Why epenthesis can help us answer the question of where phonology comes from

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Stony Brook Workshop on Epenthesis September 19, 2021

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¹ There are a number of different kinds of epenthesis, and "epenthesis" means different things to different people ² Can phonology be reliably differentiated from phonetics?















Data vs. Evidence

The Linguist

Morley, R. L. (2015). Deletion or epenthesis? On the falsifiability of phonological universals. Lingua, 154, 1-26.













Aninines Comment	ID 100											
Axininca Campa: Arawa	can [Payne 198	51]	Othe	r								
t insertion			Suffra				→[int] ^h ikakoto]					
Deflexive		verbai	Sumixes			100	Repetitive	"he will noddle	n 108	cf. /no+t ^h oŋk+its ^h i+a	"I finished it alro (in	p.44 p.187
/ir+oti+ <u>a</u> /→[hotita]	"he got in (put himself in)"	p.126	/pi+N+koma+ima+i/→	"(you) ready to paddle"	p.123	3	/ir+N+koma+ <u>aa</u> +i/→ [iŋkomataati]	again"	p.100	+ro/→[notʰoŋkitsʰitaβo]	addition)"	p.200 -201
of the I Thild I at a	"he cut	p.126	of (oi + N + Thile + imo + i/	"(you) ready	p.123	3	cf. /pok+aa+i/→[pokaat]i]	"came again"	p.43	'Recently'		
(ifbika)	himself**		-[nintfbil:imati]	to cut"						/iʃaaβi+ <u>iti</u> +ini/→	"(the sun)	(142) p.180
Perfect			→[pintj ikinati] Non-Futur	r		-				[it͡]aaβiitiini]	getting 10%	p.191
$/no+na+ak+i+ro/\rightarrow$	"I have carried	p.109	/no+pisi+i/ → [nopisitsi]	"I swept"	p.122	2						p.208
[nonatakiro]	her"				1		Future	"he will	n 108	Reflexive F	uture "he will	n 120
cf. /ir+tjbik+ak+i+ro/	"he has cut	p.234	cf. /ir+tjbik+i+ro/	"he cut it"	p.116	5	/ir+N+koma+i/	paddle"	p.108	/ir+N+kisi+ <u>ia</u> /→	comb	p.129
→[it] ^h ikakiro]	her"		→[it] ^h ikiro]				→[iŋkomati]		107	[iŋkisit]a]	himself"	100
Progressiv	'e		Adverbia	lizer			cf. $/ir + N + t f^h iki + i/$	"he will cut"	p.108	cf. /ir+N+t∫ ^h ik+ia/→	"he will cut himself"	p.129
/ir +oti+ <u>ati</u> +a/→	"he is getting	p.31	/t͡sʰirinii+iti+ <u>ini</u> /→	"at night"	(13)	H	→[int] ^b iki]			[int] ^h itʃa]		
[hotitat]a]	in"		[tshiriniitiini]		p.177	atus	Infinitive	"to paddla"	n 55		"he will hear	n 129
					p.198	8	/koma+ <u>aantsu</u> /→	to paulie	P	/ir+N+Kimi+ia/→	himself"	P
cf. /ir+tf ^h ik+ats+i/→	"he is cutting"	p.233			pare	-	[Komataants'']	Man and "	n 55	[iŋkimija]		
[iffbikiafsi]							ci. /tj=ik + aants=i/→	to cut	p			
Departur	2		Velar glide d	leletion		_	[t]"ikaants"i] Receiving			Nominal St	uffixer	
/ir+impoi+its ^h i+ <u>an</u> +ak	"he followed	p.44	/ir+auq+ak+i+ro/→	"he has	p.116	5	/ir+kant+Bi+aB+am+	"he said to the	p.47	Diminut	live	
+a/→[himpoitsbitanaka]	along behind, in addition, departing"	p.191 p.209	[haakiro]	taken it"		Ŧ	a+ri/→[ikantaβitaβaari]	one arriving"	p.188 p.203	/hito + $iriki$ / → [hitoiriki]	"little spiders"	p.110
cf. /ir+kant+aβ+ak+ au	"they said to	p.41	cf. /ir+au+aij+ro+ni/	"they took	p.116	6 atus	cf. $/no+p+a\beta+ak+i+$	"I will see"	(85) p.179	/sampaa + <u>iriki</u> /→	"little balsas"	p.141
$+aij + an + ak + a + ni/\rightarrow$	one another,	p.188 p.204	→[haujaijironi]	it"			ri+ta/→[noŋaaβakiriita]		p.189	[sampairiki]	Guinia	
[ikantaßakaiianakani]	departing								p.205 p.223			
Moda			l Plural				Resolved			'Drink'		
/ir+N+pisi+aij+i+ni/	"they will sweep"	p.150	/ir+N+pisi+aij+i+ni/	"they will sweep"	p.150	Dele	/ir+aa+ <u>au</u> +i/→[aatai]	"he will go back"	p.46	/siŋki + <u>a</u> / → [sint͡ja]	"corn drink"	p.128
of (in 1 N 1 This 1 of 1 i and 1	"they will cot"	p.150	⊸լոոթայույ	I	I	- tion	cf. /ir + kant + βi + $a\beta$ + au	ne said to the one arriving"	p.+/	/kimi + <u>a</u> / → [kimija]	squash drink"	p.128
-fiatbikaiiai]	-,	1				1	+a+ri/→[ikantaβitaβaari]	-		V 1 107	ID C	
Reduplicative /			CVCV (emplate)				Passive			Verbal/Nomina	ai Prefixes	
/na+RED+Bai+ak+i/	"he has	p.143	/aasi+RED+Bai+ak±i/→	"he has	p.144	4 	/ir+ii+ai+i+ri/→	"that which is	p.40	/no+ir+i/→[niri]	"I will	p.78
a [notonotoRoitaki]	continued to		faari aarifaitaki]	continued to	Ľ	Hat	[hiitaitsiri]	named"	p.196 p.216		drink"	1
- (minimulpaitaki)	carry more and more"		funn multimutil	meet more and more"		22	cf /ir+ft ^h ik+ai+ak+i+	"it was cut"	p.40	cf /no+saik+i/→[nosaiki]	"I will sit"	p.78
					1		ro/-=[if[bikeitekim]			con , cos i suna i a, i (nosaiari)		Ľ
Dative	¹⁰ ha mill maddla	- 108	Distributiv	e "he fellemed	- 44	-1	Purpose			2 nd person sins	rular	1
/ir+N+koma+ <u>ako</u> +i/→	for"	p.108	$/ir + impoi + its^hi + an + ak$	along	p.44 p.191	Dek	/no+ojaa+asi+a+ri/→	"I followed	p.43	/pi+iit ^h oŋki+i/→	"you will	p.78
[iŋkomatakoti]	101 111	100	+a/→ [himpoitsʰitanaka]	behind, in	p.209	e lioi	[noiaatasitari]	(for the	p.193 p.212	[piit ^h onkiti]	climb"	1
cf. $/ir + N + tf^hik + ako + i/$	"he will cut	p.108		addition,	1	-	,	purpose of	P	(I)	1	1

"Non-minimal" consonant epenthesis

Seg	Language	Seg	Language
t	Ajyíninka Apurucayali, Maori, Odawa Ojibwa, French, Amharic, Plains Cree, Maru, Finnish, Korean, Kodava	j	<u>Turkish</u> , <u>Uyghur</u> , <u>Greenlandic</u> , various Indic languages, <u>Arabic</u> , Slavic, <u>Tamil, Kodava</u>
k	Maru, <u>Kodava</u>	h	Ayutla Mixtec, Chipewyan, Huariapano, Slave (Bear Lake, Hare), Tigre, Tucanoan, Yagua,Yucatec Maya, Huaripano, Onondaga
g	Mongolian; Buryat	w	Abajero Guajiro, <u>Greenlandic</u> , <u>Arabic,</u> <u>Chamicuro, Tamil</u>
r	English, German, <u>Uyghur</u> , Zaraitzu Basque, Seville Spanish, Anejom, Japanese, <u>Southern Tati</u>	?	Chadic, <u>Cupeno, Larike, Misantla Totonac,</u> Mohawk, <u>Tsishaath Nootka, Hawaiian, Arabic,</u> <u>Selayarese</u> , German, <u>Ilokano</u> , Czech, Kisar, <u>Malay</u> , Koryak, Indonesian, <u>Gokana</u> , English, Konni,Tunica, <u>Tubatulabal</u> , <u>Nancowry, Tamil</u>
n	Korean, Greek, Dutch, German dialects, Sanskrit, Murut, Tunica	х	Land Dayak
1	Bristol English, Midlands American English, Motu	ſ	Basque dialects
v	<u>Marathi</u>	3	Cretan and Mani Greek, Basque dialects
b	Basque dialects	ŋ	Buginese
s/z	French, Land Dayak, Dominican Spanish	Ν	Inuktitut, East Greenlandic, Uradhi, Kaingang







The Learner Diachronic

Morley, R. L. (2012). The emergence of epenthesis: An incremental model of grammar change. *Language Dynamics and Change*, *2*(1), 59-97.

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Data vs. Evidence

The Learner Synchronic

Morley, R. L. (2018). Is phonological consonant epenthesis possible? A series of artificial grammar learning experiments. *Phonology*, *35*(4), 649-688.

















































