# Indexing of oblique participants: a preliminary typology

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German Research Foundation

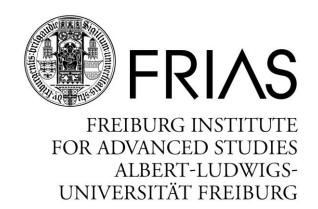
# Aknowledgment

- This work is part of a long-term typological project on the interactions between head-marking (indexing) and dependent-marking (flagging) in the languages of the world.
- Some results have already been presented and published (Arkadiev 2011, 2013, 2016, 2024a,b,c), but still work in progress.

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# Aknowledgment

 Project "Typology of flagging in headmarking languages", supported by a Marie-Curie senior fellowship at the Freiburg Institute for Advanced Studies (November 2023-August 2024).



 Project "Prominence hierarchies and the double-marking of objects" supported by a three-months senior fellowship at the SFB 1252 "Prominence in Language", University of Cologne (September-November 2024).



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## Roadmap

- What it is about
- Sample and distribution
- Indexed participants
- Role of prominence hierarchies
- Possible diachronic origins
- Discussion

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Indexing of obliquely-marked participants

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Pintupi (Pama-Nyungan > Desert Nyungic; Hansen & Hansen 1978: 61)

(1) malaku=latju=tjanampalura pitjangu return=1PL.EX.SBJ=3PL.AV went malpu-ngkamarra patjal-tjakumarra spirit-AV biting-AV 'We turned back to avoid the spirits biting us.'

AV – avoidance case, EX – exclusive, SBJ – subject

- A phenomenon that has almost completely evaded the attention of typologists.
- Indexing is (unsurprisingly) believed to be restricted to core grammatical relations.
- Nichols (1986: 78): a hierarchy of construction types favouring head-marking:
  - most likely least likely governed > subcategorized > inner adverbials > outer adverbials
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- In other words, double-marking (simultaneous flagging and indexing) of participants that are treated as oblique in a given language.
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- various "non-canonical" roles encoded in the same way as core participants, e.g. experiencers, inanimate causes etc.
- cases where a peripheral participant is promoted to core status (e.g. by an applicative) and hence indexed and flagged in the same way as P (or, more rarely, R);
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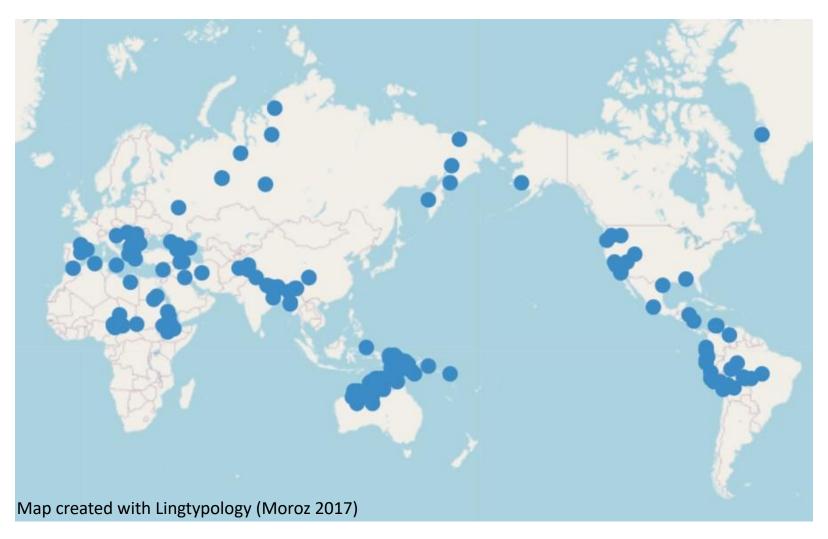
- a representative convenience sample of languages showing double-marking of at least some non-subject (S/A) participants;
- 188 languages from 72 families and 104 genera (including isolates);
- the sample in purposefully not genealogically stratified, in order to capture family-internal variation;
- for statistical purposes, families and genera will be counted (as many times as many types they represent).

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- 34 genera (33%), 28 families (39%);
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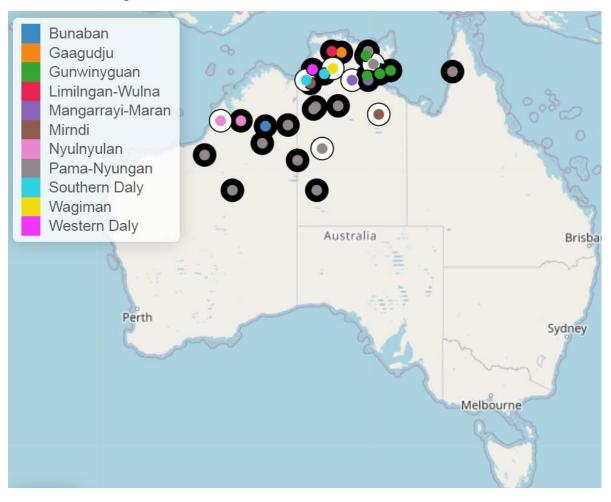
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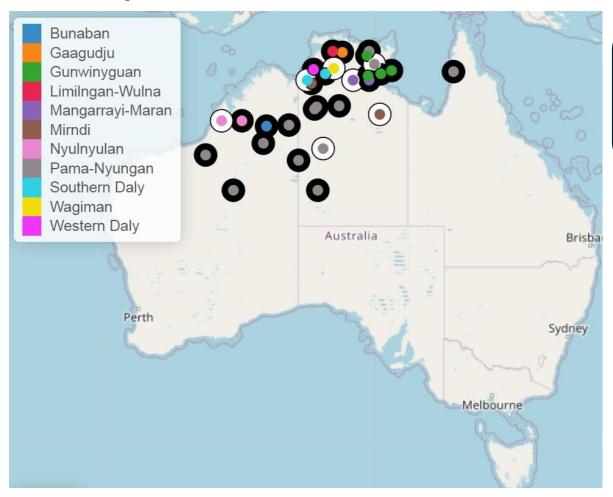
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	languages	genera	languages	genera
Africa	3	1	16	8
Asia	4	4	36	12
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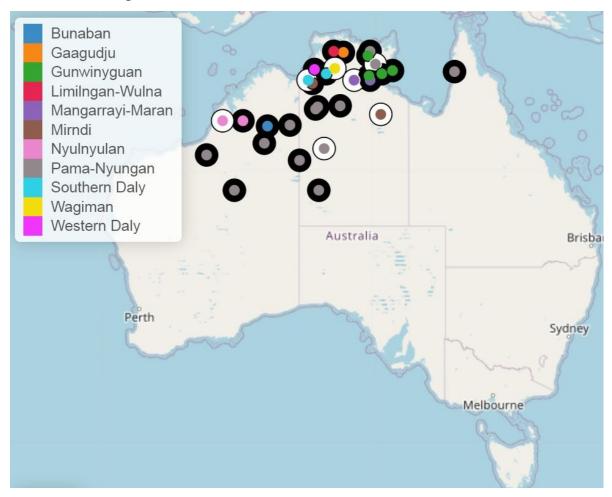




Gooniyandi Gaagudju Anindilyakwa Ngalakan Ngangi Wubuy Limilngan Mara Jaminjung Nyigina Bilinarra Djaru Djinang Gurindji Kuku Nganhcara Mudburra Ngardi Nyangumarta Pintupi Walmatjarri Wangkajunga Ngangityemerri Marithiel



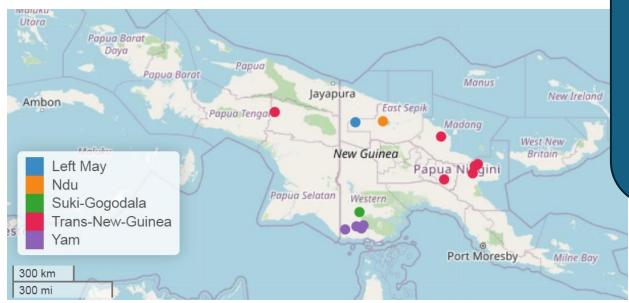
A clear areal feature transcending the borders of language families



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Particularly wellattested in the Pama-Nyungan languages of the North(-West), cf. Ennever & Browne 2023

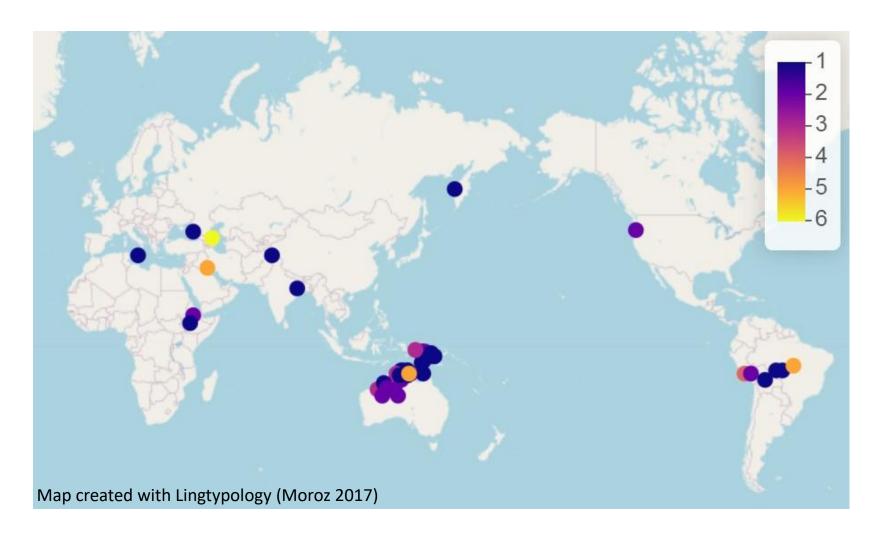


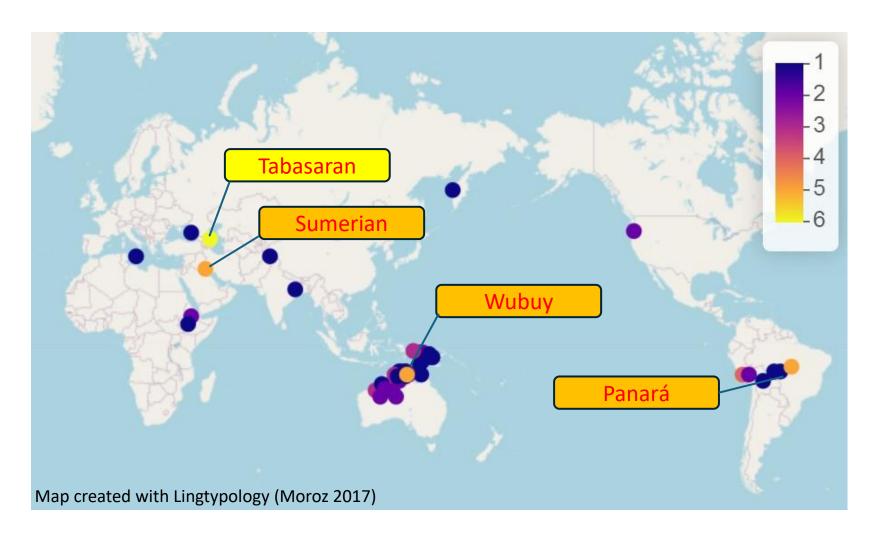


No clear areal patterning in New Guinea, but oblique indexing is attested in different families as well as different branches of the Trans-New-Guinea phylum

 Number of distinct oblique flagging-types ("cases") that can be indexed (two unclear cases excluded):

number	languages	genera	example
1	28	23	West Circassian
2	11	7	Amharic
3	6	4	Bilinarra
4	3	3	Ayacucho Quechua
5	3	3	Panará
6 or more	1	1	Tabasaran





#### The absolute record:

Tabasaran (Nakh-Daghestanian > Lezgic), where in principle any of the ca. 40 oblique and spatial cases can be indexed by suffixed pronominals (e.g. Bogomolova 2012, 2018):

- (2) a. *uzu uvu-x-na ʁu<sup>r</sup>-ra=za=vu-x-na*. 1SG 2SG-APUD-LAT come-PRS=1SG.A-2SG-APUD-LAT 'I am going to you.' (Bogomolova 2018: 827)
  - b. baj izu-q<sup>h</sup> hit'ik'-nu-zu-q<sup>h</sup>.
    boy.ABS 1SG-POST hide-AOR-1SG-POST
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A – agent, ABS – absolutive, AOR – aorist, APUD – localisation "at", LAT – lative, POST – localisation "behind", PRS – present tense

- Indexing (i.e. double-marking) of obliques presupposes indexing of core arguments, most notably P and R (no exceptions among the languages of the sample).
- This is not surprising, given the overall preference for indexing of core participants.
- However, it is not the case that double-marking of obliques presupposes double-marking of P or R: in 11 (i.e. more than 20%) of the languages with oblique indexing neither P nor R receive any flagging.
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- Not always easy to determine:
  - distinguishing between semantic roles can be notoriously difficult;
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beneficiary

Fore (Trans-New-Guinean > Kainantu-Gorokan, Papua New Guinea; Scott 1978: 112)

(3) na-ba:-ném-pá'-ti a-'ta-y-e 1SG-father-1SG-SG-ALLAT 3SG.O-put-3SG.S-IND 'He puts it there for my father.'

ALLAT – allative, IND – indicative, O – object, S – subject



maleficiary

Panará (Macro-Je > Je, Brasil; Bardagil-Mas 2018: 150):

(4) kwakriti jy=ra=pêê=ty inkjẽ pêê spider.monkey INTR=1SG=MAL=die 1SG MAL 'My spider-monkey died (on me).'

INTR – intransitive, MAL – malefactive

comitative

Yurakaré (isolate, Bolivia; van Gijn 2005: 60):

(5) më-jti lëtta-m ku-winani-shta-m mi-ye=tina 2SG-LIM one-2SG.S 3SG.AO-walk-FUT-2SG.S 2SG-sister=COM 'You will be the only one that is going to live together with your sister.'

AO – applicative object, COM – comitative, FUT – future tense, LIM – limitive, S – subject



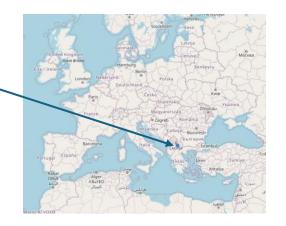


instrument

Amharic (Afro-Asiatic > Semitic, Ethiopia; Leslau 1995: 430):

(6) almaz b-addisu ərsasə-wa ṣaf-äčč-əbb-ät
Almaz INS-new pencil-3SG.F write.PFV-3SG.F.S-INS-3SG.O
'Almaz wrote with her new pencil.'

F – feminine, INS – instrumental, O – object, PFV – perfective, S – subject



spatial goal

Macedonian (Indo-European > Slavic; Lunt 1952: 108):

(7) Naizlego-a gluvc-i i mu=pojdo-a come.out-AOR.3PL.S rat-PL and 3SG.M.IO=go-AOR.3PL.S kaj adži mačor-ot... to Haji cat-DEF 'The rats came out in crowds and went to Haji Cat...'

AOR – aorist, DEF – definite, IO – indirect object, M – masculine

spatial location

Itelmen (Chukotko-Kamchatkan, Russia; Bobaljik & Wurmbrand 2002: 23)

(8) nt-čaja-kinen ənna-nk

1PL.S-drink.tea-3SG.OBL 3SG-LOC

'We had tea at/by him (at his place).'

LOC – locative, OBL – oblique

Oʻzbekiston Türkmenistàn العراق العودية مان المودان تبا

spatial source

Sumerian (isolate, Ancient Near East; Jagersma 2010: 457):

```
(9) anše=ta udu=ta ú.du.l=be
donkey=ABL sheep=ABL shepherd=3SG
?i-b-ta-n-ru.
PREF-3N.IO-ABL-3SG.A-eject
'From the donkeys and sheep, he dismissed their shepherds.'
```

A – agent, ABL – ablative, IO – indirect object, N – neuter, PREF – prefix

topic of speech



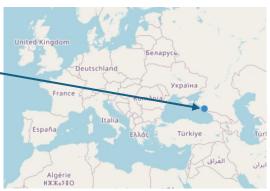
role	languages	genera
bene/maleficiary	38	23
goal	18	14
location	16	7
source	13	8
comitative	11	7
other	21	14

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That the bene/maleficiary is by a large margin the most frequently indexed oblique relation is unsurprising given its strong correlation with animacy (see further)

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West Circassian (Northwest Caucasian, Russia):

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(11) a. ja allah, se qə-s-fe-ʁeʁ<sup>w</sup>
PTCL God 1SG CSL-1SG.IO-BEN-forgive/IMP
'Oh God, forgive me.' (Quran 38:35, AdCorp)
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b. se-š' paje s-fe-w-e-ʁe.ṣ̂we.ž'ə

1SG-OBL for 1SG.IO-BEN-2SG.A-PRS-preserve

'[When you see beautiful and sweet things,] you
keep (them) for me.' (Lander 2015: 21)

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BEN – benefactive, CSL – cislocative, IMP – imperative, OBL – oblique case, PTCL – particle
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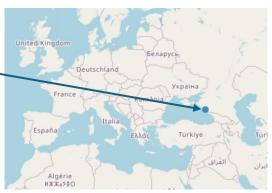
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The default encoding for a pronominal applicative object (if expressed at all) is the unmarked form of the pronoun

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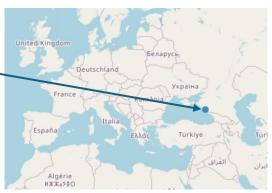
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BEN – benefactive, C
OBL – oblique case, F
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Elaborate marking by means of the purposive postposition is a rare option admittedly used for special emphasis; attested in texts but hardly mentioned in descriptions

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- (12) a. 1, 2 person > 3 person
  - b. human > non-human animate > inanimate
  - c. definite > specific indefinite > non-specific
  - d. topic > focus

Silverstein 1976, Aissen 2003, Iemmolo 2011, Haig 2018, Just 2022 etc.

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person

Ayacucho Quechua (Quechuan, Peru; Parker 1969: 71, 42): indexing only for 1<sup>st</sup> and 2<sup>nd</sup> person objects

- (13) a. ñuqa-paq rima-pu-wa-n-qa 1SG-BEN speak-BEN-1SG-3SG-NPRS 'He will speak for me (in my stead or in my behalf).'
  - b. amigu-m-paq=mi rima-pu-n-qa friend-3SG-BEN=ASS speak-BEN-3SG.S-NPRS 'He'll speak for his friend.'

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- (13) a. <u>nuqa-paq rima-pu-wa-n-qa</u>

  1SG-BEN speak-BEN-1SG.O-3SG.S-NPRS

  'He will speak for me (in my stead or in my behalf).'
  - b. amigu-m-paq=mi rima-pu-n-qa friend-3SG-BEN=ASS speak-BEN-3SG.S-NPRS 'He'll speak for his friend.'

```
ASS – assertion, BEN – benefactive, NPRS – non-present tense O – object, S – subject
```

animacy

Nyangumarta (Pama-Nyungan > Desert Nyungic;

Sharp 2004: 333):

- (27) a. *Partany karnti-nyi mungka-nga.*child climb-NFUT tree-LOC

  'The child climbed the tree.'
  - b. *Karnti-nyi-li yawarta-nga*. climb-NFUT-3SG.LOC horse-LOC 'He climbed onto the horse.'

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  child climb-NFUT tree-LOC

  'The child climbed the tree.'
  - b. *Karnti-nyi-li* yawarta-nga. climb-NFUT-3SG.OBL horse-LOC 'He climbed onto the horse.'

LOC – locative case, NFUT – non-future, OBL – oblique index set

topicality

Manambu (Ndu, Papua New Guinea; Aikhenvald 2008: 62, 365):

```
(15) a. wun a-də yab-a:r yi-tua-d

1SG DIST-SG.M road-ALLAT go-1SG.S-3SG.M.B

'I went towards this road (that we are talking about).'
```

b. tap-a:r yi-di village-ALLAT go-3PL.B (having done so-and-so) they went to their village.'

ALLAT – allative, B – basic index set, DIST – distal demonstrative, M – masculine, S – subject index set



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topicality

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  1SG DIST-SG.M road-ALLAT go-1SG.S-3SG.M.B

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  - b. tap-a:r yi-di village-ALLAT go-3PL.B '(having done so-and-so) they went to their village.'

ALLAT – allative, B – basic index set, DIST – distal demonstrative, M – masculine, S – subject index set



• Unfortunately, most descriptions lack a clear let alone comprehensive account of the relevant factors.

## Roadmap

- What it is about
- Sample and distribution
- Indexed participants
- Role of prominence hierarchies
- Possible diachronic origins
- Discussion

#### Roadmap

- What it is about
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- It is possible to propose a number of tentative diachronic pathways of emergence of oblique indexing:
- extension of object (P/R) indexes to obliques, sometimes mediated by applicativisation (e.g. Macedonian, Circassian, Wubuy, Quechuan);
- doubling by pronouns in oblique cases (e.g. Tabasaran, Pama-Nyungan);
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Extension of P/R indexes to obliques mediated by applicatives

Wubuy (aka Nunggubuyu, Gunwinyguan, Australia)

```
(16) ngarra-mani-nyung ngunu-yi-yarrbu-mana
F-woman-HUM.SG 3FSG>3MSG-face-wash-PRS
na-wulmurr-inyung ngarr-ibiyung-yungguyung
M-young.man-HUM.SG F-mother.PROP3-PURP
'The woman washes the boy on the face for his mother.'
(Horrack 2018: 153)
```

HUM – human, PROP – proprietive, PURP – purposive

Australia

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(Horrack 2018: 153)

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The beneficiary can be expressed by an adjunct in the purposive case

Australia

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```
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```

```
(17) ngarra-mani-nyung nguna-a-jaalibu-mana
F-woman-HUM.SG 3FSG>3MSG-APPL-cough-PRS
na-doctor-wuy / na-doctor-yungguyung
M-doctor-DAT / M-doctor-PURP
'The woman coughs for the doctor.' (Horrack 2018: 142)
```

APPL – applicative, DAT – dative, HUM – human, PURP – purposive



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In the applicative construction, the beneficiary is indexed and is either flagged by the dative case

h, PURP – purposive



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F-woman-HUM.SG 3FSG>3MSG-APPL-cough-PRS
na-doctor-wuy / na-doctor-yungguyung
M-doctor-DAT / M-doctor-PURP
'The woman coughs for the doctor.' (Horrack 2018: 142)
```

In the applicative construction, the beneficiary is indexed and is either flagged by the dative case or optionally retains the purposive case

h, PURP – purposive



Retention of flagging distinctions disambiguates semantic roles

Wubuy (aka Nunggubuyu, Gunwinyguan, Australia; ibid.)

```
(18) a. anaani ngana-a-jura-ngi ana-mamanunggu this 1>2PL-APPL-take-PC N.TOP-good ana-lhaawu nugurri-wuy
N.TOP-story 2PL-ALLAT
'We were taking these good news to you.'
```

nguna-a-gamaji na-wa<u>l</u>yi-nyung-gala 3FSG>3MSG-APPL-thieve/PC M-man-HUM.SG-ABL 'She was thieving from the man.'

ABL – ablative, ALLAT – allative, N – neuter, PC – past continuous, TOP – topic



Retention of flagging distinctions disambiguates semantic roles

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- (18) a. anaani ngana-a-jura-ngi ana-mamanunggu this 1>2PL-APPL-take-PC N.TOP-good ana-lhaawu nugurri-wuy
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  'We were taking these good news to you.'
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ABL – ablative, ALLAT – allative, N – neuter, PC – past continuous, TOP – topic

Doubling of discourse-prominent obliques with pronouns in oblique cases

- person agreement only with 1<sup>st</sup> and 2<sup>nd</sup> person arguments;
- obligatory for S/A, optional for other participants;
- agreement suffixes/enclitics are clearly related to various case forms of independent pronouns.

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- person agreement only with 1<sup>st</sup> and 2<sup>nd</sup> person arguments;
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- agreement suffixes/enclitics are transparently related to various case forms of independent pronouns.

Tabasaran (Nakh-Daghestanian > Lezgic; Russia, Bogomolova 2018: 825): partial paradigm of free pronouns and person indexes

case	free 2Sg	verbal index 2Sg
dative	uvu-z	=vu-z
apud(essive)	uvu-x	=vu-x
post(essive)	uvu-q	=vu-q
super(ess)	uvu-?in	=vu-?in
apudlative	uvu-x-na	=vu-x-na

 The pronominal doubling scenario is also applicable for some Australian languages (cf. Dixon 2004: 379-93; Mushin & Simpson 2008), however, in many of them free and bound pronouns are formally quite divergent.

- Incorporation of adpositions with indexes as "applicative complexes".
- In fact is difficult (if at all possible) to distinguish from pronominal doubling.

- Incorporation of adpositions with indexes as "applicative complexes".
- In fact, a combination of the two other scenarios.

Panará (Macro-Je > Je, Brasil; Bardagil-Mas 2018: 155):

(19) ka ka=ti=ra=kõõ=a=kwy tepi suu inkjẽ kõõ 2SG IRR=NSPK=1SG=COM=ADRE=go fish PUPR 1SG COM 'You'll go fishing with me.'

ADRE – addressee, COM – comitative, IRR – irrealis, NSPK – non-speaker, PURP – purposive

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'You'll go fishing with me.'
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The stem of the free pronoun has nothing in common with the verbal proniminal index

ADRE – addressee, COM – comitative, IRR – irrealis, NSPK – non-speaker, PURP – purposive

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The set of verbal indexes appearing before incorporated postpositions is identical to the S/P indexes

ADRE – addressee, COM – comitative, IRR – irrealis, NSPK – non-speaker, PURP – purposive

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## Roadmap

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- Discussion

- Indexing of obliquely-marked participants is an infrequent phenomenon, but it is attested in a considerable number of language families all over the world.
- Highly systematic in some languages (e.g. Pama-Nyungan, Manambu), clearly marginal in others (e.g. West Circassian, Yurakaré).
- Oblique indexing seems to be found across groups of closely related languages (e.g. Ngumpin-Yapa subgroup of Pama-Nyungan, Southern Quechua or Ethiosemitic) as well as to undergo areal spread (e.g. Northern Australia).

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- Like other types of indexing, oblique indexing tends to be systematically related to prominence hierarchies, being in most cases restricted to highly animate participants.
- This correlates well with the range of semantic roles particularly prone to oblique indexing, i.e. bene/maleficiary, animate location and comitative.

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- Oblique indexing can arise through distinct and crosslinguistically recurrent diachronic pathways, e.g.:
  - grammaticalisation of pronouns in oblique cases in constructions involving "doubling";
  - development of "non-promotional" uses of applicatives with concomitant extension of indexes from core to oblique arguments.

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  - grammaticalisation of pronouns in oblique cases in constructions involving "doubling";
  - development of "non-promotional" uses of applicatives with concomitant extension of indexes from core to oblique arguments.

 The phenomenon, which has been largely neglected by typologists, clearly deserves further typological and diachronic investigation.

# Thank you for your attention! Danke für Ihre Aufmerksamkeit!



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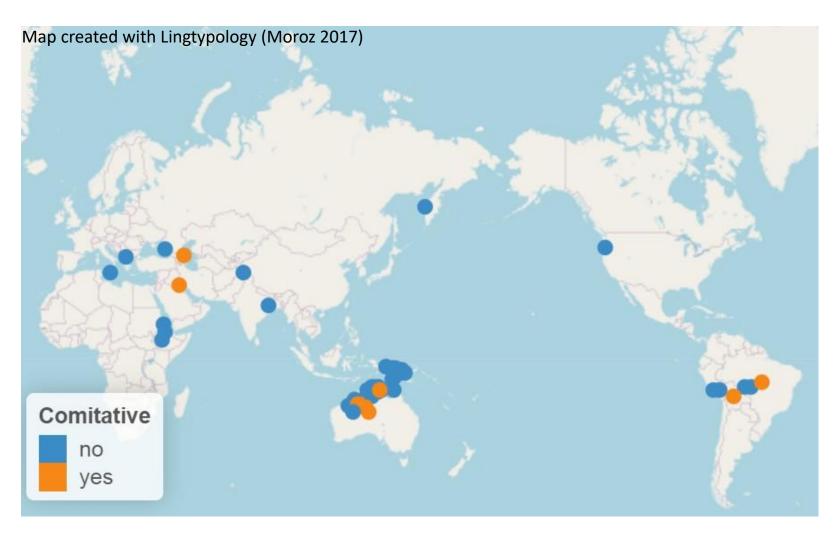
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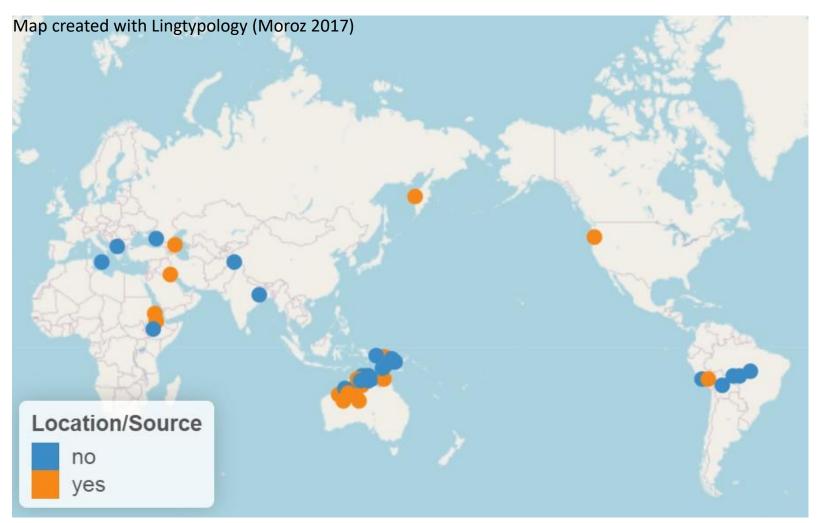
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# Appendix











Indexing of spatial roles is a salient feature of the Northern Australian languages

person

Tabasaran (Nakh-Daghestanian > Lezgic; Russia, Bogomolova 2012, 2018): only 1<sup>st</sup> and 2<sup>nd</sup> persons, and only if "the non-subject participant ... makes a significant contribution to the situation"

135

person

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- - b. žarκ χaz<sup>j</sup>ajin.ži-x-na
     run[IMP] landlord-APUD-LAT
     'Run to the landlord!' (Bogomolova 2012: 116)

person

Tabasaran (Nakh-Daghestanian > Lezgic; Russia, Bogomolova 2012, 2018): only 1<sup>st</sup> and 2<sup>nd</sup> persons, and only if "the non-subject participant ... makes a significant contribution to the situation"

- - b. ǯarʁ xaz¹ajin.ǯi-x-na run/IMP landlord-APUD-LAT 'Run to the landlord!' (Bogomolova 2012: 116)

animacy and humanness

In the Australian languages, indexing of oblique participants is largely restricted to animate or human referents (Ennever & Browne 2023: 6).

Extension of P/R-markers to obliques
 Nama (Yam > Nambu, Papua New Guinea; Siegel 2023)

(29) a. ghakr-am mèrès yè-frango-t-e
boy-ERG girl 3SG.ABS-leave-IPFV-2|3SG.A

b. *yèmo náifè y-a-ram Mawai-e*3SG.ERG knife 3SG.ABS-APP-give:INC.3SG.A Mawai-DAT
'He just gave Mawai the knife.' (p. 57)

c. ágha-f-e-t ne dog-PL-DAT-ALLAT gu 'I threw the guts to

Papua Niugini
Solomon
Islands

ABS – absoluti<del>ve, APP – applicative,</del> C

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  - b. *yèmo náifè y-a-ram Mawai-e* 3SG.ERG knife 3SG.ABS-APP-give:INC.3SG.A Mawai-DAT 'He just gave Mawai the knife.' (p. 57)
  - c. ágha-f-e-t ne e-wa-tárnan dog-PL-DAT-ALLAT guts 3NSG.ABS-APP-throw:CUR.1SG.A 'I threw the guts to/for the dogs.' (p. 75)

ABS – absolutive, APP – applicative, CUR – current tense, IPFV - imperfective

Extension of P/R-markers to obliques

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  - c. ágha-f-e-t ne e-wa-tárnan dog-PL-DAT-ALLAT guts 3NSG.ABS-APP-throw:CUR.1SG.A 'I threw the guts to/for the dogs.' (p. 75)

ABS – absolutive, APP – applicative, CUR – current tense, IPFV - imperfective

Extension of P/R-markers to obliques

Nama (Yam > Nambu, Papua New Guinea; Siegel 2023)

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