

Case-Marking Alignment in Kartvelian: An Insight from the BivalTyp Database Alexander Rostovtsev-Popiel (Mainz University)

Introduction (1) This presentation addresses case-marking alignment phenomena in Kartvelian in view of the methodological paradigm of BivalTyp (Say 2020-).

Introduction (2) The database features argument encoding patterns of predicates in a convenience sample of (currently) 136 languages.

Introduction (3) Data Subst examples by valency pattern. Subst examples by locus.

Introduction (4) The database has also proven to be an effective tool for the establishment of diverse visualizations that point at differences and similarities.

Preliminary Results (1) A cursory evaluation of what first met the eye in the case frame typology of Kartvelian was presented in (Rostovtsev-Popiel 2024):

Preliminary Results (2) Heterogeneity: Giorgi-s {G 3ayl-is / M 3oyor-(i)ša / L 3oyor-(i)šen / S žey-išd}

Preliminary Results (3) Reanalysis L šuše-Ø {did-Ø / ar lira-z} (r)en. cup-NOM big-NOM / one lira-DAT {is / costs}

This Study Focus on such domains of linguistic structure as "unanticipated" patterns in case-marking alignment in single languages (#60); language-specific and non-canonical, from what a Kartvelianist would "expect" from a Kartvelian language, wordings (#121); degrade of the "Kartvelian case frame model" (#25); specific patterns of relevant phraseology, detected e.g. in Laz; word-order constraints (i).

Examples #60 'X surrounds Y' K (G): NOM\_around.strikes.STAT\_DAT #121 'X wants Y' L: ERG\_looks.for\_NOM (instead of DAT\_NOM) #25 'X thinks about Y' L: ERG\_thinks\_NOM (i) Deviation from SOV: G: 2; M: 12; S: 2; L: 0 (per 130 stimuli)

Parameters The elicited data were processed with respect to the following three parameters: • Valency pattern (ERG\_NOM, NOM\_DAT, etc.); • Locus (TR / X / Y / XY), including "non-transitivity" rates; • Etymology of the predicates (2-1-1, 1-1-1-1, 3-1, etc.); • And cross-sections thereof.

"Non-Transitivity" against the Sample 1-2. Karata, Estonian 75% 3-6. Kandyk Tabasaran, Mehweb, Kina Rutul, Georgian 74% 7-10. Yargun Lezgian, Northern Akhvakh, Svan, Megrelian 73% 33-36. Lezgian, Turoyo, Kaytag Dargwa, Laz 66% 47-51. Guro, Azerbaijani, Kalderash Romani, Kumyk, Russian 58% 65-69. Tuvan, Erzya, Buriat, Macedonian, Turkish 53%

Locus Deviation on X against the Sample 1. Svan 23% 2. Archi, Megrelian 21% 4-6. Mehweb, Khwarshi, Georgian 20% 22-23. Yargun Lezgian, Laz 16% 72-89. Russian, Turkish... 5%

X Locus in Megrelian and Y Locus in Laz M čelo-s anučia-Ø gur-s giöxant'u(n) #129 PN-DAT PN-NOM heart-DAT is\_fond 'Chelo is fond of Anuchia.' L Kāzimi-k ayne t'elefon-i go(r)ums. #121 PN-ERG new telephone-NOM wants 'Kāzīm wants a new telephone.'

Locus Deviation on Y against the Sample 6-7. Ismayilli Kryz, Russian 52% 16-21. Udmurt, Ossetic, Czech, Ukrainian, Lithuanian, Georgian 49% 27-28. Modern Hebrew, Megrelian 47% 45-59. Uzbek, Mehweb, Shinaz and Southern Rutul, Svan 44% 50-57. Abaza, Lezgian, Buriat, Bulgarian, Kina Rutul, Mukhad Rutul, Kalderash Romani, Laz 43%

Y Locus in Svan #13 maizer-d gegi-s žaxc'inda. PN-ERG PN-DAT beat 'Maizer beat Gegi.' #48 maizer-Ø axne mankana-s iwdi. PN-NOM new car-DAT dreams 'Maizer dreams of a new car.'

Valency Pattern vs. Dominant Locus in Kartvelian (1) Core (out of 17 patterns identified) VP: 4-0 DL: TR 24 (18%) throw, take, bend... VP: 3-1 DL: Y 23 (18%) touch, catch up, follow... VP: 2-1-1 DL: Y 18 (14%) see, listen, trust... VP: 3-1 DL: X 14 (10%) forget, forfeit, miss...

Valency Pattern vs. Dominant Locus in Kartvelian (2) Periphery (out of 17 patterns identified) VP: 2-1-1 DL: TR 1 (1%) respect VP: 1-1-1-1 DL: TR 1 (1%) cross VP: 2-1-0 DL: Y 1 (1%) punish VP: 1-1-1-1 DL: XY 1 (1%) be afraid

Dominant Locus vs. Etymology in Kartvelian (1) Core (out of 15 patterns identified) DL: Y E: 1-1-1-1 37 (28%) see, wait, dream... DL: Y E: 2-1-1 19 (15%) win, fight, call... DL: TR E: 2-1-1 18 (14%) take, milk, fry... DL: X E: 2-1-1 17 (13%) need, hear, want...

Dominant Locus vs. Etymology in Kartvelian (2) Periphery (out of 15 patterns identified) DL: XY E: 2-1-1 1 (1%) be shy DL: XY E: 1-1-1-1 1 (1%) envy DL: X E: 2-1-1 1 (1%) feel pain DL: Y E: 2-1-1 1 (1%) trust

Valency Pattern vs. Etymology in Kartvelian (1) Core (out of 18 patterns identified) VP: 3-1 E: 2-1-1 24 (18%) lose, obey, cost... VP: 4-0 E: 2-1-1 20 (15%) tell, wave, plough... VP: 2-1-1 E: 1-1-1-1 16 (12%) see, flatter, agree... VP: 4-0 E: 1-1-1-1 13 (10%) throw, hold, bite...

Valency Pattern vs. Etymology in Kartvelian (2) Periphery (out of 18 patterns identified) VP: 2-1-1 E: 2-2 1 (1%) be shy VP: 2-1-1 E: 4-0 1 (1%) trust VP: 2-1-1 E: 3-1 1 (1%) fall in love VP: 1-1-1-1 E: 1-1-1-1 1 (1%) be afraid

Valency Pattern vs. Dominant Locus vs. Etymology in Kartvelian Quasi-Core (out of 37 patterns identified) VP: 2-1-1 DL: Y E: 1-1-1-1 13 (10%) agree... VP: 3-1 DL: Y E: 1-1-1-1 11 (8%) kiss... VP: 4-0 DL: TR E: 2-1-1 11 (8%) find... VP: 3-1 DL: X E: 2-1-1 10 (8%) want...

Hierarchical Clusters Based on Direct Pattern Equation

Neighornet Entropy in Kartvelian vs. Turkish (1) and against the Sample (2)

Neighornet Locus in Kartvelian vs. Turkish (1) and against the Sample (2)

Conclusions (1) (1)Viewed against the background of the whole BivalTyp sample, Kartvelian demonstrates an unexpectedly large number of deviations from the "canonical" valency pattern.

Conclusions (2) (2)Georgian, Megrelian, and Svan demonstrate a high degree of "non-transitivity" rates throughout the BivalTyp questionnaire, whereby Laz clearly inclines toward transitive treatment of the contexts examined. (3)Svan and Megrelian also top the list of X Locus deviation in BivalTyp with the rates of over 20%.

Conclusions (3) (4)In terms of Kartvelian lexicon, Laz proves to have retained the fewest number of "canonical" wordings (thus e.g. employing guri 'heart' in six collocations; and listen in place of agree, obey, and respect). (5)Examples of the reanalysis in Laz and Svan demonstrate that a change of valency pattern can affect the lexical semantics of the verb in a given instance.

Abbreviations ABL – ablative; ALL – allative; BEN – benefactive; DAT – dative; DL – dominant locus; E – etymology; ERG – ergative; G – Georgian; K – Kartvelian; L – Laz; L – locus; M – Megrelian; NOM – nominative; PN – person name; s – Svan; SOV – subject-object-verb; STAT – stative; TR – transitive; VP – valency pattern; X – first argument; Y – second argument.

References Rostovtsev-Popiel, Alexander. 2023. Bivalent Patterns in Georgian / Mingrelian / Laz / Svan, in: Say, Sergey (Ed.). BivalTyp: Typological Database of Bivalent Verbs and Their Encoding Frames (URL: https://www.bivaltyp.info/languages/listview/); Rostovtsev-Popiel, Alexander. 2024. Odnorodnost', raznorodnost' i pereosmyslenie: pervye zamečaniya po obrabotke kartvel'skogo materiala v baze BivalTyp [Homogeneity, Heterogeneity, and Reanalysis: First Remarks on the Processing of Kartvelian Data for the Database BivalTyp]. Izvestiia Rossijskoj Akademii Nauk 2: 64–71; Say, Sergey (Ed.). 2018. Valentnostnyye klassy dvuxmestnyx predikatov v raznostrukturyx jazykax [Bivalent Valency Classes in Structurally Diverse Languages]. St. Petersburg: ILS RAN; Say, Sergey (Ed.). 2020-. BivalTyp: Typological Database of Bivalent Verbs and Their Encoding Frames (URL: https://www.bivaltyp.info/).