are capable of exploiting the same repertoire?

More changes Turoyo

Purposelessness 'reflexive'

(49) A: -man kosaymat? what are you doing?

- B: ko-shota-no čay. PROG-drink.NPST-1SG tea 'I am drinking tea.'
- B: -ko-shota-no=li čay. PROG-drink.NPST-1SG=to.me tea lit: 'I am drinking to myself tea (because I have nothing else to do).'

More changes Kurdish

Purposelessness 'reflexive'

- (50) A: what are you doing?
 - B: Ez rudını-m-e. I sitting.down-1SG-COP 'I am sitting down.'
 - B: Ez xa ra rudını-m-e. self to sitting.down-1SG-COP. 'I am just sitting down (because I have nothing else to do).'

Nore changes Greek of Pontus

Contrastive verb doubling

- (51) Ta xortaræ eghrasa ama kser-athio u kser-enane. the grass sunned.1SG but dry-NOM not dry-PST.3PL 'I sunned the grass but they did not dry (contrary to expected).'
- (52) almegh-ma uč eporena n' almegh-a. milk-NOM not could.1sg prt milk-pst.1sg 'I could not milk (the cows, contrary to the expectation).'

More changes Turkish

Contrastive verb doubling

(53) A: - What happened to her? *(Did she have a car accident?)

B: – No, düş-me düş-tü. fall-NOM fall-PST.3SG 'No, she fell down.'

(54) Ev-i al-ma al-dı-m, *(kiralamadım).
house-acc buy-NOM buy-PST-1SG I.am.not.renting.it
'I bought the house, I am not renting it.'

(Sevgi 2021)

More changes Laz

Embedded nominalizations (Demirok & Ozturk to appear)

(55) [Bere-**şi** didi kva o-t'ax-u-mu**şi**] mapxasinu. child-GEN big stone NOM-break-NOM-POS.3SG I.was.surprised 'I was surprised that the child broke the big stone.'

(56) Xordza-k [sk'ani didi kva o-t'ax-u-sk'ani] gorums. woman-ERG your big stone NOM-break-NOM-POS.2SG wants 'The woman wants you to break the big stone.'

More changes Turkish

Embedded nominalizations (Demirok & Ozturk to appear)

(57) [çocuğ-un taşı kır-ma-sı] beni şaşırttı. child-GEN stone break-NOM-POS.3SG I.was.surprised 'I was surprised that the child broke the big stone.'

(58) Kadın [sen-in taşı kır-ma-n]-ı istiyor. woman you-GEN stone break-NOM-POS.2SG wants 'The woman wants you to break the big stone.'



Such examples abound in the contact literature and well-documented in bilingual studies.

Conclusions

- grammar.
- maintenance in bilingual minds, they simply function as metaphors.
- input they've been exposed to is complex/complex.



1. The evidence accumulated points to one direction: contact, when evoked with all its processes, i.e., bilingual acquisition, SLA, attrition etc., impacts all levels of

2. Notions as borrowing, transfer etc. may seem to work when we know what we talk about but when we consider the large spectrum of processes and language

3. The linguistic repertoire such minds have is inherently complex/mixed because the

4. Their creativity in such minds is certainly limited by constraints specific to the repertoire itself but the ultimate sedimentation depends on the ecology in which they survive.



Thank you!

