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On the external relations of Purepecha : an investigation into classification, contact and patterns of word formation

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Appendix A: Belmar's (1910) list of Otomanguean cognates with Purepecha

Purepecha	Cuicateco	Amuzgo	Popoloca	Trique	English
akshkua	nagaachi	tsinski		degachi	wing
akuitsee		ketzu			snake
andumukua		dahnu			bile
angatapu	yaan	tzounkua	daka		tree
antzikuni		diotzkado			
ashuni	chenu	tsondeki			deer
atsimu	inchiati	tsuukechi,	yetsine		clay, mud
chetzkua		tsaas			tail
ehtserukua		sta			forehead
erakata	yaku				high, tall
etzi		dateya			water
etzkuni		tsukuana			to set alight
handaretayarani	kanda				to put [sth] against/next to
harateni	duba	dateyu			to pierce
hikuru		kehnu			owl
huuataro	kueti				mountain
ikichanu	ngakinu				to be
ikuiuani		nguatibi			nauseous
iski	tika				to get angry
itzukua		ndatzu			like this
itzutz		tsekin	chu		milk
kahratani	ndaka	deka	dahu	nakaha	squash, gourd
kakuche	kuti				to sweep
kamakuni	kuinu	dikuina	hua		jar, jug
kanihtakua	taa				to end, finish
kanikukua	ngundi				handle
karahpeni	kanchee				arch, bow
karichani	kan	nakokan			to trick, fool
karinga	kuiku				to be thirsty
karisi		tseka			hunger
keni	kaa	gowa			dry
kitihkuni	tingine	getinna			to climb, go up
kuahtha		wa(gua)			to wipe
kuaratzeni		nindeko	taritzinga		house
kuatani	kunundai	dekena			to fall
kuatzini	kanda	gatei	tsuhua		to watch
kui		kesa	kundua		to empty
kuitse	kuu	ketzu	kunyee		one's stomach
kunantani	kunditu	tokona			bird
					snake
					to bend over

kurinda	tundu				bread
kurini	nguichi				to burn (intr)
kurrungekua	kianu				shirt
kurucha	yaka	ketska		kuchee	fish
kushareti	ku	kunri			?
kusharetu		tzasku			woman
kutsi					moon
kutsikua		tsuanki		dantsua	ear
kutsiti		tsuhu		kuchia	hen
kutzari	ngubndubi	tzutei	yise	yotruu	sand
kuuimi	kiadu	gatzo			to sleep
kuyame	kunuyuni	tzuku			pig, animal
mikani	nangadi	chumi			to close, shut
mitztu		ketienia	kumistu		cat
mukutzatani			dantzebgui,		to pull up,
			dantzengui		uproot
pakanguhpeni	kangunda	diketia			to push
patamu	kuatuu	dahana			to chew
patsirani		stsitsina			
piuakuarenii	kuai		kueee		to buy
shanaku		ketsu			lizard
shangarani	kunuyuni	goka			to walk
shanu	chanu	tsukunde			wild boar
shapitu	kusrhunda				prawn
shengua	nguua	tesoshiu, tesokoshiu			cherry
shurata	tsuma		shishia		cotton
sikuame	chingatu	tzakandua			witch, wizard
sikuapu		tsiunkui			spider
sini		tsinon			tooth
sirauata		tsiunkui			smoke
siriku	iku				ant
situri		tsiya			tripe, intestines
tareni	kundu	gata			to work the land
tariyata		ndie	trindu		air
tatzikua	natai	mitzou			altar
tauas		ysou	tuhuana		liver
temben	nidichi		tee		ten
tiripani	tundiku	tsindskete			to stick
tsarakua		tsue			rush mat
tsihnereti	tsan		kushii		male
tsikanarini	ndikuatu	dokutienia			to fold
tskapu		tsoho	shru		rock, stone
tuhuatani		guhundandio		tenhidata	to spit
turiri	ndukia	tchuu, nton			ember, coal
tziuireni		tseka			pine, pine tree
undahpeni	nditan	getitia			to attack
utukshkuchunda	itidetu	tichinta			snail
vihtsiri		tsoo			flea

vingaringa	nguaku		to	cover, wrap
virutzi		tsishki		skull
yauani	yakua	ndukua		poor
yuchani	kundamba	goke		to enter
yurekua	iku			flea

Appendix B: Liedtke's (1997) list of Purepecha-Quechua (Q)-Aymara (A) cognates

Purepecha	SPC Tarma Q	Ayacucho Q	Huaylas Q	Cuzco Q	Apurimac Q	Imbabura Q
caka-caka-	čaqa					
ra-nto						
čar-a		čall-u (lit. 'to crack, shatter; cracked, shattered of small or thin things)	call-u (lit. 'to shatter') call-u (to break')		čhall-u	
ciki-		čik-lli- ('to sprout after having been cut')				
cir-a		čir-i (cold, be cold; make cold (weather), feel cold, feel a chill)				
chir-a, chir-i (to coagulate, congeal), chiri-chiri- ngari- (to tremble all over as if from chill)		čir-ya (become cold, freeze with fright)		čir-ya- (become cold, freeze with fright)		čiri ('cold; alpa highland')
čur-i-ngari	čuru (ice, be congeal ed, to freeze)		curu- (to freeze, Ancash)			

cur-a, cur-	čull-i	čull-i
e, cor-a,	(cold,	(cold,
chor-e;	catarrh);	catarrh)
cure-n-	čull-u (to	
cure-ru	melt),	
	čullu-llu-	
	llu (to	
	give off	
	water in	
	various	
	spots, to	
	run (of	
	cores))	
čut-i- (čot-	čutu (shrt)	
o- 'to lack a		
point or		
normal		
prominenc		
e')		
čupí-ri		
tiri-tiri-ndi,	tiri	
tiri-pu-ra	(yellow	
(to ripn, of)	
maize),		
tiri-pu		
(yellow		
cabbage),		
tiri-pe-ti		
(gold), tir-		
u-ngari		
(yellow of		
face)		
tir-i-ma	tir-a-	t'ir-a
	(to pull	(pull out
	out)	with the
		root)
tis-i-; tisi-	tis-a (to	
me (to be	comb	
bearded),	wool)	
tisi-me-		
kwa		
(beard),		
tisi-ru-kwa		
(nostril		
hair), tisi-		
tisi-ra-s		
(hairy,		
woolly)		

tuku-	tuku- (also come to an end, be finished); tuku-q (ending, finale)	
tukuri, tukuru Uhu	tuku (kind of large owl)	tukuru
thuru-me; thuru-me- nte-ni (puddle, dirty place), thuru-me- not (spongy place)		t'uru (clay, mud, dirt)
ti-, -ndi- (ra)-	ti (body aperture)	muki-ti (fist)
phaka-a-	paka- (also treasur e, hidden money)	paka
phuku-	puq-ri (be overrip e)	puqu- (also mature); puqu-y (maturatio n, rainy season), puquy- puquy (well- matured, robust)
phir-(i-)	pil-qu (to curl oneself up, to coil up)	phiru-ru (whorl)

pis-pis-a-		pis-i- (to diminish, run out);			
ngari		pisi-pa- (to tire), pisi-pay (very tired)			
pure-	puri-š (gadab out, ambula tory); puri- kuna (road, path)	puri- (to walk, travel, wal k through, wander, roam)	puri- (also Ancash 'to run')		
puru-a-		pull-pull- ya (make the sound of boiling)			
puru-	puru (gourd, calabas h)	puru, poro (gourd), ispay puru (bladder), puru-puru (grnadilla) , pula (typ of gourd dish)	puru (also Ancash, type of calabash vessel)	poro (gourd mate, vase made of a type of calabash)	išpa puru (bladder)
ka	kara-h-pi- ngari; kara- h-pi-ni (become inflamd, as of a boil)	ka-	k'ara (to feel or cause burning pain), k'ara-q (burning , painful, sharp, biting)		
kaka-, kaka-ta (to break fallow soil with a plough)	kaka- (to cut open the throat of a freshly killed				

hen)

kar-a-ce-ti		kari, qari (be tired)
karo-hpa-		
karu- (aru- 'to divide, partition)	qaru- (of utensils)	
kaca-	qača (dirty, sloppy, scabby, messy)	
kac-a-	kac-u- (also to chew)	khač-u (also Collao, to eat, chew semidrie d fruits)
kit-i-		qhit-u-
khunču-	uñču- (to contract the limbs, squat awkwardl y)	
kuru-	kuru- (to wind up, as of thread or yarn), kuru-ra (wind into a ball), kuru-r (ball of wool)	
kuru-hku	quru (clipped, with the end cut off)	

kur-u-kwa-	kur-pa	kur-pa		
ro	(fallow	(mud ball,		
	ed	lump of		
	earth)	earth)		
kuna-kwa		kun-ka		
(also kun-		(also		
a- 'to		neck)		
swallow')				
kutu-	qutu	qutu	q'oto	kutu
	(tumou	(goitre)	(swellin	(Adam's
	r in the		g in the	apple)
	neck;		neck,	
	pile,		goitre,	
	heap,		adenom	
	also		a, bird	
	qutu- to		goitre)	
	pile up)			
kutu-		kutu (to		
		cut off at		
		th base),		
		kutu- (also		
		to shorten		
		by		
		cutting)		
nin-i-		nin-a-		
		(fire,		
		flame)		
sir-i-ku-ni		sir-a-	sir-a-	
sipi-		supi- to		
		fart		
šu-		susu-n		
		(unripe, at		
		preripe		
		stage, be		
		picked to		
		ripen at		
		home)		
šuku-	šuku-	suku- (to		
	pa	cover),		
	(hood),	suka-ta		
	šuku-ta	(veil)		
	(headsh			
	awl),			
	šuku-			
	ku (to			
	wrap			
	one's			
	head)			

war-u-, war-o-			wall-u- (to cut into pieces, cut up)
waš-a- (also waša- nci-ku 'seat, chair') wik-i-šu	was-i (house)	was-i (house)	
hi	wik-su (crooked, twisted, bent, crooked d) dashhi-		
hawa-		hawa (top)	
hata-		hata-ri (to get up, rise)	
huku-mbi- ta-		huk (one another), huk-ni-n (the other, add, mix, join, unite)	
upa-ce	upa-ku- (to wash one's face)		
ure-, ore-		uri (premat ure)	
dashmara-	malli- (also to try (out))		
mati-		mat'i (to push, squeeze, tweak)	
dashmu	mutu (bud)	mut-mu (bd)	kut-mu- (cut with teeth)

muru-			
muru-mi			
			murru-s murru-s (ideophone, sound of eating toasted corn or any hard food)
a-	aku- (to chew, chew coca), amu- (hold in the mouth)		
aša-	a°ša (to open the mouth widely, to yawn), a°ša-ka (with open mouth)		

Purepecha	Boliv/ Ecuador Q	Tarma Q	Cajamarca Q	Ayma ra	Jaqaru	La Paz	Huanca
chir-a, chir-i (to coagulate, congeal), chiri-chiri- ngari- (to tremble all over as if from chill)	čiri ('cold')						
čur-i-ngari	čull-u (ice, to be freezin g)						
cur-a, cur-e, cor-a, chor- e; cure-n- cure-ru		čul-ba (to wash, winse, wet one's face); čul-ču (to drip, sweat)					
čupí-ri			čupi-ka (red)	čupi- ka (red)	mila-ka (red)		
tis-i-; tisi- me (to be bearded), tisi-me-kwa (beard), tisi- ru-kwa (nostril hair), tisi- tisi-ra-s (hairy, woolly)	tis-a (to comb wool)						
tuku-	tuku- (Bol. only)						

phaka-a-	paka (Ec., secret, occult) , paka- (Bol.)	
phar-a (also phara-ku- to twist or roll tight)	phar-i- (roll, turn, twist thread)	
pat- (e.g. in pat-u-khu to have a scratch on one's hand)		phat -a (to burs t, brea k open)
piču-	picu- (also to decomp ose, fall apart)	
phir-(i-)	pillu- (Ecua d. 'to wrap'), pilu-ri (to curl)	pil-ta- (to braid, plait)
pure-	puri- (Bol. to walk, travel, walk throug h, wande r, roam)	puri (to walk (about))
puru-a-		pul-ya- (to bubble, of boiling water)

puru-		puru (gourd, calabash)	
ka	ka-		
dashka	dashka	(Bol., if)	
karo-hpa-	karu-	(to dig)	
kac-a-	kac-u-	(also to chew)	
kumpu-	qhom-p u		
	(Bol.)		
kuru-hku	qhor-o	(mutil ated)	
kur-u-kwa- ro	k'ur-pa	kur-ba	
	(clod of earth)	(clod, lump of earth)	
kuna-kwa (also kun-a- 'to swallow')	kun-ka		
	(Bol., also neck)		
kutu-	k'utu-	kutu-	k'ut
	(cut with scissor s or scythe)	(to cut)	u- (also Coc haba mba , to cut a tree, with sciss ors)

šuku-	šuku-ta (head shawl), šuku-či (to adorn the head of the decease d)
war-u-, war-o-	wal-a- (to cut meat into strips)
waš-a- (also waša-nci-ku 'seat, chair')	was-i (Ecua d., house)
wik-i-šu	wiq-lu-š (crooke d, deforme d of hand)
huku-mbi-ta-	huk-ni-ki (your partner), huk-la- pa- (unite)
dashmara-	malli- (Ecua d. also to try a mouth ful)
mati-	mat'i (Bol., tight, squeez ed)
dashmu	muu (bud)

aša-	a°ša (to open the mouth widely, to yawn), a°ša-ka (with open mouth)
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Appendix C: Greenberg's (1987) cognates for Purepecha ('Tarascan')

Word	Tarasca n	Cuitlat ec	Lenca				
			Intibuc at	Chilan ga	Opato ro	Similat on	Guajique ro
bite	ara	e?la					
black ¹	vera- (dark)	puluši- li, puruši					
boy	ača (child)	ču, ču?u					
burn ¹	t ^b iri	tul(- wakaši) (dried beef, or burn- cow)					
burn ²	čuhpi, čp ^b i-ri	čibe					
chest	teru(nhe -kua)	ixtaloja					thala (neck)
ear ²	kut ^t u- kwa	kuhčidi					
far	io- (high, long)	jo, jaj-					
fire	kata (firewoo d)	kuhtə (also light)					
flower	t ^s it ^s i	tuxtu, tutul					
hole	poro (cave)	palałeli					
laugh	erhe-			jolo-			
mosquito	t ^t iri (wasp)	čile, šilga (wasp)					sira (bee)
old	thare-p- ti						toolo (old man)
one	to(-mu)						etta
say	aj- (inform, tell)	e		aj(-on)			
skin	čes	kuti					

strong	atie-ti (hard)	ahte (be able)					
sun	kut <i>č</i> i (moon)					kaši	kaši
tail	theta(- kwa) (buttock s)	dihta					
urine	jaz(ka- ta)	wili					
water ¹	dashma- (action on water)	?umə					
yellow	šunga- peti, šušunga s (green)			šuninga			
wash	t <i>č</i> ika (rub)			t <i>č</i> ik		sagi	
cold	t <i>č</i> ira			t <i>č</i> ana		sani (freeze)	
deer	axuni (also animal)			ak <i>č</i> uan	ahuing ee	aguingg e	ahuingee
earth	at <i>č</i> imo (mud)	ixtame, tamelo (field)					
liver (some forms may be borrowed from Spanish pecho)	mint <i>č</i> i-ta (heart)			mut <i>č</i> u- na			
large	era-hka- ta (tall)	iwili					
3sg	i- (this, that, he)	i- (def art)		i(-no), i- (indef obj), i:- (3sgpos s & obl			i(-na)
past tense suffix	š-			aš			

Total 'cognates'	68	22	0	9	1	4	7
Total/family	68	22	21				

Word	Tarasca n	Nuclear Chibchan				
		Antioquia		Aruak		
		Nutabe	Kagaba	Guamaca	Bintucua	Atanque
ear ²	kut <u>s</u> u-kwa		kuka	kukua, kuhkua		kukkua
earth ¹	ket <u>e</u> -kwa (under)				kasi(-k) (under)	
earth ²	viras (white earth)			auariga (under)		avarin (under)
mosquito	t <u>i</u> ri (wasp)		sungulu	tun	čun	
old man	tama-pu	tobe				
rain	emen-da (rainy season)		ni-mue (rainy season)		manje (storm)	
say	aj- (inform, tell)				j(-an)	
skin	čes				kutiru	
sleep	kuvi-kua		kaba		kama	
urine	jaz(ka-ta)		wisi			
water ²	juri-ri (blood)	ni	ni		ria (liquid)	
wing	ak(-s-kua)		gekala (also fin)			
wash	t <u>i</u> ka (rub)		ižukue (clean)		ačukua	
cold	t <u>i</u> ra			seanximi		
come ¹	dashno-		na, nai, nei (go)			
earth	at <u>i</u> mo (mud)					simoru (sweepings)
burn ²	apare		pula			

liver (some forms may be borrowed from Spanish pecho)	mint'i-ta (heart)			pešu (chest)		pešu (chest)
large	era-hka-ta (tall)				vari-n (high)	
many	vini-ni (be full)			bini		
yellow	t'ipan-be-ti			tamukueg-a		
3sg	i- (this, that, he)			i- (3sg.poss)		
Total 'cognates'	68	2	10	8	9	4
Total/family	68	2	31			

Word	Tarascan	Chibcha					
		Chibch-a	Uncasica	Tuneb-o	Tegria	Sinsiga	Duit
boy	ača (child)	ča (male)					
cook ¹	nini-rha-nni		ani (to boil), anina (cooked)		ani(-ndro)		
cover	šuku-ta-hpe-ni			teka-ra (poncho)			
earth ¹	ket'e-kwa (under)	guanza					
elbow	kukui-si				kuika (arm)	kuika (arm)	
name	het*(-nga-rha-qua)	[hyca]					
old man	tama-pu	tiba-ra, tiba-ča					
one	to(-mu)	ata, yta (hand)			at-uba (finger)		atia
sleep	kuvi-kua	[quyby]			kamaría		
strong	atie-ti (hard)				te(-kro) (brave)		

urine	jaz(ka-ta)	[hysu]					
water ²	juri-ri (blood)		li		ria, lia		
wing	ak(-s-kua)	gaka					
wash	t̄ika (rub)				suka- (bathe), suk-ro (bath)		
cold	t̄ira				sero		
earth	at̄imo (mud)	tum (mud)	tama ra (mud)		tami (mud)		
yellow	t̄ipan-be-ti	tib-	tamo -ja		tamairo		
3sg	i- (this, that, he)	i- (indef obj & gen'izer)					
Total 'cognate s'	68	12	4	1	10	1	1

Word	Tarasc an	Chibcha				
		Manare	Mar gua	Tairona	Pedraza	Boncota
ear ²	kut̄u-kwa		kuge xio		kukača	kukasa
elbow	kukui-si	kuika (arm)				kuika (arm)
name	het̄s(-ngā-rha-qua)		aka			
rope	sira(-ngua)	čita-ra				
sleep	kuvi-kua					kamaja
touch	kat̄i (squeeze)					kato
urine	jaz(ka-ta)	jisa				

water ²	juri-ri (blood)	ria	dia	dia	dia	dia	ria
cold	t ^č ira				seroa		
earth	at ^č imo (mud)		tabo- ra				
burn ¹	ete, t ^č (- ku-ni; set on fire)						etera (fire a weapon)
die	ahpe (kill)	paja-gui (kill)					
liver (some forms may be borrowed from Spanish pecho)	mint ^č i- ta (heart)	pučira (belly)					beča (chest)
water	it ^č i		dia				ria
Total 'cognate s'	68		6	5	1	3	8
Total/fa mily	68				52		

Word	Tarasc an	Cuna		Guaymi					
		Cueva	Cuna	Mov e	Changu ena	Chumul u	Gu ala ca	Muo i	
black ¹	vera- (dark)		polea (be dark)						
black ²	tuli (also charcoa l)			tra, tro					
burn ²	čuhpi, čp ^č i-ri					kba (fire)			
cook ¹	nini- rha-ni			ñio(- kwa) (fire)					

cover	šuku-ta-hpe-ni		tukusii (to be hidden)					
dance	vara-ni							ubra
ear ²	kut <u>s</u> -kwa				kuga	kuga		
earth ²	viras (white earth)							ubar (sand)
flower	t ^t it <i>i</i>		tutu					
laugh	erhe-		ale-					
live	t ^t i(-pe)		sii (sit, be)					
mosquito	t ^t iri (wasp)			suerit	siiru (fly)			
name	het(-nga-rha-quau)			ko				
old	thare-p-ti		sele, sere			tare	tare	
old man	tama-pu	tiba (king)						
one	to(-mu)			dasht i				
push	phaka		pike					
skin	čes			kuat a				
sleep	kuvi-kua		kaqe				kabi-gal	
strong	atie-ti (hard)			di (strength)				
water ²	juri-ri (blood)			dash ri, -li, -ni (liquid)			ti	
wing	ak(-s-kua)				kek			
come ¹	dashno -		noni, nene, nae (go)					

earth	at ^t imo (mud)			thob o		savi-ru		
die	ahpe (kill)		ipjoa (kill)					
shin	dashkar i- (incorpo- rated)			nguri e				
large	era- hka-ta (tall)		wili (deep)					
many	vini-ni (be full)		pule, pelo (all)					
3sg	i- (this, that, he)		i- (indef obj)	ja				ja
Total 'cognate s'	68	1	13	10	1	6	5	3

Word	Tarascan	Nuclear Chibchan					Malib u
		Murir e	Gua yymi	Norteño	Saban ero	Penomeñ o	
bite	ara						erau
cook ¹	nini-rha- ni			ñio(- kwa)			
dance	vara-ni			prare (n.)		prare (n.)	
ear ²	kut ^t u-kwa						kut ^t a(- kra), kuusu) -ka), kut ^t a (hear)
name	het ^t (-nga- rha-qua)						kaka (to be called)
old	thare-p-ti			turua (grandfa- ther)		turua (grandfath- er)	

one	to(-mu)						aatta-kra (hand)
sleep	kuvi-kua				gabede		
strong	atie-ti (hard)						taje
yellow	šunga-peti, šušungas (green)						sunsuru (green)
wash	t'ika (rub)						
cold	t'ira						sohnikote
come ¹	dashno-						nor̩
earth	at'imó (mud)				debbi		
many	vini-ni (be full)						muni (abound)
water	it'i	či					
3sg	i- (this, that, he)	ja	ja				
past tense suffix	š-						
Total 'cognates'	68	2	1	3	2	2	9
Total/family	68	35					9

Word	Tara scan	Misumalpan					
		Sumu	Cacaope ra	Miskito	Tawaska	Ul ua	Matagal pa
belly	va- (inside)	ba				ba	pu
black ¹	vera- (dark)					ba	ra
cover	šuku-ta-hpe-ni	sakawa ki (hide)					

mosquito	tiri (was p)			tairri			
old	thare-p-ti			tara (large)			
old man	tama-pu			dama (grandfather)			
see	mi, miu (also count)		bi				
skin	čes		k'uta				
sun	kut'i (moon)			kati (moon)			
urine	jaz(k a-ta)	usu		is(-ka)		us u	
water ²	juri-ri (blood)		li	li			li
woman	uarhi -ti	jal (also female)	jora				
yellow	šunga -peti, šušun gas (green)				sang-ni (green)		
wash	t'ika (rub)		saka	sik			
cold	t'ira	sang (cold weather)					
shin	dashk ari- (incorpo rated)	kal				ka l	

liver (some forms may be borrow ed from Spanis h pecho)	mint'i -ta (heart)	pas (chest)						
many	vini- ni (be full)			bani (each)				
water	it'i		li	li, laja			li	
Total 'cognates'	68		7	6	9	1	4	3
Total/family	68				30			

Word	Tara scan	Motilon			Rama			C or o bi si
		Dobocubi	Motilo n	Barira	Rama	Guatuso, Guetar		
cover	šuku- ta- hpe- ni				al-taku- ai (be hidden)			
ear ¹	kurha- ngu- ni (hear)							ku r (h ea r)
ear ²	kut'u- kwa			kut'i- nje				
fire	kata (fire wood)	kadø						
laugh	erhe-	aru						

name	het ^t (-ngarhraqua)				ak		
one	to(-mu)	atu (finger)					
rope	sira(-ngua)		sita (belt, liana)		sira (thread)		
sleep	kuvi-kua	koba			kami		
water ²	juri-ri (blood)				ari (liquid)		
wash	t ^t ika (rub)				suki		
cold	t ^t ira	tero(-kwa)					
earth	at ^t im o (mud)	atan, atam (bad)		atan, atam (bad)			
many	vini-ni (be full)				bain		ba in
water	it ^t i					ti	
worm	karha -si					karan (Guatuso)	
3sg	i- (this, that, he)				i, ja (also 3sgposs)	i (also prefixed possessive)	
Total 'cognates'	68	7	1	2	8	3	2
Total/family	68	10			13		

Word	Tara scan	Talamanca						Pay a
		Terraba	Tirub	Bri bri	Cab ear	Chiripo	Borunc a	
belly	va- (inside)	bu(-wo)						
black ²	tuli (also charco al)			doro roi		dorona	turinat	tersu (Neg ro)
ear ²	kut <u>s</u> kwa		kuzung (hear)					
earth ¹	ket <u>e</u> kwa (unde r)					kaša		
elbow	kukui -si							koki sa (kne e)
hole	poro (cave)	fre (cave)						
live	t̪i(- pe)	se	si					
mosqu ito	t̪iri (wasp)	serung (fly)					serung (fly)	
name	het ⁸ (- nga- rrha- qua)	ko						
old	thare- p-ti	ter (grandm other)	ter (grandmot her)		daba i (fath er- in- law)			
one	to(- mu)			et				as
rain	emen -da (rainy seaso n)				mo			

rope	sira(-ngua)	(kor-)sreng (root, kor = tree)	seren						
skin	čes	kwota	kwota						
sleep	kuvi-kua			kipu		kpu			
urine	jaz(k-a-ta)						wiš(-ku)		
water ²	juri-ri (bloo d)	ti		di					uri (blo od)
wing	ak(-s-kua)						ika		
woman	uarhi-ti	ware							
cold	t̪ira	sen					t̪aara (be cold)		saini sta (be cold)
earth	at̪im o (mud)				tamā (dirt y)		tap		
large	era-hka-ta (tall)								uruh a (dee p)
many	vini-ni (be full)		pir(-kru) (all)						
water	it̪i	ti, di	di						tia
3sg	i- (this, that, he)			i- (3sg poss)			i, iæ, j- (3sgposs)		
past tense suffix	š-								
Total 'cognates'	68		12	7	5	3	3	7	7
Total/family	68	37							7

Word	Tarascan	Xinca			
		Yupultepec	Chiquimulilla	Sinacatan	Xinca
burn ¹	t ^h iri				tala, tarala (to toast)
chest	teru(nhe-kua)	taļi	taļi		
live	t ^h i(-pe)	iši			
wing	ak(-s-kua)	kaha			
woman	uarhi-ti		ajal	ajala	
cold	t ^h ira		sarara		saralt ^h i (to cool), sarara (frost)
large	era-hka-ta (tall)	ura			
day	piri-tani (lighten), piri-rasi (luminous)	pari (also sun)	pari (also sun)		
2sg	sdashke(-ni) (1sg acts on 2sg)				(na-)ka, ka- (2sg possessive)
Total 'cognates'	68	5	4	1	3
Total/family	68		13		

Word	Tarascan	Yanoama				
		Sanema	Shiriana	Yanam	Yanomamī	Yanoam, Yanomam
burn ²	čuhpi, čp ^h i-ri	t ^h opi, čɔobi (hot)				
cook ²	hiri					hari
dance	vara-ni					praia
rain	emen-da (rainy season)	maa				maa
rope	sira(-ngua)				ašitha	

see	mi, miu (also count)	mi				mi
skin	čes			kasi	kasi	kasi
wash	t̄ika (rub)	tikukai				
cold	t̄ira			sāi		sāi (Yanomam)
earth	at̄imo (mud)		čami (mud)			
burn ²	apare				fraa	
liver (some forms may be borrowed from Spanish pecho)	mint̄i-ta (heart)	amoki			amoki	amok
many	vini-ni (be full)				pr̄owa (large)	pr̄owa (large)
Total 'cognates'	68	5	1	2	5	8
Total/family	68			21		

Word	Tarascan	Allentiac		Atacam a	Bet oi	Chimu		
		Milcay ac	Allenti ac			Chi mu	Mochi ca	Eten
bite	ara					rr(-an)		
boy	ača (child)							čoh (also child)
burn ²	čuhpi, čp̄hi-ri		čaps			xllep		
chest	teru(nhe-kua)					axtær r		
come ¹	pe- (do while coming)		pe (future)					
cook ¹	nini-rha-ni							nin (also boil)
fire	kata (firewood)	ketek						

hole	poro (cave)		huru (door)				
laugh	erhe-	alau					
mosquito	t ^s iri (wasp)						sinu, senu
name	het ^s (- nga-rha- qua)						ok
old man	tama-pu		tomal				
see	mi, miu (also count)			mini			
skin	čes			k [?] ati			
sleep	kuvi- kua			k [?] ip-ti (bed)			
sun	kut ^s i (moon)						kæss
water ²	juri-ri (blood)			(pu-)ri, (la-)ri (blood)			
wash	t ^s ika (rub)		čok	č [?] ek [?] ati- n, č [?] ek [?] u- n (baptize)			t ^s uk (clean)
cold	t ^s ira			sera-r			t ^s an
come ¹	dashno-		neñ (road)				
earth	at ^s imo (mud)				dafi -bu	tum (mud)	tuno (mudd y)
liver (some forms may be borrowed from Spanish pecho)	mint ^s i-ta (heart)	počok (belly)					počak
many	vini-ni (be full)						men (to swell)
yellow	t ^s ipan- be-ti						t ^s a:m
3sg	i- (this, that, he)			ia, i- (3sgposs ss)			

with ('associative ' affix)	pi- (to be joined, together , similar), pipi, pire (man's older brother)		p- (kin term prefix)			p- (kin term prefi x)	p- (kin term prefix; Yunca)	
Total 'cognates'	68	4	8	7	1	4	2	11
Total/fam ily	68	12		7	1		17	

Word	Tarasca n	Itonama	Jirajira			Mura	
		Itonama	Ayoma n	Gayo n	Jirajir a	Matana wi	Mur a
black ¹	vera- (dark)	bola (shadow)					
black ²	tuli (also charcoal)					torupi (shadow)	
dance	vara-ni				prarara (n.)		
earth ¹	ket'e- earth ¹	kus- (down, v. prefix)					
earth ²	viras (white earth)						bere
live	t̪i(-pe)	si (be)					
old man	tama-pu		tum				
shoulder	pešo	paču-kaka, ux-pača- čano (your upper back)					
earth	at̪imo (mud)		dap	dap	dap		
burn ²	apare	ubari (fire)					

liver (some forms may be borrowed from Spanish pecho)	mintsi-ta (heart)		apox (belly)			miši-ta (heart)	
large	era-hka-ta (tall)						uri
many	vini-ni (be full)	amaniato					
yellow	t'ipan-be-ti					tomā (blue)	
3sg	i- (this, that, he)	i- (unspecified obj)					
nominalizer (suffixes if no dash indicated)	ni	na, ne					
past tense suffix	š-						
Total 'cognates'	68		8	3	1	2	3 2
Total/family	68		8		6		5

Word	Tarascan	Mura	Andaqui	Barbacoa			
				Cayapa	Colorado	Cará	Cuaiquer
belly	va- (inside)			bi	bi		
burn ²	čuhpi, čp ^b i-ri				čiba-na, čiba-ge (heat)		
come ¹	pe- (do while coming)	abe (let's go)			fua (arrive)		
cook ¹	nini-rha-ni			ni (fire)	nija (burn), ni (fire)		
ear ¹	kurha-ngu-ni (hear)						kail

earth ²	viras (white earth)				bual a (fiel d)	piλ [pill]
hole	poro (cave)			horo	foro	
mosquito	t'iri (wasp)		tunihi	tanda (bee)	čina (bee)	
rope	sira(- ngua)				čili, sili	
see	mi, miu (also count)			mi	mi (knowled ge, learn)	
shoulder	pešo		[fasziyunichi ni] (back)		behči (back)	
skin	čes			kido	kido	
sleep	kuvi- kua			kepe (night), kapi- ana (be sleping)		
come ¹	dashno-				nena (walk)	
earth	at'imo (mud)			tumajii (dirty)		
die	ahpe (kill)			pe, peja	pu(-jae)	
liver (some forms may be borrowed from Spanish pecho)	mint'i- ta (heart)			pešu (stomac h)		
many	vini-ni (be full)				man	
3sg	i- (this, that, he)			ja		

with ('sociative' affix)	pi- (to be joined, together, similar), pipi, pire (man's older brother)				pe- (also in the company of)		
nominalize r (suffixes if no dash indicated)	ni			nu			
Total 'cognates'	68	1	2	13	14	1	2
Total/family	68	1	2		30		

Word	Tarascan	Choco				
		Catio	Citara	Tucura	Chami	Nonama
belly	va- (inside)	bi	bi	bi		
black ²	tuli (also charcoal)				tauri (shadow)	
ear ¹	kurha-ngu-ni (hear)				guru	
ear ²	kut <u>s</u> u-kwa					katji
old man	tama-pu					tumbela (large)
sleep	kuvi-kua	kebu-ra			kaimbej (lie down)	
urine	jaz(ka-ta)	sia (urinate)				
wash	t <u>i</u> ka (rub)	sygyja				
cold	t <u>i</u> ra					
come ¹	dashno-	nenu				
earth	at <u>s</u> imo (mud)	tumia (devil)				
die	ahpe (kill)				piuee	
many	vini-ni (be full)	bari (grow)				
water	it <u>i</u>					
worm	karha-si					

day	piri-tani (lighten), piri-rasi (luminous)		ibare				
Total 'cognates'	68	7	2	1	4	2	

Word	Tarasca n	Choco			Paez			
		Wauna na	Saij a	Samb u	Paez	Mogu ex	Toto ro	Guambi ana
boy	ača (child)				uču (small)			
burn ²	čuhpi, čp ^h i-ri				šaþj (burn onself)			
come ¹	pe- (do while coming)				pa (arrive)			pu (arrive)
cook ¹	nini- rha-ni							nenin (working)
ear ¹	kurha- ngu-ni (hear)	kuru		kuru	kalo	kalo	kalo	kalo
earth ²	viras (white earth)						pir-d	pire
old man	tama-pu				tēē (adult)			
see	mi, miu (also count)				ßia (appear)			
woman	uarhi-ti	wara	wer a	wara				
wash	t ^h ika (rub)				sōkak (caress, knead)			
liver (some forms may be borrowed from Spanish pecho)	mint ^h i-ta (heart)				me ^h kj, meeki	mik-t (belly)		pat ^h e, pathe

large	era-hka-ta (tall)				wala	wala		
many	vini-ni (be full)							minu
day	piri-tani (lighten), piri-rasi (luminous)			ibaru (mouth)				
3sg	i- (this, that, he)				i (3pers obj)			
with ('sociative ' affix)	pi- (to be joined, together, similar), pipi, pire (man's older brother)				pe- (duality, comitative)			
Total 'cognates'	68	3	1	3	14	4	2	6
Total/family	68	23			26			

Word	Tarascan	Timucua		Warrau	Plateau Penutian
		Tawasa	Timucua	Warrau	Klamath
come ¹	pe- (do while coming)		po(-no)		
ear ²	kut ^s u-kwa		okoto (hear)		
earth ¹	ket ^e -kwa (under)		[qisa]	kahu (underside)	
earth ²	viras (white earth)		pile (field)		
hole	poro (cave)		pali (to open)		
mosquito	t ^s iri (wasp)	čena (bee)			
old man	tama-pu			idamo	
one	to(-mu)			isa	

rope	sira(-ngua)			ahutu	
skin	čes		ukwata (body, flesh)		
touch	kat ^s i (squeeze)			kata (press)	
wash	t ^s ika (rub)			siko-, seke- (rub)	
cold	t ^s ira				
come ¹	dashno-			nao	
earth	at ^s imo (mud)			hobo-to (also mud)	
liver (some forms may be borrowed from Spanish pecho)	mint ^s i-ta (heart)			amahi	
large	era-hka-ta (tall)			wari	
many	vini-ni (be full)		mine (large)		
3sg	i- (this, that, he)			i (3pers obj)	
with ('sociative' affix)	pi- (to be joined, together, similar), pipi, pire (man's older brother)				p- (kinship term prefix; also found in Andean, Hokan and Penutian languages. The -n(V) derives infinitives and verbal nouns from verbal stems.)
Total 'cognates'	68	1	8	12	(1)
Total/family	68	9		12	(1)

Appendix D: Language sample and references for metallurgy study

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Dorasque	Pinart, Alphonse L. 1890. <i>Diccionario castellano-dorasque, dialectos Chumulu, Gualaca y Changuina</i> , Paris: Ernest Leroux
Duit	Lehmann, Walther. 1920. <i>Zentral-Amerika: Die Sprachen Zentral-Amerikas</i> . (I.) Berlin: Dietrich Reimer.
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Esmeraldeño	<p>Seler, Eduard. 1902. Gesammelte Abhandlungen der Amerikanischen Sprach- und Alterthumskunde, Erster Band, Berlin: A. Asher & Co.</p>
Guajiro	<p>Jusayú, Miguel Angel & Jesús Olza Zubiri. 1981. Diccionario de la Lengua Guajira, Castellano-Guajiro, Caracas: Universidad Católica Andres Bello, Centro de Lenguas Indígenas.</p> <p>Captain, David M. and Linda B. Captain. 2005. Diccionario Básico: Ilustrado ; Wayuunaiki-Español ; Español-Wayuunaiki. Bogota: Edit. Fundación para el Desarrollo de los Pueblos Marginados.</p>
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Huastec	Alejandro, Marcelo. 1889. Cartilla Huasteca con su Gramática, Diccionario, y varias Reglas para Aprender el Idioma, México: Oficina Tip. de la Secretaría de Fomento. Larsen, Ramón. 1997 [1955]. Vocabulario Huasteco del Estado de San Luis Potosí, México, D.F.: Instituto Lingüístico de Verano.
Huichol	McIntosh, Juan B. & José Grimes. 1954. Niuqui īquisicayari: Vixárica niuquiyári Teivári niuquiyari hepáisita, Vocabulario Huichol-castellano, Castellano-huichol, México, D.F.: Instituto Lingüístico de Verano. Aceves, Raúl. 2005. Teiteri Wayeyiyari: Glosario de Cultura Huichola, Guadalajara: Secretaría de Cultura de Jalisco.
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Kogi	Celedón, Rafael. 1968 [1886]. Gramática de la lengua Köggaba con Vocabularios y Catecismos, Nendeln/Liechtenstein: Kraus Reprint.
Kuna	Pinart, Alphonse Louis. 1890. Vocabulario Castellano-Cuna, Paris: Ernest Leroux. Puig, P. Manuel María. 1944. Diccionario de la Lengua Caribe-Cuna, Panama, R. de P.: La Estrella de Panama.
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Mapuche	Espósito, María. 2003. Diccionario Mapuche-Castellano, Castellano-Mapuche, Buenos Aires: Editorial Guadal S.A. Barbará, Federico. 1944. Manual de la lengua pampa, Buenos Aires: Emecé Editores, S.A.
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Miskito	Centro de Investigación y Documentación de la Costa Atlántica. 1986. Diccionario elemental Miskito-Español, Español-Miskito, Managua: División de Comunicaciones – MIDINRA.
Mixteca alta	Beaty de Farris, Kathryn (compiler), Pablo García Sánchez, Rubén García Sánchez, Jesús Ojeda Sánchez, Augustín San Pablo García and Apolonio Santiago Jiménez (colaboradores mixtecos). 2012. Diccionario básico del Mixteco de Yosondúa, Oaxaca, Coyoacán, D.F.: Instituto Lingüístico de Verano. Dyk, Anne and Betty Stoudt. 1965. Vocabulario Mixteco de San Miguel El Grande, México, D.F.: Instituto Lingüístico de Verano.
Mixteca costera	Stark Campbell, Sara, Andrea Johnson Peterson and Filiberto Lorenzo Cruz (Compiladores), Catalina López de García and Daniel Fidencio García Alavez (Colaboradores mixtecos). 1986. Diccionario mixteco de San Juan Colorado, México, D.F.: Instituto Lingüístico de Verano. Pensinger, Brenda J. (Compiladora). 1974. Diccionario Mixteco-Español, Español-Mixteco, México, D.F.: Instituto Lingüístico de Verano.
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Nahuatl	Ramírez de Alejandro, Cleofas & Karen Dakin. 1979. Vocabulario náhuatl de Xalitla, Guerrero, Centro de Investigaciones Superiores del INAH.

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Old Guajiro (C19)	Celedon, Rafael. 1878. Catecismo I Vocabulario de la Lengua Goajira, Collection Linguistique Américaine, Tome V, Paris: Libreros-Editores (reprint 1968 Nendeln/Liechtenstein: Kraus Reprint).
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Pame, Southern	Manrique C., Leonardo. 1967. Jiliapan Pame, in Norman A. McQuown (ed.), <i>Handbook of Middle American Indians</i> , Volume 5: Linguistics, Austin: University of Texas Press, pp. 331-348.
Puquina	Aguiló, P. Federico. 2000. El Idioma del Pueblo Puquina: Un enigma que va aclarándose, Quito: Imprefepp. Adelaar, Willem F.H. with Pieter C. Muysken. 2004. <i>The Languages of the Andes</i> , Cambridge: Cambridge University Press.
Purépecha	Velásquez Gallardo, Pablo. 1978. <i>Diccionario de la Lengua Phorepecha, Español-Phorepecha, Phorepecha-Español</i> , México D.F.: Fondo de Cultura Económica. Pérez Pamatz, Felipe and Benjamin Lucas. 2004. Glossary of Coppersmithing. In: Michele Feder-Nadoff (ed.), <i>Ritmo del Fuego</i> , México: Morevallado Editores. Horcasitas de Barros, María Luisa. 1981. Una artesanía con Raíces Prehispánicas en Santa Clara del Cobre, Addenda 1980, México D.F.: Instituto Nacional de Antropología e Historia. Horcasitas de Barros, María Luisa. 1974. Cobre Martillado:

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Quechua, Cajamarca	Quesada Castillo, Felix. 1976. Diccionario Quechua: Cajamarca-Cañaris, Lima: Ministerio de Educación/Instituto de Estudios Peruanos
Quechua, Cusco	Hornberger, Esteban S. & Nancy H. Hornberger. 1978. Diccionario tri-lingue: Quechua of Cusco/English/Spanish, Volume III Español Quechua, Qosqo: Imprenta Prelatura de Sicuani.
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Appendix E: Metallurgy wordlist

alloy	crucible
anvil	deposit (of ore/mineral)
arrow [point]	digging stick tip
arsenic	disc/coin
awl	disc, flat used in electric grinders
axe	disc, flat and thick of hammered
axe money/naipe	copper
axehead	ear spool, earring
balance/scale(s)	enamel
bead	fan (electric)
bell (different types)	file (iron or steel for smoothing)
bellows	finger ring
blade, curved (for cleaning plancha)	fire
blowtube	firewood
bowl	fishhook
bracelet	form/stake used to give a piece form
brazier/clay furnace	fuel
breastplate	furnace
bronze	gilding
brooch	gold
burin	hammer
button	head ornament
cast/mould	helmet
chisel	hoe
cinnabar	hot
clamps, c-clamps	ingot
compass	iron
copper	knife
crown	lip plug, labret

lost wax casting	stones for containing old metal
metalworker	sword
mine	temperature
moneychanger, barterer	tin
moveable metal stake	to add height to walls of vessel whilst
necklace	deepening
needle	to alloy
nose ring	to cast
open ring	to crush [slag]
ore	to even up
outline/trace	to fold object's edge
pin	to gild
pit	to give the object (cazo) the desired
pliers	height
pole, wooden for removing impurities	to hammer
rattle	to locate ore
rocks around mouth of cendrada	to melt
scraping pole	to mine
scribed guidelines	to polish/shine/burnish
shears	to shape
shield	to silver-plate
silver	to smelt
silversmith	to solder, weld
slag	to stretch, extend
sledgehammer	to work metal
smelter	tongs
smithy	tool blade
smoke	tumbaga
soldering	tweezers
spear head/point	vessel, wide-mouthed
stick for cleaning molten copper	wax

white hot

woodblock, dapping bench

wooden piece for tracing circles

workshop

**Appendix F: Languages recorded in Michoacán,
1521-1804 CE (following Gerhard, 1993 [1972])**

Provincia	Modern state	Main language(s) at contact	Other language(s)
Amula	Jalisco	Otomí dialects (Amultecan, Bapame, Pino, Zapoteco)	N/A
Charo (Matlatcinco)	Michoacán	Pirinda/Matlatzinca, Tarascan	N/A
Cinagua y la Guacana	Michoacán	Tarascan	Nahua (traces, possibly)
Colima	Colima, Jalisco	Archaic Nahua (possibly), “Otomí”, Xilotlantzinca (form of Nahua?)	Tarascan?
Cuiseo de la Laguna	Michoacán	Tarascan, Chichimec (likely Pame or Chichimeca-Jonaz)	N/A
Guaymeo y Sirándaro	Michoacán	Tarascan	Matlatzinca, Apaneca (aka Pantecan?), Náhuatl, Cuicatecan, Chontal
Maravatio	Michoacán	Tarascan, Otomí, Náhuatl	Mazahua (replaced Tarascan by mid- 17th century)

Motines	Michoacán	Tarascan	Cuauhcomeca (inland), Epateca, Aquilan, Motintlan, Maquilian, Huahuan (all coastal, affiliations unclear)
Sayula (Avalos)	Jalisco	Sayultecan (probably Nahua variety), “Pinome” (aka Cora), Coca/Tachtoque (related to Pinome/Cora), another Nahua language	N/A
Tancítaro	Michoacán	Tarascan	Xilotlatzinca (Nahua)
Tetela del Río	Guerrero	Cuitlatec, Nahuatl	Chontal, Coixca (Nahua), Tarascan, Tepuztec
Tinhuindín	Michoacán	Tarascan	N/A
Tlapuxagua	Michoacán	Mazahuan	Pame, Nahuatl
Tlazazalca	Michoacán	Tarascan	Mexicano (i.e. Nahuatl)
Tuspa	Jalisco	Cochin, Chichimeca, Nahua, Piñol/Pino (probably Cora, Tiam, Xilotlantzinco (Nahua), Zapotlanejo (prob.	Tarascan (by 1570)

		Nahua variety of Zapotlán)	
Valladolid (now	Michoacán	Tarascan	Nahua, Matlatzinca,
Morelia)			Guamare
Xiquilpa (Guanimba)	Michoacán	Nahua (Sayultecan?)	Tarascan
Zacatula	Michoacán	Chumbian, Tolimecan, Pantecan, Cuitlatecan (all at contact); also Náhuatl ('mexicano tosco'; coastal lingua franca), Mexicano, Cuitlatec & Tepuztecan (aka Chinantec? Or another Nahua variety)	Tarascan (at trading outposts?)
Zamora y Xacona (modern	Michoacán	Sayultecan, Tamazultecán (both Náhuatl), Tarascan,	Chichimec (possibly)
Jacona)		'corrupt' Mexican (i.e. Nahuatl)	

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Postscript

her steel tringle rings
and bees swarm to her hollow oak
what magic brings *us* home?

[...]

to be drunk once more
at a Mexican fiesta!
Time doesn't matter

(Paul Friedrich, a goldfinch instant)

Curriculum Vitae

Kate Bellamy was born in Sheffield (UK) in 1981. She attended King Edward VII Secondary School, leaving in 1999 with Advanced Levels in English Language, French, German, General Studies and a GCSE in Italian. After a year working and studying in France and Italy, she went up to Cambridge University in 2000 to read Modern and Medieval Languages, graduating with a Bachelor (Honours) in 2004. From 2004 to 2010 she worked in the UK and Luxembourg, mostly on European cooperation projects in higher and vocational education. In 2010 she returned to studying, in the form of the Research Master in Linguistics (Structures and Variation in Languages of the World) at Leiden University, from which she graduated (*cum laude*) in 2012. During the Master's programme she also worked part-time as a Student Assistant in the 'Evolutionary Processes in Language and Culture' research group at the Max Planck Institute for Psycholinguistics in Nijmegen. Following a year working full-time as a Research Assistant in the same research group, in June 2013 she joined the ERC-funded project 'The Linguistic Past of Mesoamerica and the Andes: A search for early migratory relations between North and South America', led by Prof. dr. Willem Adelaar. This thesis is the main product of that research.