Indexing of oblique participants: a preliminary typology

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German Research Foundation

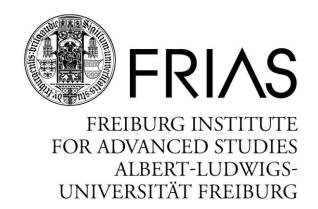
Acknowledgment

- 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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Acknowledgment

 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).



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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
- Still, indexing of obliquely-marked participants is attested across the languages of the world.

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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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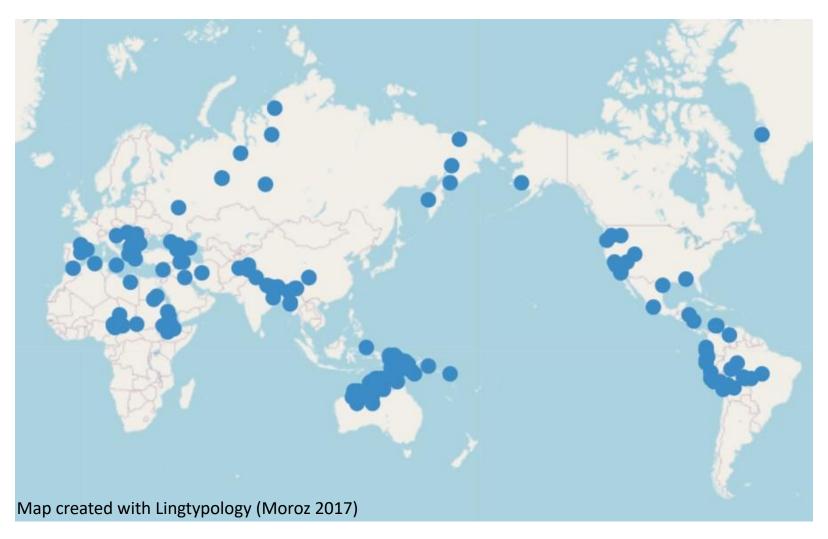
- a representative convenience sample of languages showing double-marking of at least some non-subject (S/A) participants;
- 188 languages from 72 families and 104 genera (including isolates);
- the sample in purposefully not genealogically stratified, in order to capture family-internal variation;
- for statistical purposes, families and genera will be counted (as many times as many types they represent).

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- in all macroareas, with a particularly high concentration in Australia and New Guinea

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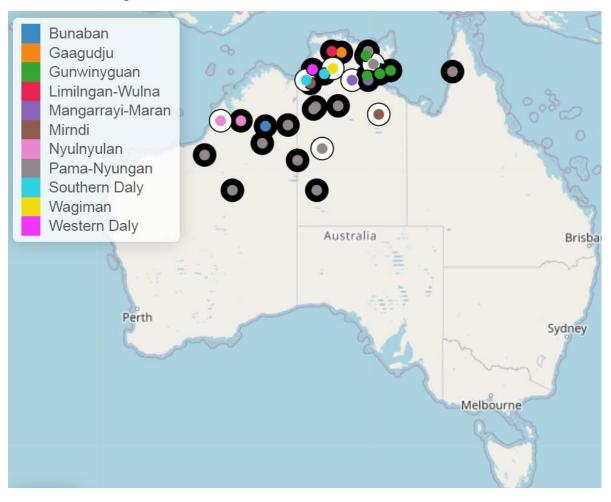
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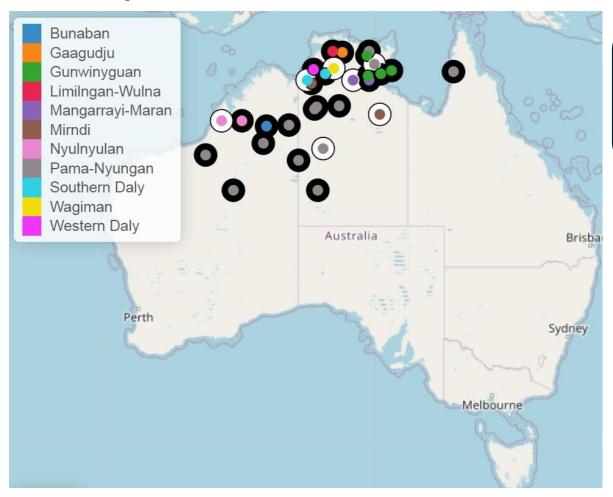
area	yes		no	
	languages	genera	languages	genera
Africa	3	1	16	8
Asia	4	4	36	12
Europe	4	4	13	8
Australia	23	13	7	7
Oceania	13	8	32	25
N.America	1	1	15	9
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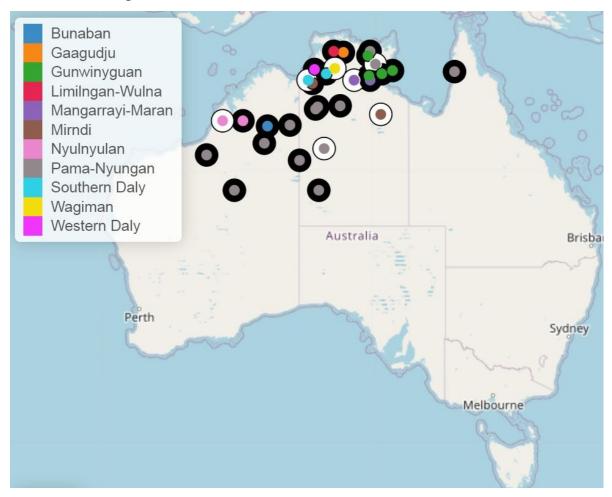




Gooniyandi Gaagudju Anindilyakwa Ngalakan Ngangi Wubuy Limilngan Mara Jaminjung Nyigina Bilinarra Djaru Djinang Gurindji Kuku Nganhcara Mudburra Ngardi Nyangumarta Pintupi Walmatjarri Wangkajunga Ngangityemerri Marithiel



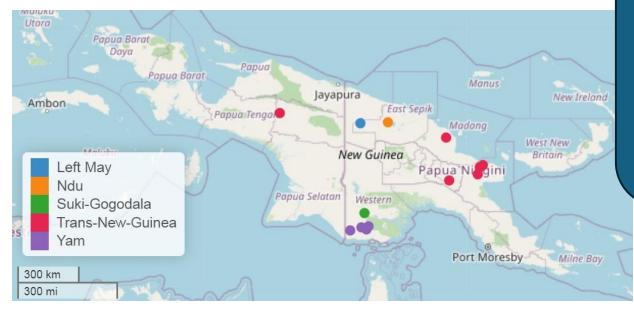
A clear areal feature transcending the borders of language families



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

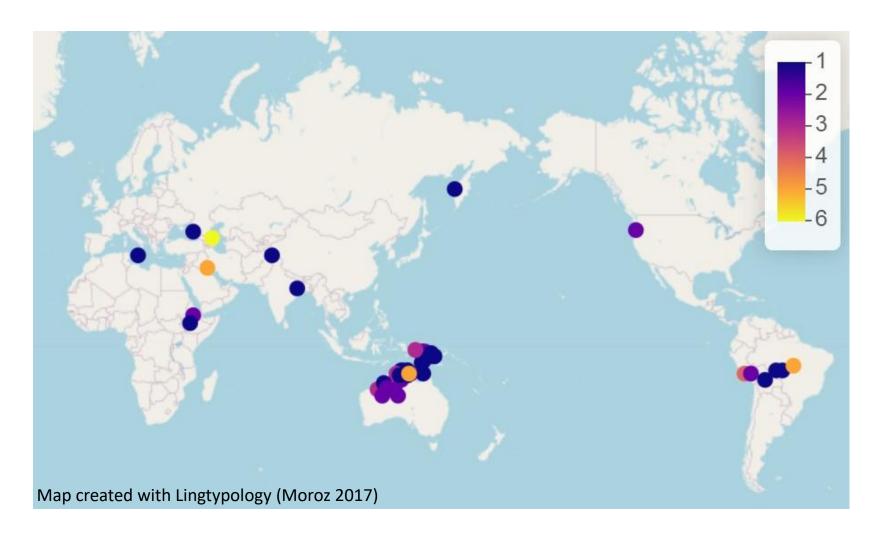


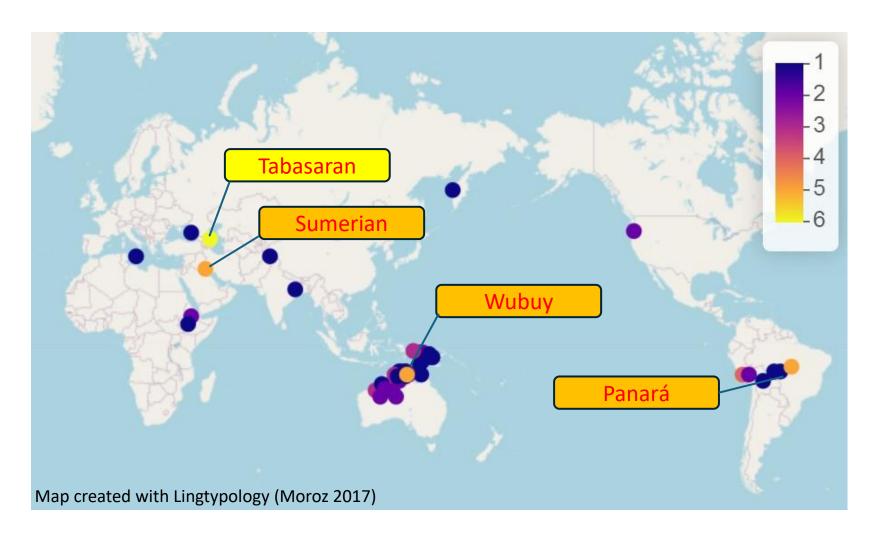


No clear areal
patterning in New
Guinea, but oblique
indexing is attested in
different families as
well as different
branches of the
Trans-New-Guinea
phylum

 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^r-ra=za=vu-x-na*. 1SG 2SG-APUD-LAT come-PRS=1SG.A-2SG-APUD-LAT 'I am going to you.' (Bogomolova 2018: 827)
 - baj izu-q^h hit'ik'-nu-zu-q^h.
 boy.ABS 1SG-POST hide-AOR-1SG-POST
 'The boy hid behind me.' (Kibrik & Seleznev 1982: 23)



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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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 - 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



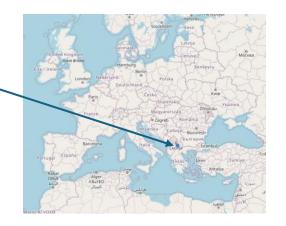


instrument

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



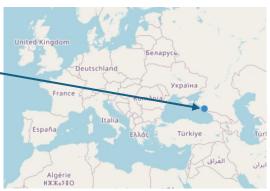
role	languages	genera
bene/maleficiary	38	23
goal	18	14
location	16	7
source	13	8
comitative	11	7
other	21	14

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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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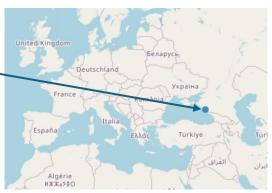
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The default encoding for a pronominal applicative object (if expressed at all) is the unmarked form of the pronoun

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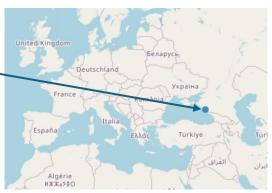
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BEN – benefactive, C
OBL – oblique case, F
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Elaborate marking by means of the purposive postposition is a rare option admittedly used for special emphasis; attested in texts but hardly mentioned in 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 1st and 2nd 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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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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 '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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• 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

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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)

HUM - human, PROP - proprietive,

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

Australia

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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



Extension of P/R indexes to obliques mediated by applicatives

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

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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



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Doubling of discourse-prominent obliques with pronouns in oblique cases

- person agreement only with 1st and 2nd 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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Doubling of discourse-prominent obliques with pronouns in oblique cases

- person agreement only with 1st and 2nd person arguments;
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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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'You'll go fishing with me.'
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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

Roadmap

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- 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";
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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!



- AdCorp = Arkhangelskiy T., I. Bagirokova, Y. Lander & A. Sorokina. 2018–2022. West Circassian (Adyghe) Corpus. http://adyghe.web-corpora.net/
- Aikhenvald A. Y. 2008. *The Manambu Language of East Sepik, Papua New Guinea*. Oxford: Oxford University Press.
- Aissen J. 2003. Differential object marking: Iconicity vs. economy. *Natural Language* and Linguistic Theory 21/3, 435–483.
- Amberber M. 2024. Applicativization in Amharic. In: F. Zuniga & D. Creissels (eds.), *Applicative Constructions in the World's Languages*, 243–278. Berlin, Boston: De Gruyter Mouton.
- Arkadiev P. 2011. Согласование с именной группой в периферийном падеже: опыт типологии [Agreement with noun phrases in oblique cases: towards a typology]. *Acta Linguistica Petropolitana* 7/3, 7–12.
- Arkadiev P. 2013. Double-marking of prominent objects: a cross-linguistic typology. Talk at the 10th Biennial Meeting of the Association for Linguistic Typology, Leipzig.
- Arkadiev P. 2016. Роли, иерархии и двойное маркирование объектов [Roles, hierarchies and the double-marking of objects]. *Vorposy jazykoznanija*, № 5, 7–48.

- Arkadiev P. 2024a. Differential double-marking of objects: Uralic and beyond. Talk at the Seminar "Current Topics in Uralic Studies and Linguistic Typology", University of Munich, 13 May 2024.
- Arkadiev P. 2024b. Case in head-marking languages: towards a comprehensive typology. Talk at the Linguistisches Kolloquium, University of Munich, 15 May 2024.
- Arkadiev P. 2024c. Double-marking of prominent objects cross-linguistically: patients, recipients and beyond. Talk at the Linguistischer Arbeitskreis, Cologne Center of Language Sciences, 27 November 2024.
- Bárány A., O. Bond & I. Nikolaeva (eds.). 2019. *Prominent Internal Possessors*. Oxford: Oxford University Press.
- Bardagil-Mas B. 2018. Case and Agreement in Panará. Utrecht: LOT Publications.
- Bobaljik J. D. & S. Wurmbrand. 2002. Notes on agreement in Itelmen. *Linguistic Discovery* 1/1. http://dx.doi.org/10.1349/PS1.1537-0852.A.21
- Bogomolova N. 2012. Личное согласование в табасаранском языке: концептуализатор и его адресат в структуре ситуации [Person agreement in Tabasaran: Conceptualiser and its addressee in event structure]. *Vorposy jazykoznanija*, 2012 № 4, 101–124.

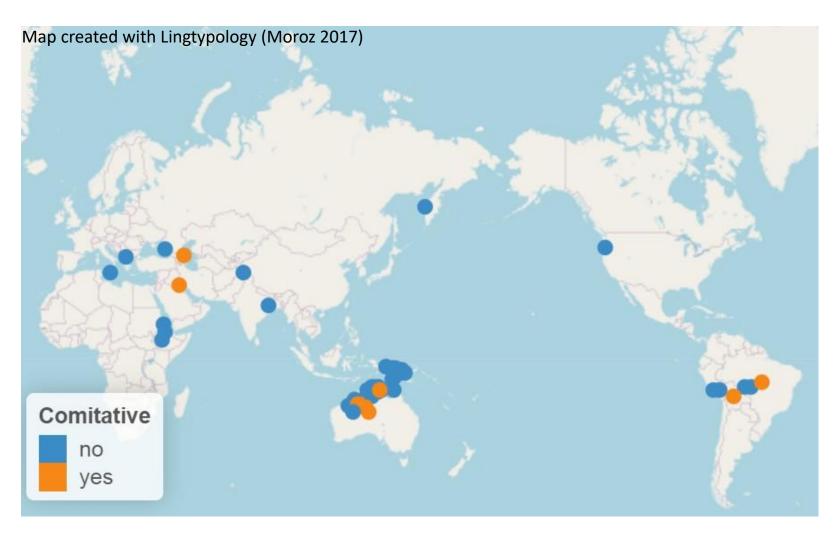
- Bogomolova N. 2018. The rise of person agreement in East Lezgic: Assessing the role of frequency. *Linguistics* 56/4, 819–844.
- Dixon R. M. W. 2004. *Australian Languages. Their Nature and Development*. Cambridge: Cambridge University Press.
- Ennever Th. & M. Browne. 2023. Cross-referencing of non-subject arguments in Pama-Nyungan languages. *Australian Journal of Linguistics* 43/1, 1–32.
- Haig G. 2018. The grammaticalization of object pronouns: Why differential object indexing is an attractor state. *Linguistics* 56/4, 781–818.
- Hansen K. C. & L.E. Hansen. 1975. *The Core of Pintupi Grammar*. Alice Springs: Institute of Aboriginal Development.
- Harris A. C. 1994. Ergative-to-Accusative shift in agreement: Tabassaran. In: H. I. Aronson (ed.), Linguistic Studies in the Non-Slavic Languages of the Commonwealth of Independent States and the Baltic Republics, 113–131. Chicago: Chicago Linguistic Society.
- Horrack K. 2018. *Argument Realisation in Wubuy*. PhD Dissertation, University of Melbourne.

- Iemmolo G. 2011. Towards a Typological Study of Differential Object Marking and Differential Object Indexation. PhD Dissertation, University of Pavia.
- Jagersma A. H. 2010. *A Descriptive Grammar of Sumerian*. PhD Dissertation, Leiden University.
- Just E. 2022. A Functional Approach to Differential Indexing. Combining Perspectives from Typology amd Corpus Linguistics. Amsterdam: LOT Publications.
- Kibrik A. E. & M. G. Seleznev. 1982. Синтаксис и морфология глагольного согласования в табасаранском языке [Syntax and morphology of verbal agreement in Tabasaran]. In: A. E. Kibrik (ed.), Табасаранские этюды [Tabasaran sketches], 17–33. Moscow: Moscow State University.
- Lander, Yury. 2015. Актанты и сирконстанты в морфологии и синтаксисе адыгейского языка [Arguments and adjuncts in morphology and syntax of West Circassian]. Vestnik RGGU: Istorija. Filologija. Kul'turologija. Vostokovedenie 1. 7–31.
- Leslau W. 1995. A Reference Grammar of Amharic. Wiesbaden: Harrassowitz.
- Lunt H. G. 1952. *Grammar of the Macedonian Literary Language*. Skopje: Državno knjigoizdatelstvo na NR Makedonija.

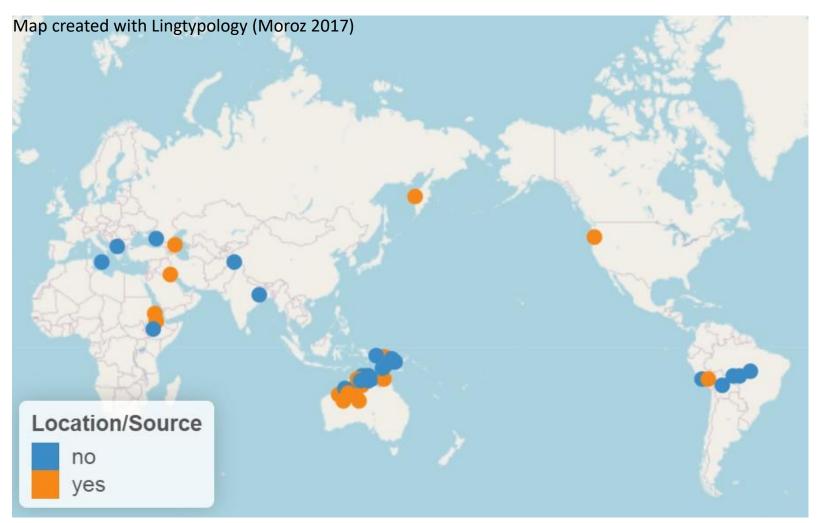
- Moroz G. 2017. lingtypology: easy mapping for Linguistic Typology. https://cran.r-project.org/package=lingtypology
- Mushin I. & J. Simpson. 2008. Free to bound to free? Interactions between pragmatics and syntax in the development of Australian pronominal systems. *Language* 84/3, 566–596.
- Parker G. 1969. Ayacucho Quechua Grammar and Dictionary. The Hague, Paris: Mouton.
- Nichols J. 1986. Head-marking and dependent-marking grammar. *Language* 62/1, 56–119.
- Scott Gr. 1978. *The Fore language of Papua New Guinea*. Canberra: Australian National University.
- Silverstein M. 1976. Hierarchy of features and ergativity. In: R. M. W. Dixon (ed.), Grammatical Categories in Australian Languages, 112–171. Canberra: Australian Institute of Aboriginal Studies.
- van Gijn R. 2005. Head marking and dependent marking of case relations in Yurakare. In: M. Amberber, H. de Hoop *Competition and Variation in Natural Languages: The Case for Case*, 41–72. Oxford, New York: Elsevier.

Appendix











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

person

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

135

person

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

- - b. žarκ χaz^jajin.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 1st and 2nd 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 – absolutive, APP – applicative, C

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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

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- (29) a. ghakr-am mèrès yè-frango-t-e boy-ERG girl 3SG.ABS-leave-IPFV-2|3SG.A 'The boy is leaving the girl.' (p. 30)
 - 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. <u>ágha-f-e-t</u> ne <u>e-wa-tárnan</u> dog-PL-DAT-ALLAT guts <u>3NSG.ABS-APP-throw:CUR.1SG.A</u> 'I threw the guts to/for the dogs.' (p. 75)

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

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