George Moroz Olga Gich Anna Grishanova Natalia Koshelyuk Chiara Naccarato Anna Panova Anastasia Yakovleva Svetlana Zemicheva

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Precursors

Precursors of the project







Michael Daniel

- Multiple sociolinguistic expeditions to Daghestan
- Several dialect expeditions to Ustya

Precursors of the project







Michael Daniel

- Multiple sociolinguistic expeditions to Daghestan
- Several dialect expeditions to Ustya
- Online corpora available for everyone:
 - Corpus of Russian spoken in Daghestan
 - Ustja River Basin Corpus

Precursors of the project







Michael Daniel

- Multiple sociolinguistic expeditions to Daghestan
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- Online corpora available for everyone:
 - Corpus of Russian spoken in Daghestan
 - Ustja River Basin Corpus
 - ... and other bilingual and dialect corpora

Resources of the Linguistic Convergence Laboratory

- https://lingconlab.ru/
- 24 dialectal corpora
- 8 bilingual corpora

Precursors

Dialectal Corpora

Corpus of the Russian dialect spoken in Khislavichi district 260,793 tok.	the Russian dialect spoken in the villages of the Middle Pyoza 79,566 tok.	Russian spoken in Venigorod 8,324 tok. Luzhnikovo dialect the Russian spoken in Venigorod 43,270	tok. Corpus of the Russian dialect spoken in Popovka s of 36,617 tok.
Ústja River	the Russian dialect spoken in Nekhochi 88,965 tok.	58,666 tok. Corpus of the Rudialect Spoker village the Mil	s of Corpus of sissian the Russian dialect spoken s of in Keba ddle 54,535 tok.
Basin	the Russian dialect spoken in the village	Jpper Corpus Pinega and Spirido Pinega and Spirido Pinega and Spirido Buda dialect 70,803 tok. Corpus of	DNOVA the Russian dialect spoken in the villages of the Door fiver
Corpus	the Russian dialect spoken in Manturovo 113,837 tok.	Rogovatka dialect 100,047 tok	Shetnevo and Makeevo dialect
959,782 tok.	Lukh and Teza river basins dialects 146,350 tok.	the Russian dialect spoker in the village Malinino 138,943 tok.	the Russian

Precursors 00000000



Corpus of Russian spoken in Daghestan 376,717 tok. Corpus of Karelian Russian 578,646 tok. Khanty Russian Corpus 40.225 tok.

Corpus of Russian spoken in Chuvashia the Roma 46,307 tok. 41,767 tok.

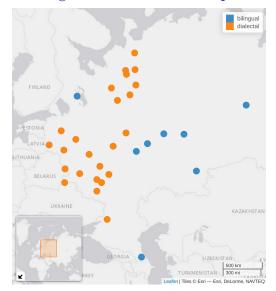
Corpus of Russian spoken by

Corpus of Russian spoken in Mari El 69,109 tok.

Corpus of Russian spoken in Bashkortostan 93.127 tok.

Corpus of Russian spoken by the Besermans 97,216 tok.

Bilingual and Dialectal Corpora



Can we analyze variation of linguistic features across all corpora?

Can we analyze variation of linguistic features across all corpora?

What are the factors that influence variation?

Can we analyze variation of linguistic features across all corpora?

What are the factors that influence variation? Can we find different variation patterns?

Previous publications

- Daghestanian Russian [Daniel et al., 2010, Panova and Philippova, 2021]
- Russian of Erzya speakers [Shagal, 2016]
- Russian of Kazakh speakers [Rakhilina and Kazkenova, 2018]
- Contact Russian of Northern Siberia and the Russian Far East [Stoynova, 2019, 2021]
- Russian of Moksha speakers [Kashkin, 2020]
- Russian of Hill Mari [Kashkin, 2022]
- Russian of Nganasan speakers [Khomchenkova, 2020]

The DiaL2 project

Precursors

The DiaL2 team









Maria Ermolova

Anna Grishanova

Natalia Koshelyuk

George Moroz







Chiara Naccarato

Anastasia Yakovleva

Svetlana Zemicheva

The DiaL2 pipeline

- collect all .eaf files
- extract transcriptions using the phonfieldwork R package [Moroz, 2023]
- use the udpipe package in order to gather morphological and syntactical annotation
- filter the result table for particular feature selected by a researcher
- annotate standardness of the utterances
- remove fully-standard speakers
- model the standardness of the utterances using sociolinguistic and linguistic features as predictors

The DiaL2 results

Some results

- Non-standard numeral constructions in L2 Russian
- Propositional Drop
- Propositional Drop in Chuvash
- Dialect Genitive Plural Forms of Masculine and Neuter Nouns in Numeral Constructions
- Negative Existential Constructions

Non-standard numeral constructions in L2 Russian



Chiara Naccarato



George Moroz

Non-standard numeral constructions in L2 Russian

- Variation in numeral constructions (NCs) in bilingual corpora
 - e.g. dva brat vs. dva brata
- Previous research on other L2 Russian varieties
 - Stoynova (2021) on Nanai and Ulcha Russian: evidence for pattern borrowing
- Also mentioned by
 - Shagal (2016: 369-370) for Erzya Russian
 - Rakhilina & Kazkenova (2018: 610) for Kazakh Russian

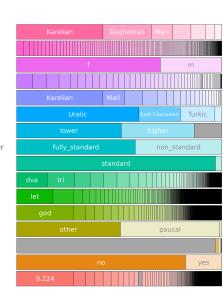
Research questions

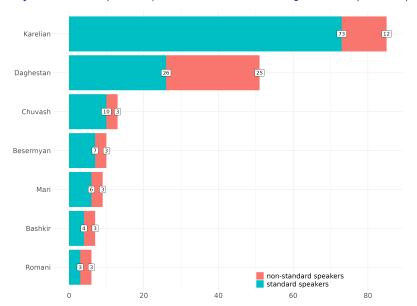
- Does the amount of variation in NCs differ across corpora and/or among speakers of the same variety?
- Can variation in NCs be explained in terms of contact influence?
- Do other factors promote or hinder variation in NCs?

The database and parameters of data annotation

4,144 observations

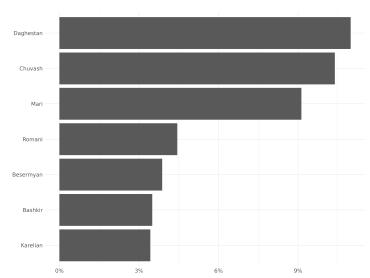
- (1.1) corpora: 7
- (1.2) speakers: 181
- (1.3) gender
- (1.4) year of birth
- (1.5) L1: 21
- (1.6) L1 family
- (1.7) education
- (1.8) standardness of the speaker
- (2.1) marking
- (2.2) numeral
- (2.3) noun token
- (2.4) noun lemma
- (2.5) numeral type
- (2.6) noun type
- (2.7) ambiguous
- (2.8) dice coefficient





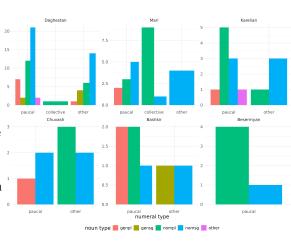
Proportion of non-standard occurrences per corpus

1,748 observations

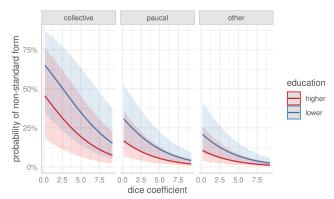


Distribution of n-std forms with different types of numerals

- NOM instead of GEN is frequent both with paucals and other numerals
- n-std GEN is attested sporadically
- other case forms are even less frequent
- only ~45% of n-std expressions could in principle be explained by L1 pattern borrowing



Statistical modelling



- Logistic regression: standardness ~ Dice coefficient + year of birth + education + numeral type + gender + (1|L1 family/speaker id)
- Conditional importance of the variables in our model (generalized R squared): collocationality (Dice coefficient) > education > year of birth > numeral type > gender

Conclusions

- Variation in NCs is attested in all L2 corpora, but not to the same extent in each of them
- Daghestanian Russian as a more uniform variety, probably due to a lower pervasiveness of Russian in every-day life, especially in the more isolated communities of the highlands
- The variables that turned out to be statistically significant are all logically related to L2 proficiency and exposure to the input, but there is no robust evidence for a contact explanation

Propositional Drop



Anastasia Yakovleva



Natalia Koshelyuk



George Moroz

Propositional Drop in Chuvash



Anna Grishanova

Dialect Genitive Plural Forms in Numeral Constructions



Svetlana Zemicheva



Chiara Naccarato



George Moroz

Motivation

- widespread feature
- was studied in standard Russian & bilingual varieties
- in standard Russian some special numerative forms tend to appear in numeral constructions (Kholodilova, forthcoming)
- dialect speech may be controversial to the tendencies observed in other colloquial varieties

Examples

- $Num(not-paucal)_{nom,acc,gen} + N_{m,n-Gen.Pl}$
 - pjat' xozjaev-ov (dial. five owner-Gen.Pl)
 - pjat' xozja-ev-Ø (stnd. five owner-Pl-Gen)
- $Num(paucal)_{acc,gen} + N_{m,n-Gen,Pl}$
 - tridcat-i dv-ux god-ov (dial. thirty-Gen two-Gen year-Gen.Pl)
 - tridcat-i dv-ux let-Ø (stnd. thirty-Gen two-Gen year-Gen.Pl)

Research questions

- What factors may affect the probability of use of dialect Gen.Pl forms in numeral constructions?
 - Overall frequency of dialect Gen.Pl in different contexts
 - Noun stem
 - Numeral-Noun collocationality level
 - Numeral form (Nom/Gen)
 - Year of birth
 - Education level
 - Gender
- Does dialect "overuse" [Kasatkin, 2005] of the -ov ending affect cases like *kilogram* vs *kilogram-ov*?

Does dialect "overuse" of the -ov ending affect measure words?

No

Does noun stem play a role?







Is education level significant?

Is the level of collocationality significant?

Is the numeral form significant?

Conclusions

- Dialect "overuse" of the -ov ending doesn't affect mesuare words: zero inflexion forms (kilogram) are found in more than 90% of contexts
- Early year of birth & low education level make the probability of using dialect Gen.Pl form higher
- 'The most frequent pairs survive' (Chiara): the probability of dialect form higher for nouns which often cooccur with numerals
- The type of noun stem seems to be significant
- Potential contact influence in the case of Spiridonova Buda? (Belorussian)
- The correlation between the frequency of dialect Gen.Pl forms in numeral constructions and other types of contexts is questionable

Negative Existential Constructions



Chiara Naccarato



George Moroz

Negative Existential Constructions

- Existential negation = negation strategies used in existential sentences of the type *there is/are no* X (*somewhere*), in which the subject is typically non-referential
- We use the terms "existential negation" and "negative existential constructions" (NECs) in a wider sense to include constructions that are sometimes referred to as "locative negation" (*X is/are not in some place*, in which X is a definite subject) and "possessive negation" (*Y does/do not have X*); cf. [Veselinova, 2013, 110–111]
- All of them predicate absolute absence rather than relative absence, and Russian employs one and the same strategy in all three cases, which is different from the strategy employed in standard negation, i.e. negation of overt verb predicates

Non-standard marking in NECs

 Variation in NECs in bilingual corpora (+ comparison with the monolinguals' variety of Russian spoken in Zvenigorod)

e.g. gaz ne bylo vs. gaza ne bylo

- Previous research on other L2 Russian varieties
 - Nanai and Ulcha Russian [Stoynova, 2019, 27]
 - Moksha Russian [Kashkin, 2020, 116]
 - Hill Mari Russian [Kashkin, 2022, 39]
- Usually treated as a contact phenomenon because in the Lis of Russian bilinguals who display this trait there is no genitive (or any other special) marking of negated subjects

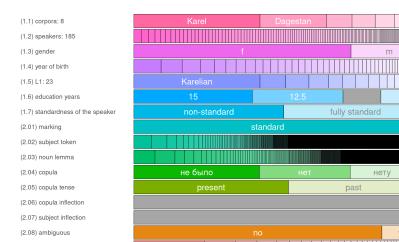
Research questions

- Does the amount of variation in NECs differ across corpora and/or among speakers of the same variety?
- Can variation in NECs be explained in terms of contact influence?
- Do other factors promote or hinder variation in NECs?

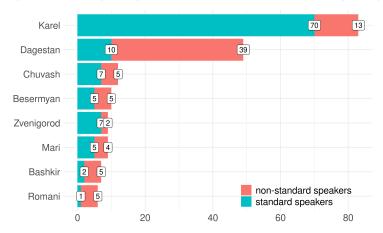
The database and parameters of data annotation

2,309 observations

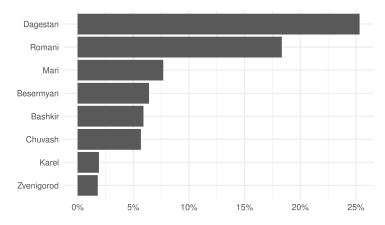
(2.09) lemma frequency



Fully standard (58%) vs. non-standard speakers (42%)



Proportion of non-standard occurrences per corpus



Types of non-standard marking

- Neuter copula
 - gaz ne bylo
- Non-neuter copula
 - dom<u>a</u> ne byl
- Agreeing subject (could be pattern borrowing for Daghestan)
 - bogatye ljudi ne byli



Preliminary conclusions

- Findings comparable to those obtained for NCs
- Variation attested in all L2 corpora, but not to the same extent in each of them
- Daghestan as a more uniform variety
- Not all cases of variation can be explained by contact

Sideproject

The DiaL2 sideproject







Olga Gich



George Moroz

Future plans

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