

THE REPRESENTATION OF GENDER ON LOCAL PERSON PRONOUNS

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Background

Languages in which local person (i.e. 1^{st} and 2^{nd} person) pronouns show gender distinctions have been overlooked, despite abundant literature investigating gender on pronouns (e.g. Audring 2008). **Aim:** (i.) Bring such languages together under a single study. (ii.) Provide a model of the representation of ϕ -features on pronouns; derive two main generalisations on the global distribution of gender on pronouns; account for gender distribution within languages and its morphological realisation. **Previous studies:** Siewierska (2013) lists 21 languages with gender on local person. Plank and Schellinger (1997) do not offer a formal proposal. Berg (2024), though encompassing a similar corpus, focuses on a different puzzle and lacks a formal proposal.

Data

SG 3 + 2 + 1 Korana (Khoe-Kwadi), Hadza (Isolate), Ngala (Ndu)

SG 3 + 2 Abkhaz (Northwest Caucasian), Arabic, Hebrew, Berber (Riffian, Tacelhiyt, Kabyle, Aures, Tamazight), Amharic, Aramaic, Musey, Kera, Lele, Hausa,

Assumptions

A1: The complexity of the representation of person features increases from the 3rd (5) towards the 1st person (3) (Georgi 2013, Nevins 2007, Béjar and Řezáč 2009, Deal 2015).



- A2: Number is represented by a general number node [#] and a [PL] node below it, as in (7) (Harley and Ritter 2002). Feature [MINIMAI] may be added to represent dual number. Singular is the absence of number ⇒ absence of #P (Kratzer 2007, Nevins 2011, Pesetsky 2013).
- A3: Gender includes a general gender node CLASS, a marked feminine value [F] and an animacy [ANIM] and humanness [HUM] specification (8) (see also Hammerly 2018, Caha 2021, Adamson and Anagnostopoulou 2025, Puškar-Gallien to appear).

	Mupun, Kulere, Fyer, Ron (Bokkos, Daffo-Butura), Zari, Miya, Beja (Afro-Asiatic), //Ani, Gana, Buga/Khwe, Nama (Khoe-Kwadi), Manambu (Ndu), Kwoma (Sepic), Tunica (Tunica)
SG 3+1	Cocama-Cocamilla (Tupian)
SG 2 + 1	Paez (Isolate)
sg 2 sg 1	Iraqw, Sha, Burunge, Tuareg Berber (Afro-Asiatic), Moken (Austronesian)
PL 3+2+1	Spanish, Provençal, Shina, Slovenian (Indo-European), Gaagudju (Gaagudju), Berber (Riffian, Tacelhiyt, Kabyle, Tuareg) (Afro-Asiatic), //Ani, Gana, Buga/Khwe, Nama, Korana (Khoe-Kwadi), Hadza (Isolate), Emmi (Western Daly), Monumbo (Bogia)
PL 3+2	Berber Tumzabt Berber (Aures, Tamazight), Arabic, Hebrew, Beja (Afro-Asiatic), Tunica (Tunica)
PL 3+1	
PL 2 + 1	
PL 2	
PL 1	
DU 3 + 2 + 1	Gaagudju (Gaagudju), Slovenian, Lithuanian, (Indo-European), Dumo (Skou), Djeebbana, Burarra, Nakkara (Maningrida), Ngandi, Nunggubuyu, Anindilyakwa (Gunwinyguan), Murrinpatha (Southern Daly), Touo (Isolate), Bora (Boran), Murui Huitoto (Witotoan), //Ani, Gana, Buga/Khwe, Nama, Ko- rana (Khoe-Kwadi),
DU 3+2	Kamoro (Nuclear Trans New-Guinea)
DU 3 + 1	Cocama-Cocamilla (Tupian)
DU 2 + 1	
DU 2	
DU 1	Wutung (Skou)

Table 1: 62 languages belonging to 20 families with gender distinctions in local person

- (7) # PL MIN
 (8) CL
 ANIM F
 HUM
- A4: Each feature type projects a phrase. No root n is the base (Moskal 2015). Person is lower than number (Noyer 1992, Trommer 2002, Harbour 2016, Ackema and Neelemann 2018, van Urk 2019). Gender as CLP projected above #P (Puškar-Gallien to appear).

(9) $[_{KP} K [_{CLP} CL [_{\#P} \# [_{\pi P} \pi [_{nP} n]]]]$

- A5: Morphology interprets syntactic structures (Distributed Morphology, c.f. Halle and Marantz 1993), Vocabulary Insertion dishcarges syntactic features root-outwards; cyclic realisation of the phrases in (9) (Bobaljik 2000).
- A6: #P is a cyclic domain in the sense of Moskal (2015), Smith et al. (2019).

Analysis

The internal structure of 1st person: singular (10), plural (11) and dual (12)

(11)



CL -] #P



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Generalisations

Global level:

- Gender distinctions on 1^{st} and 2^{nd} person to the exclusion of 3^{rd} possible in the SG and PL.
- Gaps in the following conditions: only 1st person (in SG and PL), only 2nd person non-SG, only 1st and 2nd person non-SG, 3rd+1st person (in the PL).
- (1) *Generalisation I*:

Having gender distinctions in 1^{st} person singular entails having gender distinctions in the 2^{nd} and/or 3^{rd} person as well.

(2) *Generalisation II*:

Having gender distinctions in 1^{st} person non-singular entails having gender distinctions on 2^{nd} and 3^{rd} peson as well.

 \Rightarrow Formal description of 2nd and 3rd person is included in the formal description of the 1st person (Harley and Ritter 2002, Ackema and Neelemann 2013, 2018).

Individual-language level:

- gender distinctions on local person only in the SG
- only non-SG (c.f. Greenberg's 1963 *Universal 37*: A language never has more gender categories in non-singular numbers than in the singular, and *Universal 45*: If there are any gender distinctions in the plural of the pronoun, there are some gender distinctions in the singular also.)
 - both PL and DU, only DU, only PL (language lacks DU), only PL (language has DU)
- both in the SG and in the non-SG

Morphological level:

Global Consequences:

Generalisation I: If gender is present on 1st person, it will be present on other persons, c.f. A1. *Generalisation II:* Gender does not combine freely with any person in the non-singular number, due to cyclicity and since #P introduces a locality barrier (c.f. A2, A3, A4, A5).

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Language-internal consequences: Having gender present in some environments justifies postulating it across the board (e.g. languages with gender distinctions only on 2^{*nd*} person SG distinguish between 3^{*rd*} person M and F *object* pronouns: Iraqw, Burunge (Cushitic), Sha (Chadic), c.f. Mous 1993, Kiessling 1994, Jungraithmayr 1970). The absence of gender in certain environments depends on language-internal factors (markedness toleration, c.f. Weisser in press, principle of informativity, c.f. Berg 2024, diachrony, c.f. Plank and Schellinger 1997, etc.)

Morphological consequences: A4 and A5 predict that π should be realised closest to the nominal base, followed by # and then by gender (*Mirror Principle*, Baker 1985). Languages in Table 2 confirm this prediction. Others: Spanish, Provençal, Lithuanian, Slovenian, (most) Berber languages, Arabic, //Ani, Buga, Nama, ||Gana, Dumo, Djeebbana, Murrinhpatha, Nunggubuyu, Anindilyakwa, Touo, Bora, Paez, Nakkara, Emmi. The rest are under scrutiny.

SG	Korana	Hadza	Beja	Gaagudju
1			(un)àni	ngaanj
1м	ti-re	'ono		
1 F	ti-ta	'ono-ko		
2				ngiinja
2м	sa-ts	te	(um)bar̀u:k	
2F	sa-s	te-ko	(um)baṫu:k	
3м	ll'di-b	bami	(um)bar̀u:	ngaayu
3F	ll'di-s	bo-ko	(um)baṫu:	naawu
3C	ll'di-'i			
DU				
1inm	sa-kham			manaa-mana
1INF	sa-sam			manaa-njdja
1INC	sa-m			
1exm	si-kham			ngaa-mana
1exf	si-sam			ngaa-njdja
1EXC	s-im			
2м	sa-kharo			nginjaa-mana
2F	sa-saro			nginjaa-njdja
2C	sa-khaoo			
3м	ll'di-khara			nowoo-mana
3f	ll'di-sara			nowoo-njdja
3C	ll'di-kha			
PL				
1			(an)hinin	
1 INM	sa-tje	'uni-bi'i		man-aada
1INF	sa-se	'one-be'e		man-eemba
1INC	sa-da			
1EXM	si-tje	'u-bi'i		ng-aada
1exf	si-se	′ <i>o-be</i> ′e		ng-aamba
1exc	si-da			
2м	sa-kao	'iti-bi	(am)bar̀a:k(na)	nginj-aada
2F	sa-sao	'ete-be	(am)baṫa:k(na)	nginj-eemba
2C	sa-du			
3м	ll'dku	bi' i	(am)bar̀a:	now-ooda
3f	ll'dide	be'e	(am)baṫa:	now-oomba
3 C	ll'dine			

 Languages which have been argued to have separate gender morphemes: Spanish, Provençal, Lithuanian, Slovenian, Berber, Amharic, Arabic, Beja, //Ani, ||Gana, Buga, Nama, Korana, Hadza, Dumo, Kwoma, Kamoro, Djeebbana, Burarra, Murrinhpatha, Nunggubuyu, Anindilyakwa, Gaagudju, Touo, Bora, Paez, Tunica, Ngandi, Nakkara, Wutung, Emmi

• Pronouns not segmentable: Abkhaz, Musey, Kera, Lele, Hausa, Mupun, Monumbo, Shina

Selected references

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Table 2: Personal pronouns in Korana (Khoe-Kwadi, South Africa; Siewierska 2013), Hadza (isolate, Tanzania; Sands (2013: 270)), Beja (Cushitic, Sudan; Vanhove 2014: 16), Gaagudju (Gaagudju, Australia; Harvey 2002)