

# Advances in formal Slavic linguistics 2016

Edited by

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# Contents

<b>Preface</b>	<b>iii</b>
<b>1 Gender encoding on hybrid nouns in Bosnian/Croatian/Serbian: Experimental evidence from ellipsis</b>	
Andrew Murphy, Zorica Puškar & Matías Guzmán Naranjo	<b>1</b>
<b>Index</b>	<b>25</b>



# Preface

The present volume, *Advances in Formal Slavic Linguistics 2016*, marks a delectable double premiere: It initiates both the book series *Open Slavic Linguistics* as a whole, and its sub-series of collective volumes on formal Slavic linguistics.

*Open Slavic Linguistics* aims at publishing high quality books with a focus on Slavic languages on the empirical side, which at the same time reflect the state of the art and current developments in general linguistics. Its core principles are strict adherence to a genuine Open Access policy and to quality control through double-blind peer review. The series takes a broad linguistic perspective and invites monographs and topical collective volumes from virtually all subdisciplines. This may include theoretically oriented work on Slavic linguistic phenomena, advanced empirical/experimental work on Slavic languages, as well as handbooks, introductions and companions to the linguistic analysis of a given language. The defining characteristics of the series is that it seeks a solid grounding in up-to-date theoretical and empirical methods, fosters mutual understanding of linguists across object languages and subdisciplines, and seeks to contribute both to narrowly defined Slavic linguistics and to general linguistics and linguistic typology.

*Advances in Formal Slavic Linguistics 2016* presents a selection of high quality papers authored by young and senior linguists from around the world and contains both empirically oriented work, underpinned by up-to-date experimental methods, and more theoretically based contributions. The volume covers all major linguistic areas, including morphosyntax, semantics, pragmatics, phonology, and their mutual interfaces. The particular topics discussed range from argument structure, word order, case, agreement, tense, aspect, and the left clausal periphery to segmental phonology. The thematic breadth and analytical depth of the contributions reflect the vitality of the field of formal Slavic linguistics and testify to its relevance for the global linguistic endeavor.

Early versions of the papers included in this volume were presented at the conference on Formal Description of Slavic Languages 12 or at the satellite Workshop on Formal and Experimental Semantics and Pragmatics, which were held in Berlin on 7–10 December 2016 – the year referred to in the title of the volume. Half of the submitted abstracts made it into the 44 presentations of the

## *Preface*

conference. The 21 papers in the present volume were developed from these contributions in the course of a further thorough reviewing process. Neither the original conference nor the present volume would have been possible without the readiness of so many experts to devote their time and thoughts to the critical evaluation and helpful commenting of their colleagues' research papers. We wish to express our gratitude both to the 75 anonymous reviewers of the original conference abstracts, and to the more than 50 external reviewers for the present volume. Their commitment testifies to the liveliness and ambition of the field of Slavic linguistics. This book would have also been impossible without our student assistants, Bella Badt, Justina Bojarski, Andrei Koniaev and Jake Walsh, and the invaluable help of the Language Science Press editors Sebastian Nordhoff and Felix Kopecky. We gratefully acknowledge their efforts and support. Finally, we would like to acknowledge the authors themselves. Open Access publishing is a collective endeavor and we appreciate the authors' willingness to collaborate with us closely not just on linguistic and scientific issues, but also on editorial matters. We sincerely hope that the authors and readers of this volume will share our conviction that it has been worthwhile.

Denisa Lenertová, Roland Meyer, Radek Šimík & Luka Szucsich  
Berlin, 14 December 2018



## Chapter 1

# Gender encoding on hybrid nouns in Bosnian/Croatian/Serbian: Experimental evidence from ellipsis

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In this paper, we report the results of an experimental study on the possibility of gender mismatches with ellipsis of a particular type of hybrid nouns in Bosnian / Croatian / Serbian (henceforth: BCS). Using agreement mismatches under NP ellipsis as a diagnostic for gender feature specification of hybrid nouns, we show that these nouns disallow agreement mismatches under NP ellipsis if natural gender (and a presupposition that it introduces) is present either in the antecedent or the ellipsis site. We argue that natural gender feature (masculine in our study) can optionally be present on the hybrid noun, and that its inclusion in ellipsis contexts leads to a violation of the standard identity requirement between the antecedent and the ellipsis site, namely Merchant's (2001) e-GIVENNESS.

**Keywords:** gender features, ellipsis, agreement, mismatches

## 1 Introduction: Hybrid nouns in BCS

Hybrid nouns have been a challenge for theories of agreement and NP structure (see Corbett 1991; Wechsler & Zlatić 2003; Alsina & Arsenijević 2012b,a; Peset-

sky 2013; Kramer 2015; Landau 2016; Smith 2015; 2016; Arsenijević & Gračanin-Yuksek 2015; Despić 2017), as it seems that they can simultaneously bear two types of gender specification: (i) natural gender (reflecting the gender of the referent) and (ii) grammatical gender (assigned arbitrarily). In this paper, we focus only on the Class II hybrid nouns in BCS (ending in *-a*) which have grammatical feminine gender, but variable natural gender, which depends on the discourse referent.

Table 1: Some hybrid nouns in BCS

<i>-a</i>		<i>-ica</i>		<i>-(č)ina</i>	
<i>mušterija</i>	‘customer’	<i>varalica</i>	‘cheater’	<i>junačina</i>	‘great hero’
<i>budala</i>	‘fool’	<i>propalica</i>	‘loser, failure’	<i>dobričina</i>	‘very good person’
<i>sudija</i>	‘judge’	<i>pijanica</i>	‘drunkard’	<i>drugarčina</i>	‘a great friend’
<i>tužibaba</i>	‘telltale’	<i>spavalica</i>	‘sleeper’	<i>lažovčina</i>	‘a big liar’

For instance, with a masculine referent, the noun *mušterija* (‘customer’) can trigger either grammatical feminine (1a)/(1b) or natural masculine agreement (1c)/(1d) (subject to speaker variability).

- (1) a. Milan nam je nov-a mušterija.  
Milan us is new-F customer  
‘Milan is our new customer.’
- b. Nov-a mušterija je kupila jaknu.  
new-F customer is bought.F jacket.  
‘A new (male or female) customer bought a jacket.’
- c. % Milan nam je nov-i mušterija.  
Milan us is new-M customer  
‘Milan is our new customer.’
- d. % Nov-i mušterija je kupio jaknu.  
new-M customer is bought.M jacket.  
‘A new (male) customer bought a jacket.’

With female referents, however, such nouns can only trigger feminine agreement:

- (2) Marija nam je nov-a / \*nov-i mušterija.  
Marija us is new-F new-M customer  
‘Marija is our new customer.’

One could treat these as so-called “epicene” nouns of the type found e.g. in Brazilian Portuguese and Greek, which can be used with both masculine and feminine referents without change in form (Bobaljik & Zocca 2011; Merchant 2014; Kramer 2015). It has been proposed that such nouns are simply listed in the lexicon twice, each with a different gender feature (e.g. Merchant 2014: 19). However, such an approach to BCS hybrid nouns seems to be problematic, as there is evidence that these nouns can *simultaneously* bear natural and grammatical gender. For example, in (3) the adjective and determiner target different gender values of the noun, while (4) shows the same for the nominal modifier and the participle.<sup>1</sup>

- (3) ov-i            privatn-e        zanatlije  
these-M.PL private-F.PL artisan.PL  
'these private artisans' (Corbett 2006: 206)

- (4) Osm-a            budala je bio-Ø            mnogo kul tip ali su ga se  
eighth-F.SG fool.SG is been-M.SG very cool guy but are him REFL  
drugi malo plašili.<sup>2</sup>  
others little feared  
'The eighth fool was a very cool guy, but others were a bit afraid of him.'

These examples raise the question about the structural representation of such nouns: whether they do contain both types of gender feature simultaneously, and how exactly they should be represented. In what follows, we will answer these questions by using NP ellipsis as a diagnostic for the gender feature specification of BCS hybrid nouns.

---

<sup>1</sup>Relative pronouns can also show different gender values than the attributive modifiers of a hybrid noun, as shown in (i), obtained at <http://vukajlija.com/seoski-fudbalski-tim-iz-betonlige> <accessed 26.11.2016>.

- (i) Lokaln-a    pijanica, koj-i            je završio        sa igranjem fudbala...  
local-F.SG drunkard, who-M.SG is finished.M.SG with playing football  
'A local drunkard, who's finished playing football...'

However, as pointed out by a reviewer, whether the relative pronoun agrees directly with the hybrid noun, or whether agreement is more indirect (since we are dealing with a non-restrictive relative clause in which the relative pronoun is more akin to regular pronouns, c.f. de Vries 2006) is an issue that requires further investigation. See Arsenijević & Gračanin-Yuksek (2015) for further discussion on hybrid agreement with relative pronouns.

<sup>2</sup><http://magdajanjic.tumblr.com/post/85348961537/budala> <accessed 26.11.2016>.

## 2 Gender mismatches and NP ellipsis

There is a growing body of literature on the permissibility of gender mismatches under NP ellipsis (e.g. Nunes & Zocca 2010; Bobaljik & Zocca 2011; Merchant 2014; Sudo & Spathas 2016; Barrie 2016). Based on whether gender mismatches under NP ellipsis are allowed or not, previous literature has identified three classes of nouns. The first type are the TWO-WAY ALTERNATING NOUNS (henceforth: the *doctor-class*), where a masculine antecedent can license deletion of a noun with a feminine referent, and *vice versa*:

### (5) Two-way alternating nouns (*doctor-class*)

- a. O Petros ine kalos jatros, ala i Maria ine mia kakia ⟨jatros⟩.  
the Petros is good.M doctor but the Maria is a.F bad.F doctor  
'Petros is a good doctor, but Maria is a bad one.'
- b. I Maria ine kali jatros, ala o Petros ine enas kakos ⟨jatros⟩.  
the Maria is good.F doctor but the Petros is a.M bad.M doctor  
'Maria is a good doctor, but Petros is a bad one.'

(Greek; Merchant 2014: 15)

The second type are the NON-ALTERNATING NOUNS (henceforth: *brother-class*), which do not allow mismatches in either direction:

### (6) Non-alternating nouns (*brother-class*)

- a. \*O Petros ine kalos adherfos, ala i Maria ine mia kakia  
the Petros is good.M brother but the Maria is a.F bad.F  
⟨adherfi⟩.  
sister  
Intended: 'Petros is a good brother, but Maria is a bad one (sister).'
- b. \*I Maria ine kali adherfi, ala o Petros ine enas kakos  
the Maria is good.F sister but the Petros is a.M bad.M  
⟨adherfos⟩.  
brother  
Intended: 'Petros is a good brother, but Maria is a bad one (sister).'

(Greek; Merchant 2014: 12)

Finally, ONE-WAY ALTERNATING NOUNS (or the *actor-class*) allow a masculine noun to antecede an elided feminine noun (7a), but a mismatch in the opposite direction is ungrammatical (7b).

(7) **One-way alternating nouns** (*actor-class*)

- a. ? O Paulo é ator e a Fernanda também é ⟨atriz⟩.  
the Paulo is actor and the Fernanda also is actress  
‘Paulo is an actor and Fernanda is too.’
- b. \* A Fernanda é atriz e o Paulo também é ⟨ator⟩.  
the Fernanda is actress and the Paulo also is actor  
Intended: ‘Fernanda is an actress and Paulo is (an actor) too.’  
(Brazilian Portuguese; Bobaljik & Zocca 2011: 142)

With regard to their tolerance for gender mismatches, these three classes can be summarized as in Table 2:

Table 2: Classes of predicative nouns under ellipsis (cf. Bobaljik & Zocca 2011: 162)

Class	MASC antecedent	FEM antecedent	Type
	FEM ellipsis	MASC ellipsis	
<i>doctor-class</i>	✓	✓	Two-way alternating
<i>brother-class</i>	✗	✗	Non-alternating
<i>actor-class</i>	✓	✗	One-way alternating

We would expect that hybrid nouns in BCS pattern with one of these types. However, the additional complication with hybrid nouns is that there is evidence for the simultaneous presence of two gender features. Thus, we will try to gain some insight into their structure by testing the acceptability of gender mismatches with mismatched referents in either direction (8b)/(8c).

- (8) a. Milan mu je star-a mušterija, a Marija mu je nov-a ⟨mušt⟩.  
Milan him is old-F customer and Marija him is new-F cust.  
‘Milan is his old customer and Marija a new one.’
- b. ? Milan mu je star-i mušterija, a Marija mu je nov-a ⟨mušt⟩.  
Milan him is old-M customer and Marija him is new-F cust.  
‘Milan is his old customer and Marija a new one.’
- c. ? Marija mu je star-a mušterija, a Milan mu je nov-i ⟨mušt⟩.  
Marija him is old-F customer and Milan him is new-M cust.  
‘Marija is his old customer and Milan a new one.’

### 3 Experiment

The aim of the experiment was to discover whether an agreement mismatch was tolerated when masculine agreement was found either the antecedent (8b) or the ellipsis site (8c), i.e. whether the hybrid nouns under study were two-way alternating, one-way alternating, or allowed no alternation at all when the noun had natural masculine gender (indicated by the agreement on the adjective). Considering previous theories (Nunes & Zocca 2010; Bobaljik & Zocca 2011; Merchant 2014; Sudo & Spathas 2016), the (im)possibility of a mismatch should be an indicator of (i) the difference in the quality of gender features (i.e. differences in their semantics or morphosyntactic representation) and (ii) the licensing conditions on ellipsis (i.e. identity requirements between the antecedent and the ellipsis site). Finally, sentences in which both adjectives show feminine agreement, regardless of the gender of the subject, were expected to be grammatical, as the hybrid nouns in question have grammatical gender as a formal feature.

In order to verify the grammaticality of gender mismatches under NP ellipsis, we ran an online acceptability judgement study.<sup>3</sup> The experimental design involved the factors in (9). The first factor involves the type of agreement the adjective has with a masculine subject and has two levels (grammatical agreement MF vs. natural agreement MM) (9a), which should serve as an indicator of the type of gender on the hybrid noun (grammatical vs. natural). The second factor pertains to agreement with feminine subjects and has only a single level (FF, both grammatical and natural agreement) (9b). The final factor regards the position of the masculine referent and has two levels: in the first clause, or in the second clause (the one with NP ellipsis) (9c), which should indicate whether natural gender can function as an antecedent for ellipsis and whether it can be found in the ellipsis site. The  $2 \times 2 \times 1$  combination of factors in (9) yield the four experimental conditions in Table 3.

(9) **Factors** (manipulated within items)

- a. AGREEMENT WITH MASCULINE SUBJECT; two levels: grammatical (MF) and natural (MM)
- b. AGREEMENT WITH FEMININE SUBJECT; one level: FF
- c. CLAUSE; two levels: first and second

Some example test sentences for each condition are given below. Each contains two clauses coordinated by the conjunction *a* ‘and’ and an elided noun in the

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<sup>3</sup>For a detailed description of the design and for all the materials see <https://osf.io/r3npz>.

Table 3: Experimental conditions

Factors and levels				Conditions
	M.SUBJ.AGR	CLAUSE	F.SUBJ.AGR	
1	MF	first	FF	MFFF
2	MM	first	FF	MMFF
3	MF	second	FF	FFMF
4	MM	second	FF	FFMM

second conjunct. Sentences (10) and (12) were expected to be perceived as grammatical, while (11) and (13) were the relevant mismatching cases.

- (10) Jovan je redovn-a mušterija, a Milica povremen-a \_\_\_\_\_.  
 Jovan is regular-F customer and Milica occasional-F  
 ‘Jovan is a regular customer and Milica an occasional one.’ MFFF
- (11) Jovan je redovn-i mušterija, a Milica povremen-a \_\_\_\_\_.  
 Jovan is regular-M customer and Milica occasional-F  
 ‘Jovan is a regular customer and Milica an occasional one.’ MMFF
- (12) Milica je povremen-a mušterija, a Jovan redovn-a \_\_\_\_\_.  
 Milica is occasional-F customer and Jovan regular-F  
 ‘Milica is an occasional customer and Jovan a regular one.’ FFMF
- (13) Milica je povremen-a mušterija, a Jovan redovn-i \_\_\_\_\_.  
 Milica is occasional-F customer and Jovan regular-M  
 ‘Milica is an occasional customer and Jovan a regular one.’ FFMM

Since masculine agreement with hybrid nouns is not accepted by all speakers, a control sentence involved only masculine referents and agreement (i.e. the condition MMMM) (14).

- (14) Uroš je redovn-i mušterija, a Tomislav povremen-i \_\_\_\_\_.  
 Uroš is regular-M customer and Tomislav occasional-M  
 ‘Uroš is a regular customer and Tomislav an occasional one.’ MMMM

Furthermore, we included the following additional controls: a grammatical baseline with feminine agreement and all feminine referents FFFF (15), and an ungrammatical baseline FMFM, involving masculine agreement with feminine referents (16).

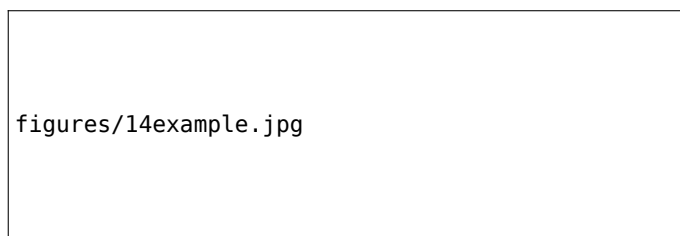


Figure 1: Example experimental item

- (15) Jelena je tešk-a do**br**ičina, a Ljubica umerenij-a \_\_\_\_\_.  
 Jelena is heavy-F good-person and Ljubica moderate-F  
 ‘Jelena is a really good person and Ljubica less of a one.’ FFFF
- (16) Stanislava je velik-i škrtica, a Dušanka darežljivij-i \_\_\_\_\_.  
 Stanislava is big-M scrooge and Dušanka more.generous-M  
 ‘Stanislava is a big scrooge and Dušanka a more generous one.’ FMFM

A total of 18 controls were included, 6 per combination (all of them the same in every list, see below). There were 96 test sentences altogether, with 24 sentences per condition. All lexical items were balanced for proper names (24 male, 24 female), adjectives (48) and hybrid nouns (6). We used a Latin square design where the 96 test sentences were distributed in 4 lists, such that each list contained different items for every condition. Each participant thus saw only items from one list, i.e. 24 test items, 6 items per condition. The experiment was coded using LimeSurvey<sup>4</sup> and run online via the LimeService platform. Sentences were presented one-by-one in a random order. Each participant saw 62 sentences (24 test items + 18 controls + 20 fillers) and was asked to give a grammaticality judgement on a 7-point Likert scale (1 = completely bad, 7 = sounds excellent) by dragging a centered slider either to the left or right to indicate their response (see Figure 1).

The experiment was performed by 164 volunteers, 131 female and 33 male, aged 16–66. Participants reportedly spoke different varieties of BCS: Bosnian (22 speakers), Croatian (5 speakers) and Serbian (136 speakers). None of the participants were paid or otherwise compensated for their participation.



figures/14mmm-resps-1.pdf

Figure 2: All responses by all participants.

figures/14all-resps.pdf

Figure 3: All responses by all participants according to whether the speaker liked or disliked the sentences in the MMMM condition.

## 4 Results

Figure 2 shows the distribution of responses under each condition from all participants for the baselines (first column) and our four experimental conditions (second and third column). The baselines show strong grammaticality effects: feminine agreement with feminine subjects was rated as grammatical, while masculine agreement was unacceptable. A u-shaped type of distribution for MMMM (masculine agreement with masculine subjects) suggests that although the majority of speakers dispreferred it, some speakers clearly did find it grammatical. With mismatching subjects, feminine agreement (FFMF and MFFF) was rated as grammatical, as shown in the second column. More gradient (un)acceptability was found for FFMM and MMFF (third column).

We compared the responses for all conditions based on whether speakers liked the MMMM combination (median rating  $\geq 4$ ) or disliked it (Figure 3). In total, 51 speakers found the MMMM combination grammatical. The overall picture shows that the distributions concerning the grammatical patterns are fundamentally the same, regardless of whether the speaker liked MMMM or not (the first two rows). However, there was in fact a difference for conditions with low acceptability scores (FFMM and MMFF), as it can be seen in the final row of Figure 3. Speakers who liked MMMM showed no clear preference or dispreference for either of the mismatching combinations – they were perceived as equally bad.

Figure 4 shows the four crucial conditions just for those speakers who rated the MMMM baseline higher than 4. We see that the patterns with feminine agreement throughout were overwhelmingly acceptable and grammatical to these speakers, while the conditions with mismatches show more variation and received comparably lower scores.

To clarify whether the differences in these responses were statistically significant, we fitted an ordinal regression model with only condition as a dependent variable, and participant and hybrid\_noun as random effects (see the Appendix for further details about the model).<sup>5</sup>

As the plot in Figure 5 shows, the factors with overlapping confidence intervals are not statistically different from each other. We see that FFMF and MFFF slightly overlap with 0, which means that they are not statistically different from the intercept (the grammatical baseline FFFF). On the other hand, FFMM and MMFF

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<sup>4</sup><https://limesurvey.org>

<sup>5</sup>Ordinal regression assumes an ordered discrete response variable. This is exactly the kind of data one obtains from grammaticality judgement tasks. In the models, gender and region did not play a role.

are statistically worse than the intercept, but not different from each other or the ungrammatical baseline FMFM.

The conclusion we can draw from this is that gender mismatches are possible in either direction as long as the adjectival agreement is feminine. This is shown in (17) and (18).

(17) **Two-way mismatches possible with feminine agreement**

- a. Jovan je redovn-a mušterija, a Milica povremen-a ⟨mušterija⟩.  
Jovan is regular-F customer and Milica occasional-F customer  
'Jovan is a regular customer and Milica an occasional one.' MFFF
- b. Milica je povremen-a mušterija, a Jovan redovn-a ⟨mušterija⟩.  
Milica is occasional-F customer and Jovan regular-F customer  
'Milica is an occasional customer and Jovan a regular one.' FFMF

(18) **No mismatch possible with masculine agreement**

- a. \* Milica je povremen-a mušterija, a Jovan redovn-i ⟨mušterija⟩.  
Milica is occasional-F customer and Jovan regular-M customer  
'Milica is an occasional customer and Jovan a regular one.' FMMM
- b. \* Jovan je redovn-i mušterija, a Milica povremen-a ⟨mušterija⟩.  
Jovan is regular-M customer and Milica occasional-F customer  
'Jovan is a regular customer and Milica an occasional one.' MMFF

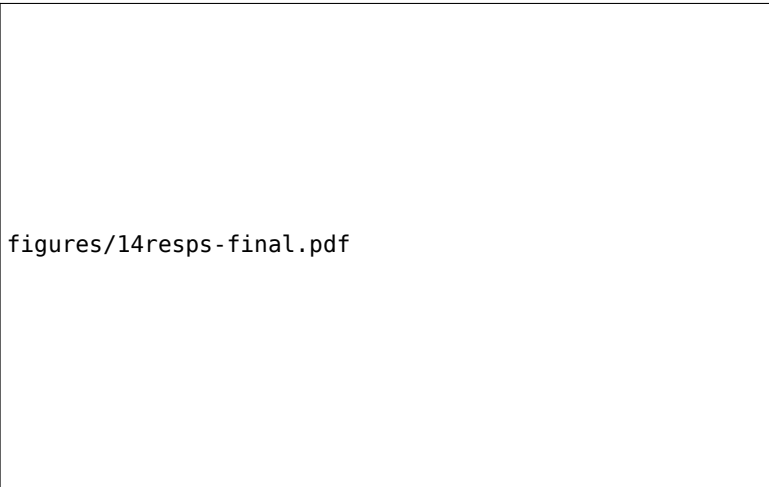


Figure 4: Responses by participants who liked MMMM (median rating  $\geq 4$ )

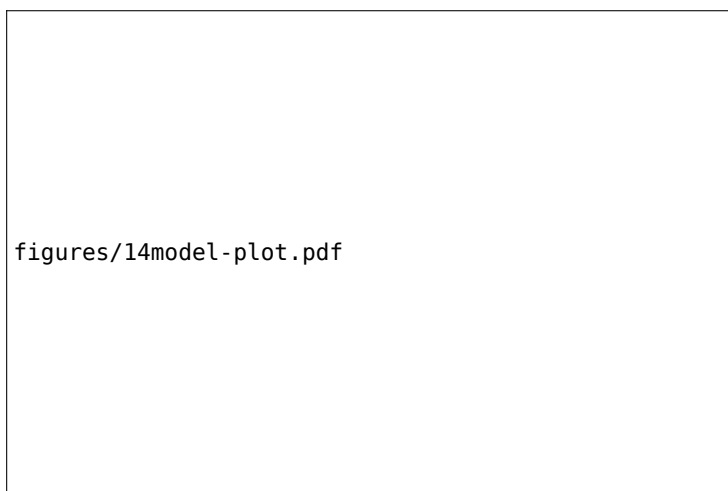


Figure 5: Posterior means and 95% confidence intervals for the Bayesian regression model.

Thus, with regard to the noun classes in Table 2, our hybrid nouns behave like nouns of the two-way alternating *actor*-class when there is agreement in grammatical gender (feminine), but they behave like non-alternating nouns of the *brother*-class if at least one of them bears natural gender (masculine).

## 5 Analysis

First, let us assume that the identity requirement for elided material involves Merchant’s (2001) e-GIVENNESS (i.e. mutual entailment), as defined in (19), where existential ( $\exists$ )-type shifting is “a type-shifting operation that raises the expressions of type  $t$  and existentially binds unfilled arguments” while F-closure of  $\alpha$  “is the result of replacing F-marked parts of  $\alpha$  with  $\exists$ -bound variables of the appropriate type (modulo  $\exists$ -type shifting)” (Merchant 2001: 14):

(19) **e-GIVENNESS** (Merchant 2001: 26)

An expression E counts as e-GIVEN iff E has a salient antecedent A and, modulo  $\exists$ -type shifting,

- (i) A entails F-clo(E), and
- (ii) E entails F-clo(A).

This condition requires that mutual entailment holds between the antecedent and the ellipsis site. This prevents semantically-equivalent, non-matching ellipsis sites (20b) Merchant (2001: 27).

- (20) a. Abby *called Ben an idiot* after Mary did  $\langle$ call Ben an idiot $\rangle$ .  
 $(\exists x . x \text{ called Ben an idiot} \leftrightarrow \exists x . x \text{ called Ben an idiot})$   
 b. # Abby *called Ben an idiot* after Mary did  $\langle$ insult Ben $\rangle$ .  
 $(\exists x . x \text{ called Ben an idiot} \leftrightarrow \exists x . x \text{ insulted Ben})$

Following Cooper (1983), it is often assumed that (natural) gender features can introduce presuppositions (also see Sauerland 2003; 2008; Heim 2008; Kratzer 2009; Spathas 2010; Sudo 2012). In Greek, non-alternating nouns of the *brother*-class have been claimed to contain a presupposition about gender of the referent (21) (Merchant 2014: 19, Sudo & Spathas 2016: 715).

- (21) a.  $\llbracket \text{adherfos} \rrbracket = \lambda x_e : \text{MALE}(x) . \text{SIBLING}(x)$   
 b.  $\llbracket \text{adherfi} \rrbracket = \lambda x_e : \text{FEMALE}(x) . \text{SIBLING}(x)$
- (22) a. \*O Petros ine kalos adherfos, ala i Maria ine mia kakia  
 the Petros is good.M brother but the Maria is a.F bad.F  
 $\langle$ adherfi $\rangle$ .  
 sister  
 Intended: ‘Petros is a good brother, but Maria is a bad one (sister).’  
 b. \*I Maria ine kali adherfi, ala o Petros ine enes kakos  
 the Maria is good.F sister but the Petros is a.M bad.M  
 $\langle$ adherfos $\rangle$ .  
 brother  
 Intended: ‘Petros is a good brother, but Maria is a bad one (sister).’  
 (Greek; Merchant 2014: 12)

The elided and antecedent noun have conflicting gender presuppositions, not mutually-entailing:

- (23)  $\exists x : \text{MALE}(x) . \text{SIBLING}(x) \leftrightarrow \exists x : \text{FEMALE}(x) . \text{SIBLING}(x)$

In the analysis of two-way alternating “epicene” nouns, however, it is often assumed that they do not contain any lexical presuppositions about gender (24), and thus ellipsis is licensed (26).

- (24)  $\llbracket \text{jatros} \rrbracket = \lambda x_e . \text{DOCTOR}(x)$

- (25) a. O Petros ine kalos jatros, ala i Maria ine mia kakia ⟨jatros⟩.  
the Petros is good.M doctor but the Maria is a.F bad.F doctor  
‘Petros is a good doctor, but Maria is a bad one.’  
b. I Maria ine kali jatros, ala o Petros ine enas kakos ⟨jatros⟩.  
the Maria is good.F doctor but the Petros is a.M bad.M doctor  
‘Maria is a good doctor, but Petros is a bad one.’  
(Greek; Merchant 2014: 15)

$$(26) \quad \exists x. \text{DOCTOR}(x) \leftrightarrow \exists x. \text{DOCTOR}(x)$$

If we adopt a similar approach for hybrid nouns in BCS, then hybrid nouns agreeing in grammatical gender (feminine) do not contain any presupposition about gender, while the hybrid nouns that agree in natural gender (masculine) should have an additional gender presupposition. Assuming that the grammatical feminine gender of hybrid nouns does not contribute any gender presupposition, this would make it compatible with male and female referents:

$$(27) \quad \llbracket n_{[F]} \rrbracket = \lambda P \lambda x. P(x)$$

For masculine-agreeing hybrid nouns, let us assume that the denotation of natural gender is a partial identity function restricting the set of customers to the set of male customers (Cooper 1983).

$$(28) \quad \llbracket n_{[M]} \rrbracket = \lambda P \lambda x : \text{MALE}(x). P(x)$$

The introduction of a gender presupposition with masculine agreeing hybrid nouns makes them incompatible with female referents.<sup>6</sup>

- (29) a. Marija nam je nov-a mušterija.  
Marija us is new-F customer  
‘Marija is our new customer.’  
b. \* Marija nam je nov-i mušterija.  
Marija us is new-M customer  
‘Marija is our new customer.’
- (30)  $\llbracket \text{novi mušterija} \rrbracket = \lambda x. \text{CUSTOMER}(x)$ , defined only if  $x$  is male  
a.  $\llbracket (29a) \rrbracket = \text{CUSTOMER}(\text{MARIJA})$

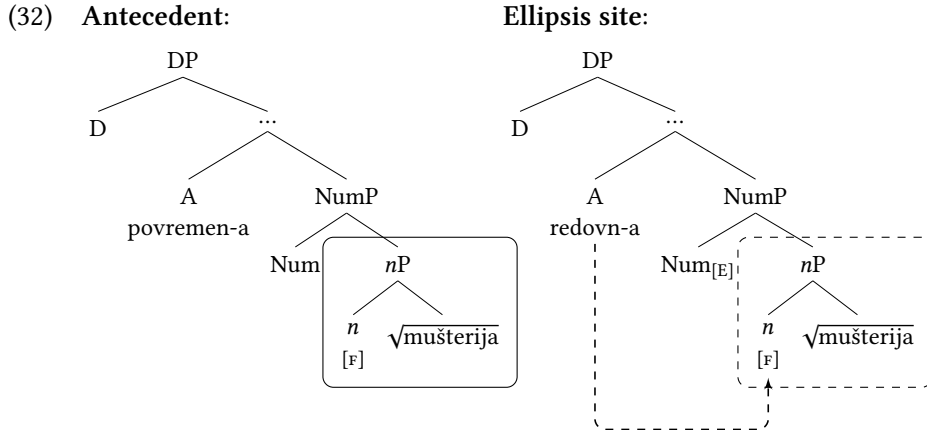
<sup>6</sup>While other theories rule out such examples based on competition with the feminine agreeing form (e.g. Maximize Presupposition; Bobaljik & Zocca 2011: 148f. or Principle of Gender Competition; Sudo & Spathas 2016: 722), we argue that the syntactic presence of both features is necessary based on instances of mixed agreement, such as (3).

- b.  $\llbracket (29b) \rrbracket = \text{CUSTOMER}(\text{MARIJA})$ , defined only if Marija is male  
(presupposition failure!)

Returning to gender mismatches under ellipsis, in an example such as (31), involving feminine agreement in both clauses, both instances of *mušterija* will lack natural gender feature and the corresponding presupposition.

- (31) Milica je povremen-a mušterija, a Jovan redovn-a  $\langle \text{mušterija} \rangle$ .  
Milica is occasional-F customer and Jovan regular-F customer  
‘Milica is an occasional customer and Jovan a regular one.’ FFMF

In order to analyze the ellipsis patterns, we adopt the assumptions of Distributed Morphology that nouns are built up from a category neutral root and a head  $n$  that categorizes this root as nominal (Halle & Marantz 1993; Harley & Noyer 1999; Kihm 2005; Acquaviva 2009; Kramer 2015). Following Kramer (2015), we will treat gender for now as a feature introduced by  $n$  (although see below for more detail about the different possibilities of simultaneous separate structural encoding of natural and grammatical gender on hybrid nouns). We assume further that number features of nouns are introduced on a NumP. These assumptions yield the structure for (31) as given in (32), where ellipsis is triggered by an [E] feature on Num (e.g. Merchant 2014; Saab & Lipták 2016; Saab 2019).



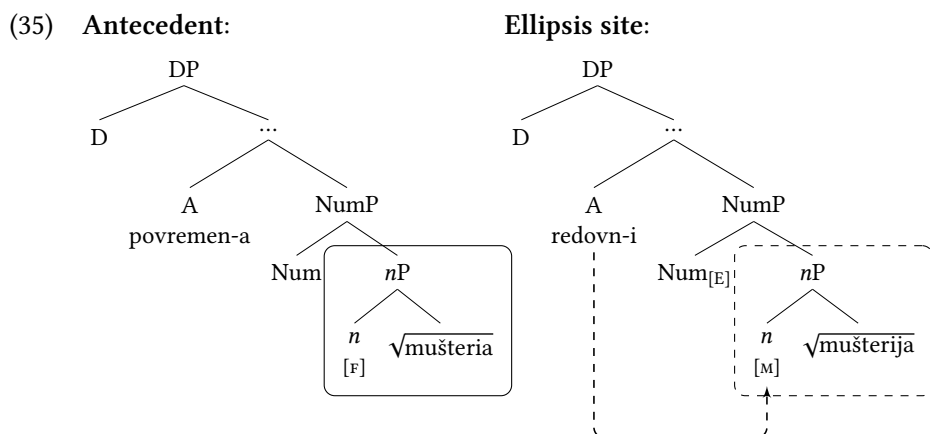
Importantly, from the point of view of the e-GIVENNESS condition in (19), mutual entailment is trivially satisfied since the elided material is identical.

$$(33) \quad \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ n_{[F]} \quad \sqrt{\text{mušterija}} \end{array} \right] \leftrightarrow \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ n_{[F]} \quad \sqrt{\text{mušterija}} \end{array} \right]$$

$\exists x . \text{CUSTOMER}(x)$                        $\exists x . \text{CUSTOMER}(x)$

However, as soon as we have masculine agreement on one of the conjuncts, we necessarily have the relevant natural gender feature  $[M]$  of the referent, making the ellipsis unacceptable (34). The relevant structure, demonstrating the lack of feature identity, is given in (35).

- (34) \* Milica je povremen-a mušterija, a Jovan redovn-i <mušterija>.  
 Milica is occasional-F customer and Jovan regular-M customer  
 ‘Milica is an occasional customer and Jovan a regular one.’ FFMM



Recall that the masculine feature also introduces the presupposition that the referent is male. If there is no corresponding feature in the antecedent, then e-GIVENNESS is violated because there being a customer does not entail there being a male customer:

$$(36) \quad \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ n_{[F]} \quad \sqrt{\text{mušterija}} \end{array} \right] \nrightarrow \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ n_{[M]} \quad \sqrt{\text{mušterija}} \end{array} \right]$$

$\exists x . \text{CUSTOMER}(x)$                        $\exists x : \text{MALE}(x) . \text{CUSTOMER}(x)$

The same situation holds if masculine agreement obtains in the antecedent:



- (37) \* Jovan je redovn-i mušterija, a Milica povremen-a ⟨mušterija⟩.  
 Jovan is regular-M customer but Milica occasional-F customer  
 ‘Jovan is a regular customer and Milica an occasional one.’ MMFF

Since *mutual* entailment is required, the existence of masculine gender at only one of the conjuncts results in ungrammaticality, since the e-GIVENNESS requirement is not met.

$$(38) \quad \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ \begin{array}{c} n \\ [M] \end{array} \quad \sqrt{\text{mušterija}} \end{array} \right] \quad \nleftrightarrow \quad \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ \begin{array}{c} n \\ [F] \end{array} \quad \sqrt{\text{mušterija}} \end{array} \right]$$

$$\exists x : \text{MALE}(x) . \text{CUSTOMER}(x) \qquad \exists x . \text{CUSTOMER}(x)$$

This accounts for why mismatches in referent gender are not tolerated if the adjective agrees in masculine in one conjunct only. As we expect, if we have two masculine referents (39), then mutual entailment is restored (40).

- (39) Uroš je redovn-i mušterija, a Tomislav povremen-i ⟨mušterija⟩.  
 Uroš is regular-M customer and Tomislav occasional-M customer  
 ‘Uroš is a regular customer and Tomislav an occasional one.’ MMMM

$$(40) \quad \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ \begin{array}{c} n \\ [M] \end{array} \quad \sqrt{\text{mušterija}} \end{array} \right] \quad \leftrightarrow \quad \left[ \begin{array}{c} nP \\ \swarrow \quad \searrow \\ \begin{array}{c} n \\ [M] \end{array} \quad \sqrt{\text{mušterija}} \end{array} \right]$$

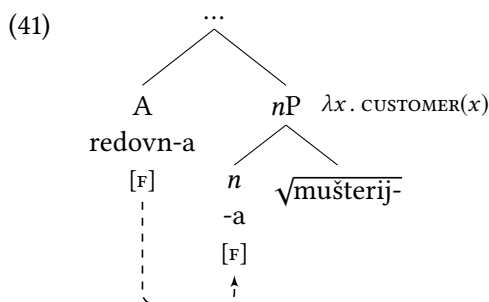
$$\exists x : \text{MALE}(x) . \text{CUSTOMER}(x) \qquad \exists x : \text{MALE}(x) . \text{CUSTOMER}(x)$$

Exactly why masculine agreement with hybrid nouns (39) is not possible for all speakers is an open issue, and we suggest it could be due to not all speakers having the variant of *n* containing the additional [M] feature. We leave further examination of interspeaker variation to future research.

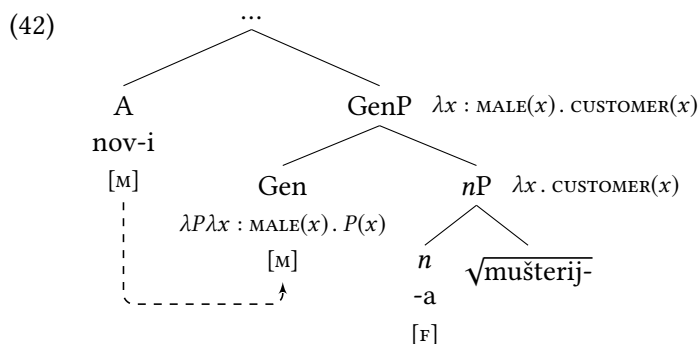
## 5.1 The encoding of natural and grammatical gender features

Since the nouns addressed in this paper have the possibility to simultaneously encode both the grammatical feminine and the natural masculine gender (as illustrated by (3), see also Wechsler & Zlatić 2003; Despić 2017; Puškar 2017), a question that remains open is where exactly these features are encoded in the DP structure.

Some accounts (Matushansky 2013; Pesetsky 2013; Landau 2016) assume grammatical gender to be encoded low in the noun's structure, as a property related to the nominal stem. Natural gender is optionally introduced on a higher functional projection. Under this approach, we would treat the grammatical feminine gender of our hybrid nouns as a property of  $n$ , while natural gender would be introduced at a higher functional projection (e.g. GenP, cf. Picallo 1991). The lower gender would not introduce any gender presuppositions, while the denotation of the gender on Gen would be a partial identity function restricting the set of customers to the set of male customers (Cooper 1983). If the male-referring hybrid noun triggers feminine agreement, adjectival concord then targets the grammatical gender feature on  $n$  (41).



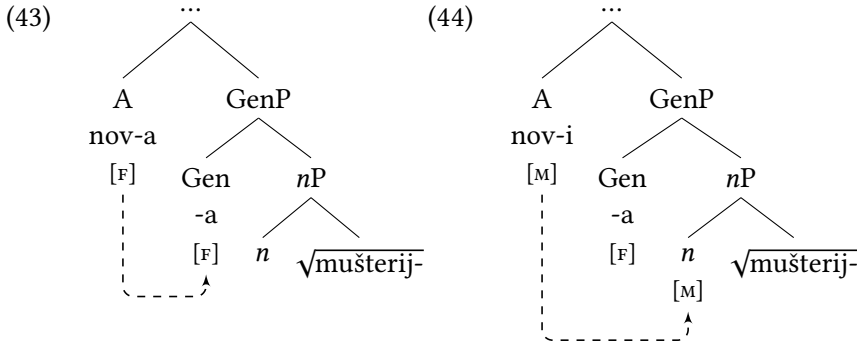
For masculine-agreeing hybrid nouns, the closest target for Agree will be the higher masculine gender (42).



$$\begin{aligned}
 \llbracket nP \rrbracket &= \lambda x . \text{CUSTOMER}(x) \\
 \llbracket \text{GenP} \rrbracket &= \llbracket \text{Gen} \rrbracket (\llbracket nP \rrbracket) \\
 &= [\lambda P \lambda x : \text{MALE}(x) . P(x)] (\lambda x . \text{CUSTOMER}(x)) \\
 &= \lambda x : \text{MALE}(x) . [\lambda x' . \text{CUSTOMER}(x')](x) \\
 &= \lambda x : \text{MALE}(x) . \text{CUSTOMER}(x)
 \end{aligned}$$

Ellipsis would be licensed if neither the antecedent nor the elided noun project the GenP, or if both of them do. The existence of GenP and the masculine feature in either the antecedent or the ellipsis site would lead to a lack of mutual entailment and the concomitant impossibility of ellipsis, in the manner proposed above.

Another theoretical option would be to make the GenP the locus of grammatical gender, and the *n* of the natural one for the hybrid nouns of this particular type (see Puškar 2017; 2018). A hybrid noun with no natural gender would be represented as (43), while the noun with the natural gender feature would have the structure in (44). Under this approach, the natural gender feature of *n* would have a more complex syntactic representation than the grammatical one. The gender probe is relativized towards the more complex gender. If this gender is present on the *n*, it will be the preferred goal for Agree (44). If it is absent, Agree would copy the higher grammatical gender (43) (see Puškar 2017 for further detail).



If this analysis were to be adopted, the ungrammatical sentences would be ruled out by prohibiting any mismatches between the features of antecedent and those of the ellipsis site (cf. Merchant 2013).

To sum up, both types of approaches to the structural position of gender features would in principle be compatible with the results of our experiment. Future

research should then be tasked with teasing apart the two and defining the exact locus of the natural and grammatical gender features. However, what the results undoubtedly reveal is the necessity to represent the two types of features separately, as well as that they differ in quality, such that natural gender has an additional meaning component.

## 6 Conclusion

This paper has presented new experimental data from NP ellipsis showing that hybrid nouns in BCS show a split behaviour with regard to gender ellipsis: if they agree in feminine gender, then mismatches in referent gender are permitted for either the antecedent or elided noun. However, masculine agreement in either conjunct blocks gender mismatches. We have linked this to the optional presence of a natural [M] gender feature which represents a target for adjectival concord and introduces a gender presupposition. It is this gender presupposition that destroys the mutual entailment relation required by Merchant's (2001) e-GIVENNESS requirement on ellipsis licensing. Consequently, this study suggests that natural masculine gender is syntactically absent when the adjective agrees in grammatical gender.

## Abbreviations

F	feminine	REFL	reflexive
M	masculine	SG	singular
PL	plural		

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## Appendix

We use an ordinal Bayesian regression model with the package `MCMCglmm` (Hadfield 2010) in R (R Core Team 2016). We used non-informative priors (an inverse

gamma with  $V=1$  and  $\nu=0.002$ ). Table 4 presents the posterior mean estimates, the confidence intervals and equivalent of a Bayesian p value. The corresponding posterior estimates of the random effects can be shown in Table 5.

Table 4: Coefficients for the MCMC model with confidence intervals and cutpoints.

	post.mean	l-95% CI	u-95% CI	effect sample	pMCMC	
(Intercept)	2.7552	2.3839	3.1941	354.0	<0.002	**
condition FFMF	0.3172	-0.1073	0.7484	600.0	0.1433	
condition FFMM	-1.6084	-2.0599	-1.2233	487.7	<0.002	**
condition FMFM	-1.6095	-2.0645	-1.0990	600.0	<0.002	**
condition MFFF	0.3723	-0.0990	0.7610	516.1	0.0933	.
condition MMFF	-1.3541	-1.8228	-0.9690	514.2	<0.002	**
Cutpoints:						
	post.mean	l-95% CI	u-95% CI	effect sample		
cutpoint trait value.1	0.6284	0.5391	0.7129	90.48		
cutpoint trait value.2	1.0485	0.9316	1.1437	62.66		
cutpoint trait value.3	1.5598	1.4347	1.6683	30.25		
cutpoint trait value.4	1.9236	1.8068	2.0575	29.95		
cutpoint trait value.5	2.6803	2.5527	2.8159	43.93		

Table 5: Random effects for the MCMC model.

	post.mean	l-95% CI	u-95% CI	effect sample
participant	0.3557	0.2037	0.512	478.8
	post.mean	l-95% CI	u-95% CI	effect sample
hybrid noun	0.06491	0.004233	0.1571	600

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# Name index

- Abels, Klaus, 362  
Abney, Steven, 342, 417  
Abraham, Werner, 72  
Abulizi, Abudoukelimu, 428  
Abusch, Dorit, 456, 464, 466, 471  
Acquaviva, Paulo, 327  
Adam, Nina, 174, 175  
Adger, David, 147, 148, 151, 159, 165  
Akamatsu, Tsutomu, 118  
Alexiadou, Artemis, 30, 32, 36, 59  
Aljović, Nadira, 344  
Alsina, Aleks, 313  
Altshuler, Daniel, 454  
Alvestad, Silje, 289  
Al'muhamedova, Z. M., 121  
Anand, Pranav, 485  
Anderson, Stephen, 161  
Anstatt, Tanja, 130  
Antonenko, Andrei, 223  
Antonyuk, Svitlana, 373  
Aoun, Joesph, 360  
Apresjan, Jurij D., 131  
Arregi, Karlos, 365  
Arregui, Ana, 289  
Arsenijević, Boban, 313–315  
Artstein, Ron, 17  
Asarina, Alya, 218, 222–224, 231, 236  
Austin, John L., 130, 487  
Avanesov, Ruben I., 110, 111, 114–116  
Avilova, Natal'ja S., 130  
Avrutin, Sergey, 386, 392  
Baayen, R. Harald, 434, 435  
Babby, Leonard H., 53, 55  
Babyonyshev, Maria, 387, 391  
Bacskai-Atkari, Julia, 3–5, 19  
Bailyn, John F., 149, 232, 402  
Baker, Mark C., 340, 357–359, 362, 370  
Baltin, Mark, 2, 4  
Bandi-Rao, Shoba, 339  
Barentsen, Adrian, 305, 307  
Barker, Chris, 417  
Barnetová, Vilma, 233  
Barrie, Michael, 316  
Bartošová, Jitka, 179  
Bartula, Czesław, 255  
Bates, Douglas, 139, 434  
Bayer, Josef, 2, 3, 5, 6, 194, 197, 368  
Bech, Kristin, 1  
Beck, Sigrid, 25–28, 30–33, 40  
Béjar, Susana, 170  
Belić, Bojan, 156  
Benjamini, Yoav, 435  
Berger, Tilman, 289  
Bertram, Raymond, 428, 440, 442  
Bhatia, Tej K., 339  
Bhatt, Rajesh, 78, 178, 179, 482  
Bianchi, Valentina, 4  
Bittner, Maria, 357, 359, 362  
Bloom, Paul, 387  
Blutner, Reinhard, 30  
Bobaljik, Jonathan D., 226, 315–318,

- 326, 359, 370, 405  
Boersma, Paul, 285  
Bondarko, Aleksandr V., 130, 132  
Boneh, Nora, 43, 48  
Bonet, Sebastià, 417  
Borik, Olga, 54, 60, 482  
Bosch, Sina, 430  
Bošković, Željko, 8, 17, 162, 178, 208,  
245, 247, 251, 337–343, 346,  
361, 368, 402, 404  
Brandner, Ellen, 2, 5  
Brecht, Richard, 53, 55, 222, 233  
Breu, Walter, 130, 132, 143, 289  
Broekhuis, Hans, 251, 255  
Browne, Wayles, 149  
Brozović, Dalibor, 273  
Brucart, Josep M., 417  
Bruening, Benjamin, 32, 48, 360  
Brysbaert, Marc, 434  
Bryzgunova, Elena, 416  
Bucci, Jonathan, 121  
Bukrinskaja, Irina A., 115  
Büring, Daniel, 415  
Butt, Miriam, 365  
  
Cable, Seth, 464  
Caha, Pavel, 432, 439, 443  
Campos, Hector, 382  
Cardinaletti, Anna, 387, 417  
Carman, J. N., 123  
Carmona, Jaqueline, 387  
Carvalho, Joaquim, 120  
Castilla, Anny P., 387  
Čavar, Damir, 251  
Čavar, Małgorzata, 271–274, 278, 281,  
283–285  
Cheng, Lisa, 202  
Chierchia, Gennaro, 121  
  
Chomsky, Noam, 2, 18, 148, 169, 178,  
244, 341, 357, 362, 384  
Chumakina, Marina, 405  
Chung, Sandra, 196  
Cinque, Guglielmo, 210  
Clahsen, Harald, 430, 432  
Cohen, Ariel, 480  
Comrie, Bernard, 72, 130  
Cooper, Robin, 325, 326, 330  
Corbett, Greville, 149, 171, 188, 313,  
315  
Costa, João, 387, 394  
Cowper, Elizabeth, 219, 224, 226–  
230, 232, 235  
Cresswell, Max, 464  
Crosswhite, Katherine, 109, 121, 122  
Cruschina, Silvio, 4  
Cubberley, Paul, 220, 221, 223  
Cuervo, María, 26, 47  
Cummins, George, 291, 297, 303  
Cummins, Sarah, 381, 383–385, 394  
  
Dahl, Östen, 289  
Dalrymple, Mary, 170  
Damborský, Jiří, 255  
de Hoop, Helen, 417  
De Vries, Mark, 315  
De Wit, Astrid, 132, 143  
Delsing, Lars-Olof, 417  
den Dikken, Marcel, 339  
Despić, Miloje, 314, 329, 344  
Dickey, Stephen M., 129, 130, 132–  
134, 289–291, 293, 294, 296,  
297, 305–308  
Diependaele, Kevin, 434  
Diesing, Molly, 162  
Dimitriadis, Alexis, 382  
Dimitrova-Vulchanova, Mila, 241,  
243, 248, 254

- Disner, Sandra, 265, 266  
 Dobrovie-Sorin, Carmen, 342  
 Dočekal, Mojmir, 78  
 Doetjes, Jenny, 79, 99–101, 417  
 Donazzan, Marta, 78  
 Dostál, Antonín, 255  
 Drescher, B. Elan, 109  
 Dryer, Matthew S., 241  
 Dübbers, Valentin, 289  
 Dvořák, Věra, 303, 382
- Eckardt, Regine, 128, 131  
 Egré, Paul, 477, 480  
 Elbourne, Paul, 470  
 Embick, David, 219, 226  
 Emonds, Joseph E., 1, 384  
 Enguehard, Guillaume, 121, 122
- Faarlund, Jan Terje, 1  
 Fabricius-Hansen, Cathrine, 30  
 Farkas, Donka, 170, 178  
 Fehrmann, Dorothee, 54, 73, 381  
 Feldman, Laurie B., 428  
 Fellbaum, Christiane, 384  
 Fennig, Charles, 269  
 Filip, Hana, 481, 482  
 Filipović Đurđević, Dušica, 429, 439  
 Fischer, Olga, 242  
 Forsyth, James, 64, 132  
 Fortuin, Egbert, 289, 296, 302, 307  
 Fowler, Carol A., 428  
 Franks, Steven, 246, 247, 340, 371, 381, 401, 402, 418, 419  
 Frey, Werner, 360  
 Frolova, Anna, 386, 392
- Galton, Herbert, 130, 132  
 Garde, Paul, 110, 111  
 Gattnar, Anja, 289
- Gawron, Jean Mark, 61  
 Gehrke, Berit, 59, 63, 289, 482  
 Geurts, Bart, 64  
 Giannakidou, Anastasia, 224, 382  
 Giusti, Giuliana, 417  
 Gluschenko, O. A., 115  
 Gobeski, Adam, 81, 92, 95  
 Golden, Marija, 11–13, 207  
 Gonzales Velásquez, María Dolores, 338, 339  
 Gor, Kira, 428, 432, 433, 440, 442  
 Gordishevsky, Galina, 386, 392  
 Gračanin-Yuksek, Marina, 314, 315  
 Greenberg, Joseph H., 241  
 Gribanova, Vera, 47  
 Groefsema, Marjolein, 384  
 Grohmann, Kleanthes, 387  
 Grønn, Atle, 55, 62–65, 68, 69, 72, 292, 298, 305–307  
 Gruet-Skrabalova, Hana, 8, 9, 197, 198  
 Grüter, Theres, 387  
 Guasti, Maria Teresa, 387, 391
- Hacking, Jane F., 221, 232, 233  
 Hacquard, Valentine, 479, 482, 485  
 Hadfield, Jarrod D, 332  
 Haeberli, Eric, 242  
 Hagstrom, Paul, 197, 198  
 Haider, Hubert, 360  
 Hale, Ken, 357, 359, 362  
 Hale, Mark, 109  
 Halle, Morris, 219, 226, 327  
 Hamann, Cornelia, 387  
 Hamann, Silke, 266, 271–273, 278, 284, 285  
 Hamilton, William S., 109  
 Harizanov, Boris, 47  
 Harley, Heidi, 25, 26, 179, 327, 405

- Harnish, Robert M., 131  
Harrison, William, 217, 220, 221, 223  
Hawkins, John A., 242  
Heck, Fabian, 18  
Heim, Irene, 92, 93, 177, 178, 188, 325, 456, 462, 464, 471  
Hernanz, M. Lluïsa, 417  
Heycock, Caroline, 170  
Hjelmlev, Louis, 109, 121  
Hladnik, Marko, 11–15  
Hochberg, Yosef, 435  
Hoekstra, Eric, 6  
Hofweber, Thomas, 77  
Höhle, Tilman, 360  
Horn, Laurence, 94  
Hornstein, Norbert, 455  
House, Richard, 401, 418, 419  
Hyönä, Jukka, 428  
  
Iatridou, Sabine, 225, 226, 230  
Ingham, Richard, 394  
Ionin, Tania, 77, 417  
Israeli, Alina, 134, 135, 143  
Ivić, Pavle, 266  
  
Jaeggli, Osvaldo A., 349  
Jäger, Gerhard, 30  
Jakubowicz, Celia, 387  
Jespersen, Otto, 232  
Johannessen, Janne Bondi, 171  
Johnson, Kyle, 25–28, 30–32  
Jongman, Allard, 275  
Joppen, Sandra, 362  
Jung, Hakyung, 243, 246, 250  
Jung, Hyun Kyoung, 26  
Jung, Yeun-Jin, 26  
Junghanns, Uwe, 381  
  
Kagan, Olga, 268  
  
Kallestinova, Elena, 232  
Kamp, Hans, 457  
Kamphuis, Jaap, 289, 296, 302, 307  
Kang, Yoonjung, 284  
Kaplan, David, 464  
Karlík, Petr, 171, 175, 187  
Karttunen, Lauri, 477  
Kaspar, Jiri, 8, 9  
Katičić, Radoslav, 149  
Katz, Leonard, 428  
Kaye, Jonathan, 118  
Kayne, Richard, 25, 26, 148, 244, 362, 408  
Kegl, Judy, 384  
Kelleher, Ann, 267  
Kennedy, Christopher, 82, 91, 93  
Keuleers, Emmanuel, 434  
Khrizman, Keren, 78  
Kiefer, Ferenc, 483  
Kihm, Alain, 327  
King, Tracy Holloway, 170, 246  
Kiparsky, Carol, 477  
Kiparsky, Paul, 357, 362, 477  
Klein, Wolfgang, 64, 130  
Knjazev, Jurij P., 55, 62  
Knjazev, Sergej Vladimirovič, 121  
Koivisto, Mika, 428  
Kondrashova, Natalia, 234  
Koopman, Hilda, 2, 362  
Koschmieder, Erwin, 132  
Kostić, Aleksandar, 428, 429, 432  
Kramer, Ruth, 314, 315, 327  
Krapova, Ilyana, 159  
Kratzer, Angelika, 35, 73, 93, 325, 462  
Křen, M., 79  
Krifka, Manfred, 64, 94, 98, 298, 480–482  
Kroch, Anthony, 148, 242

- Kučerová, Ivona, 179  
 Kul'sharipova, R. E., 121  
 Kupisch, Tanja, 268  
 Kuryłowicz, Jerzy, 306  
 Kuznetsova, Alexandra, 434
- Labov, William, 148  
 Ladefoged, Peter, 265, 266, 273  
 Laine, Matti, 428  
 Lambova, Mariana, 251, 253, 254  
 Landau, Idan, 178, 314, 330  
 Landman, Fred, 77, 78  
 Larsen, Uffe B., 121  
 Larson, Richard, 4  
 Lasersohn, Peter, 98, 170  
 Lasnik, Howard, 2, 148  
 Łaziński, Marek, 133–135  
 Le Fleming, Stephen, 217, 220, 221, 223
- Lechner, Winfried, 30, 32, 36  
 Lee, Goun, 275  
 Legate, Julie Anne, 374  
 Lehmann, Volkmar, 130  
 Lema, José, 251  
 Lenth, Russell V, 435  
 Levin, Ted, 358, 362  
 Lewis, David, 464  
 Li, Yen-Hui Audery, 360  
 Lillo-Martin, Diane, 387, 394  
 Lindseth, Martina, 381  
 Lipták, Anikó, 327  
 Lobo, Maria, 387  
 Lomashvili, Leila, 26  
 Longobardi, Giuseppe, 178  
 Lopes, Ruth, 387, 394  
 Lukatela, Georgije, 428  
 Lyashevskaya, Olga N., 434  
 Łyskawa, Paulina, 284
- MacSwan, Jeff, 338  
 Maddieson, Ian, 272, 273  
 Maling, Joan, 367  
 Marantz, Alec, 219, 226, 327, 357–359, 403, 405
- Marco, Cristina, 59  
 Marelj, Marijana, 371  
 Marin, Stefania, 387, 391  
 Marinis, Theodoros, 387  
 Martí i Girbau, M. Núria, 418  
 Marušič, Franc, 4, 12, 13, 170, 193–197, 201, 203–209, 212
- Maslov, Jurij S., 62, 130, 307  
 Mateu, Victoria Eugenia, 387  
 Mathesius, Vilém, 55  
 Matushansky, Ora, 77, 330  
 McCoy, Svetlana, 197, 198  
 McFadden, Thomas, 357, 359, 367–369, 405
- McIntyre, Andrew, 26, 39, 47  
 McNally, Louise, 82  
 Mehlig, Hans Robert, 62, 63, 130, 292  
 Mel'čuk, Igor', 409  
 Melara, Emilia, 229, 234  
 Merchant, Jason, 4, 193–196, 203, 204, 313, 315, 316, 318, 324–327, 331, 332, 382
- Mezhevich, Ilana, 217–222, 234  
 Migdalski, Krzysztof, 243, 245–251, 255
- Miletić, Branko, 270  
 Milin, Petar, 429, 434, 439  
 Milner, Jean-Claude, 417  
 Mišeska-Tomić, Olga, 156  
 Mišmaš, Petra, 8, 13, 200  
 Mitrović, Moreno, 197  
 Mittwoch, Anita, 306  
 Miyagawa, Shigeru, 26

## *Name index*

- Młynarczyk, Anna, 487  
Morzycki, Marcin, 92, 95, 97  
Moscoso del Prado Martín, Fermín, 429, 439  
Mueller-Reichau, Olav, 63, 306  
Müller, Gereon, 381, 432, 433, 439, 441, 442  
Munn, Alan Boag, 178  
Muysken, Pieter, 338  
Myers, James, 388  
Mykhaylyk, Roksalana, 386, 392, 393  
  
Nagy, Naomi, 284  
Narita, Hiroki, 178  
Nash, Léa, 43, 48  
Neokleous, Theoni, 387  
Nevins, Andrew, 178, 365  
Niemi, Jussi, 428  
Nikolaeva, Liudmila, 188  
Noyer, Rolf, 219, 226, 327  
Nunes, Jairo, 316, 318  
  
Obenauer, Hans-Georg, 194, 197  
Ogihara, Toshiyuki, 454, 462–464  
Opitz, Andreas, 430, 441  
Orešnik, Janez, 207, 208  
Otheguy, Ricardo, 268  
Ott, Dennis, 210  
  
Padgett, Jaye, 109  
Padučeva, Elena V., 62, 63, 130, 131, 292, 299  
Pancheva, Roumyana, 78, 92, 93, 241, 243–257, 260  
Panevová, Jarmila, 171, 173, 174  
Parmenter, C. E., 123  
Partee, Barbara H., 462  
Paslawska, Alla, 55, 60  
Penke, Martina, 430, 441  
  
Percus, Orin, 464  
Pérez-Leroux, Ana Teresa, 383, 385, 387, 389  
Pesetsky, David, 26, 169, 170, 313, 330, 402, 409, 413, 416  
Peti-Stantić, Anita, 149  
Petinou, Kakia, 387  
Petkevič, Vladimír, 171, 173, 174  
Petroj, Vanessa, 339, 342, 344, 345, 347, 349  
Petruchina, Elena V., 130, 131, 289  
Picallo, M. Carme, 224, 330  
Pintzuk, Susan, 242  
Plungjan, Vladimir A., 289  
Polinsky, Maria, 267–269, 284  
Pollock, Jean-Yves, 362  
Poplack, Shana, 338  
Preminger, Omer, 170, 180, 358, 359, 362  
Progovac, Ljiljana, 365, 371, 375  
Pshekhotskaya, Ekaterina, 44  
Puškar, Zorica, 329, 331  
Pylkkänen, Liina, 25, 26  
  
Quer, Josep, 224  
  
Radanović-Kocić, Vesna, 245, 247, 248  
Radeva-Bork, Teodora, 386, 389, 390, 392  
Ramchand, Gillian, 228, 229, 235  
Ramos, Joan Rafel, 417  
Rapp, Irene, 32, 33  
Rassudova, Ol'ga P., 130  
Rathmayr, Renate, 132, 135  
Reiss, Charles, 109  
Rett, Jessica, 96, 97  
Reyle, Uwe, 457  
Rezac, Milan, 170

- Rigau, Gemma, 417  
 Rigaut, Catherine, 387  
 Riqueros, José, 340  
 Ritchie, William C., 339  
 Ritter, Elizabeth, 179, 188, 218, 225, 226, 229, 230  
 Rivero, María-Luisa, 251, 256, 289  
 Rizzi, Luigi, 19, 194, 195, 228, 234, 384  
 Rjabceva, Nadežda K., 133, 134  
 Roberge, Yves, 381, 383–385, 394  
 Roelofsen, Floris, 188  
 Ronelle, Alexander, 161  
 Rooryck, Johan, 202  
 Ross, John R., 194, 196  
 Rothstein, Susan, 77  
 Rudin, Catherine, 8  
 Rullmann, Hotze, 93  
  
 Saab, Andrés, 327  
 Samojlova, Maria, 432, 434, 439–442  
 Sauerland, Uli, 199, 325, 464  
 Schaeffer, Jeannette, 387, 389, 391, 392  
 Schäfer, Florian, 26, 73  
 Schane, Sanford A., 118, 120  
 Scheer, Tobias, 121  
 Schlenker, Philippe, 224, 479  
 Schoorlemmer, Maaïke, 54, 55, 60  
 Schulz, Katrin, 94  
 Schütze, Carson, 403, 405  
 Schwabe, Kerstin, 9  
 Schwarzschild, Roger, 88, 91–93  
 Scontras, Gregory, 267, 268  
 Ségéral, Philippe, 121  
 Ševa, Nada, 429  
 Sharoff, Sergej, 434  
 Sharvit, Yael, 454, 462, 464  
 Sheppard, Milena Milojević, 12, 207  
 Sigurðsson, Halldór Ármann, 405  
  
 Silva, Carolina, 387  
 Simons, Gary, 269  
 Škarić, Ivo, 270, 271  
 Slabakova, Roumyana, 232  
 Sławski, Franciszek, 249, 250  
 Sleeman, Petra, 417  
 Slioussar, Natalia, 432, 434, 439–442  
 Šmelev, Aleksej D., 130  
 Smith, Jennifer, 147, 148, 151, 159  
 Smith, Peter, 314  
 Snoj, Marko, 201  
 Snyder, William, 40  
 Solà, Joan, 417  
 Solt, Stephanie, 91  
 Sonnenhauser, Barbara, 298, 307  
 Sopata, Aldona, 386, 392, 393  
 Spathas, Giorgos, 316, 318, 325, 326  
 Spencer, Andrew, 218, 221  
 Stankiewicz, Edward, 266  
 Stanković, Branimir, 344  
 Starke, Michal, 387  
 Stephany, Ursula, 387  
 Sternefeld, Wolfgang, 368  
 Stiasny, Andrea, 386, 387, 391, 392  
 Stiebels, Barbara, 357, 362  
 Stipčević, Balša, 369, 370, 373  
 Stjepanović, Sandra, 361  
 Strawson, Peter, 478  
 Struckmeier, Volker, 210  
 Stunová, Anna, 289, 305, 307, 308  
 Sudo, Yasutada, 177, 178, 316, 318, 325, 326  
 Sussex, Roland, 409  
 Švedova, Natalija J., 132  
 Švedova, Natalija Ju., 55  
 Svenonius, Peter, 40, 228, 229, 235  
 Svetožarova, Natalija Dmitrievna, 121

## *Name index*

- Swan, Oscar, [130](#)
- Talić, Aida, [344](#)
- Tatevosov, Sergei, [35](#), [36](#), [40](#), [301](#), [307](#)
- Tedeschi, Roberta, [387](#), [391](#)
- Terzi, Arhonto, [387](#)
- Thepboriruk, Kanjana, [284](#)
- Titov, Elena, [361](#), [415](#), [416](#), [422](#)
- Todorović, Dejan, [428](#)
- Todorović, Nataša, [156](#)
- Todorović, Neda, [156](#), [157](#), [159](#), [160](#), [164](#)
- Toman, Jindřich, [259](#)
- Tomić, Olga Mišeska, [248](#), [249](#)
- Toporišič, Jože, [207](#)
- Torrego, Esther, [169](#), [170](#)
- Trousdale, Graeme, [147](#), [148](#), [151](#)
- Tryzna, Marta, [386](#), [392](#), [393](#)
- Tsakali, Vina, [387](#)
- Uhmann, Susanne, [360](#)
- Ungureanu, Manuela, [342](#)
- Uriagereka, Juan, [338](#)
- Vaillant, André, [257](#)
- Van Craenenbroeck, Jeroen, [195](#)
- Van der Sandt, Rob, [64](#)
- van Gelderen, Elly, [2](#), [5](#), [6](#)
- van Hout, Angeliek, [384](#)
- van Rooij, Robert, [94](#)
- Varlokosta, Spyridoula, [384](#), [389](#), [394](#)
- Vasilyeva, Maria D., [431](#)
- Večerka, Radoslav, [257](#)
- Velnić, Marta, [361](#)
- Veltman, Calvin, [269](#), [283](#)
- Vennemann, Theo, [241](#)
- Vicente, Luis, [204](#)
- Vinokurova, Nadya, [357](#), [359](#), [362](#)
- von Fintel, Kai, [100](#)
- von Stechow, Arnim, [25](#), [30](#), [32](#), [33](#), [55](#), [60](#), [92](#), [93](#), [360](#), [462](#), [464](#)
- Vulchanov, Valentin, [241](#), [243](#), [248](#), [254](#)
- Vysotskij, S. S., [121](#)
- Wągiel, Marcin, [78](#), [87](#), [99](#)
- Walkden, George, [1](#)
- Walkow, Martin, [178](#), [179](#)
- Wang, Qi, [387](#), [394](#)
- Wechsler, Stephen, [313](#), [329](#)
- Wedel, Andrew, [273](#)
- Weenink, David, [285](#)
- Wexler, Kenneth, [387](#), [391](#)
- Wiemer, Björn, [133–135](#), [142](#), [289](#), [293](#)
- Wierzbicka, Anna, [481](#)
- Wiese, Bernd, [431–433](#), [439](#), [441](#), [442](#)
- Wilder, Chris, [251](#)
- Wilkinson, Karina, [91](#), [93](#)
- Willis, David, [243](#), [252](#), [255](#), [257](#), [258](#)
- Wiltshko, Martina, [188](#), [218](#), [219](#), [224–226](#), [229](#), [230](#)
- Wood, Jim, [359](#), [370](#)
- Wunderlich, Dieter, [357](#), [362](#), [430](#), [432](#), [439](#), [441](#), [442](#)
- Wurmbrand, Susanne, [156](#), [157](#), [159](#), [160](#), [164](#)
- Xu, Ting, [47](#)
- Yadroff, Michael, [409](#), [410](#), [421](#)
- Yatsushiro, Kazuko, [199](#)
- Yip, Moira, [357](#), [405](#)
- Yu, Kristine, [161](#)
- Zaenen, Annie, [366](#), [405](#)
- Zaliznjak, Anna A., [130](#)
- Zaliznyak, Andrey, [433](#)
- Zamparelli, Roberto, [170](#)



Žaucer, Rok, 208  
Zec, Draga, 170, 178  
Zimmermann, Malte, 11, 197, 210  
Zlatić, Larica, 313, 329  
Zlatoustova, L. B, 121  
Zocca, Cynthia Levart, 315–318, 326  
Žygis, Marzena, 266



# Language index

Abkhaz, 273

Baltic, 105

Basque, 365

BCS, 208, 265, 266, 266<sup>1</sup>, 267, 269, 271, 272<sup>7</sup>, 273, 275<sup>10</sup>, 283, 286, 314, 315, 317, 320, 326, 332, 360

Belarusian, 290, 291

Bohemian, 171<sup>4</sup>, 188

Bosnian, 265, 267, 273<sup>8</sup>, 278, 279, 284–286, 320

Bosnian/Croatian/Serbian, *see* BCS

Brazilian Portuguese, 315, 317, 382, 384, 388, 390, 391, 393–395

British English, 284

Bulgarian, 243–256, 260, 340, 382, 384–386, 388–390, 392, 393, 395

Čakavian, 266, 272

Catalan, 224, 384, 388, 390, 391, 393, 395, 418

Chinese, 47<sup>13</sup>, 272, 340<sup>3</sup>, 382, 384, 386, 388, 390, 391, 393–395

Croatian, 148–151, 153, 155, 163–165, 201, 245<sup>2</sup>, 246, 249, 250, 256, 265, 267, 270–273, 278, 279, 284–286, 290, 320, 361<sup>1</sup>, 361<sup>2</sup>, 365, 382, 384, 386, 388–390, 392, 393, 395, 413<sup>15</sup>

Czech, 7, 8, 8<sup>9</sup>, 9, 9<sup>11</sup>, 10, 10<sup>13</sup>, 11, 12, 12<sup>17</sup>, 13–16, 18, 20, 21, 73, 78, 79, 79<sup>2</sup>, 81, 83, 84, 84<sup>9</sup>, 86, 87<sup>12</sup>, 91–93, 96, 97, 99, 104, 105, 133, 149, 170, 170<sup>2</sup>, 171<sup>5</sup>, 174, 175, 176<sup>11</sup>, 180, 186–188, 197, 197<sup>7</sup>, 198, 201, 246, 258, 259, 290–294, 296–301, 303–307, 382, 481, 483<sup>3</sup>

Danish, 4<sup>2</sup>

English, 1<sup>1</sup>, 2–8, 11, 14, 17, 18, 20, 25, 25<sup>1</sup>, 26, 27, 27<sup>2</sup>, 27<sup>3</sup>, 29, 30, 31<sup>6</sup>, 32, 32<sup>7</sup>, 34, 35<sup>9</sup>, 39, 42, 47, 48, 59, 72, 77, 78, 78<sup>1</sup>, 81<sup>6</sup>, 83, 87<sup>12</sup>, 92, 131, 131<sup>3</sup>, 148, 198, 204, 212, 227–229, 229<sup>2</sup>, 234, 235, 242, 266, 267, 268<sup>3</sup>, 269, 273, 274, 278, 283, 284, 286, 340, 341, 382, 383<sup>1</sup>, 384, 385, 388, 391, 393, 395, 403<sup>3</sup>, 404<sup>4</sup>, 455<sup>5</sup>, 456, 457, 471–473, 481, 490

Finnish, 340, 428, 443

French, 56, 78, 99, 202, 383<sup>1</sup>, 384, 386, 388, 391, 393, 395, 482

Georgian, 382

German, 1<sup>1</sup>, 3, 5<sup>3</sup>, 7<sup>8</sup>, 11<sup>15</sup>, 15<sup>23</sup>, 20, 33, 33<sup>8</sup>, 34, 35<sup>9</sup>, 59, 59<sup>5</sup>, 60, 149,

- 197, 207, 210, 210<sup>15</sup>, 224, 225,  
242, 271, 273, 367, 368, 369<sup>6</sup>,  
382, 430, 490
- Germanic, 1, 1<sup>1</sup>, 2, 3, 5, 7, 10<sup>13</sup>, 11, 15–  
20, 243
- Greek, 315, 316, 325, 326, 340, 382,  
384, 386, 388, 390, 393, 395,  
482<sup>2</sup>
- Hebrew, 454, 454<sup>2</sup>
- Hindi, 340, 482<sup>2</sup>
- Hungarian, 78, 483
- Icelandic, 224, 359, 366, 370
- Ijekavian, 149
- Irish, 4<sup>2</sup>
- Italian, 123, 384, 388, 390–393, 395
- Kajkavian, 266, 272
- Latin, 276, 320, 340
- Macedonian, 247, 340
- Moravian, 171<sup>4</sup>, 187, 188
- Polish, 78, 84<sup>9</sup>, 132, 133, 246<sup>3</sup>, 250,  
258, 259, 265, 266<sup>1</sup>, 271,  
272, 285, 285<sup>14</sup>, 290–300,  
300<sup>10</sup>, 304–308, 382, 384,  
386, 388–395, 477, 480–483,  
487, 489
- Romance, 340
- Romanian, 338, 339, 341, 342, 342<sup>5</sup>,  
343–345, 345<sup>8</sup>, 346–351,  
351<sup>13</sup>, 352, 353, 384, 388,  
391–393, 395
- Russian, 25, 25<sup>1</sup>, 27, 27<sup>2</sup>, 27<sup>3</sup>, 28, 29,  
31<sup>6</sup>, 32, 34, 35, 35<sup>9</sup>, 37, 39,  
40, 40<sup>11</sup>, 41, 42, 44, 47, 47<sup>13</sup>,  
48, 53–56, 60, 61, 64<sup>8</sup>, 67<sup>9</sup>,  
71–73, 78, 84<sup>9</sup>, 109–114, 117,  
119–122, 122<sup>10</sup>, 123, 128–130,  
130<sup>2</sup>, 131–133, 135, 136, 136<sup>6</sup>,  
143, 197, 198, 198<sup>8</sup>, 217–221,  
226, 228, 229, 229<sup>3</sup>, 230, 231,  
234–238, 246<sup>3</sup>, 250, 258<sup>6</sup>,  
259<sup>7</sup>, 290–294, 296, 300<sup>10</sup>,  
304–308, 361<sup>2</sup>, 382, 384,  
386, 388–393, 395, 401, 402<sup>1</sup>,  
403, 403<sup>3</sup>, 404, 404<sup>4</sup>, 405,  
405<sup>4</sup>, 405<sup>5</sup>, 406, 406<sup>7</sup>, 411,  
413<sup>15</sup>, 413<sup>16</sup>, 414, 415<sup>18</sup>, 416,  
419, 422, 428, 431–433, 434<sup>2</sup>,  
438–441, 443, 453, 454, 454<sup>1</sup>,  
454<sup>2</sup>, 454<sup>3</sup>, 455–459, 462,  
463, 468, 472, 473
- Serbian, 149, 150, 153, 160, 162–165,  
245, 265, 267, 273<sup>8</sup>, 278, 279,  
284–286, 290, 320, 338–340,  
340<sup>4</sup>, 341–345, 345<sup>8</sup>, 346–  
351, 351<sup>13</sup>, 352, 353, 360–  
362, 368, 368<sup>5</sup>, 370, 373<sup>8</sup>,  
375, 428, 429, 439, 443
- Slavic, v, vi, 3, 15–20, 53, 54, 73,  
73<sup>12</sup>, 78, 78<sup>1</sup>, 92, 96, 165, 187,  
188, 197, 201, 243, 245, 245<sup>2</sup>,  
246–249, 251, 252, 255, 256,  
259<sup>7</sup>, 260, 265, 266<sup>2</sup>, 289–  
291, 307, 308, 340, 381, 383,  
386, 388, 390, 392, 393
- Slavonic, 201, 243, 247, 248, 250–254,  
254<sup>4</sup>, 255–257, 260
- Slovak, 133, 246
- Slovene, 290
- Slovenian, 4<sup>2</sup>, 8<sup>10</sup>, 8<sup>9</sup>, 11, 12<sup>17</sup>, 13<sup>18</sup>, 14,  
14<sup>21</sup>, 15, 16, 18–21, 84<sup>9</sup>, 194,  
194<sup>1</sup>, 194<sup>3</sup>, 195–197, 197<sup>7</sup>,

198, 198<sup>8</sup>, 200, 201, 203–210,  
210<sup>15</sup>, 211, 212, 246, 250  
Spanish, 59, 224, 268, 283, 340, 349<sup>12</sup>,  
382, 384, 388, 390, 391, 393,  
395  
Štokavian, 266, 272  
Swahili, 382  
  
Turkish, 149  
  
Ubykh, 273  
Ukrainian, 291, 384, 386, 388, 390–  
393, 395  
Uyghur, 428, 443



# Subject index

- accusative, 27, 27<sup>2</sup>, 35, 37, 38, 43,  
45, 157, 208, 244, 247, 248,  
349<sup>12</sup>, 358, 359, 362, 363,  
365, 371<sup>7</sup>, 373, 375, 435, 441,  
442
- adjective, 55, 56, 58–61, 65, 71, 73, 78,  
78<sup>1</sup>, 84, 84<sup>9</sup>, 85–87, 87<sup>12</sup>, 88,  
89, 92, 96–99, 104, 151, 174,  
176, 185, 186, 242, 315, 318,  
323, 329, 330, 332, 340<sup>3</sup>, 341,  
342, 342<sup>6</sup>, 344, 345, 345<sup>9</sup>,  
346, 347, 403<sup>3</sup>, 409<sup>11</sup>, 413,  
413<sup>16</sup>, 414, 428, 430, 441
- adverb, 27, 32–35, 37<sup>10</sup>, 39, 44, 47,  
47<sup>13</sup>, 100, 197, 199, 201, 210,  
211, 246, 254
- adverbial, 61, 78<sup>1</sup>, 84, 85, 89, 98, 254,  
455, 456, 458, 470, 472, 473
- affricate, 272, 273, 280
- agreement, v, 148, 164, 170, 170<sup>1</sup>,  
171, 171<sup>5</sup>, 172–174, 174<sup>9</sup>,  
175, 175<sup>10</sup>, 176–179, 181–188,  
199<sup>9</sup>, 225, 227, 229–231, 313,  
314, 315<sup>1</sup>, 318, 319, 322–324,  
326<sup>6</sup>, 327–330, 332, 340<sup>3</sup>,  
345, 345<sup>9</sup>, 382, 405, 412, 413,  
413<sup>14</sup>, 414, 416, 416<sup>19</sup>, 419,  
421<sup>22</sup>, 422, 459
- anaphora, 65, 70
- animate, 38, 170–174, 174<sup>9</sup>, 175, 175<sup>10</sup>,  
176, 176<sup>11</sup>, 179, 180, 182, 183,  
188, 392, 394, 421
- applicative, 26, 32<sup>7</sup>, 44, 45, 47–49
- archiphoneme, 117–120
- aspect, 55, 62, 72, 73, 129, 132–134,  
143, 197, 199–201, 211, 219,  
229, 236, 289–291, 294, 298,  
303–305, 307, 308, 478, 480,  
487, 489
- case assignment, 231, 358, 359, 363–  
365, 369, 375
- case feature, 358, 359, 362, 413<sup>16</sup>
- clitic, 9, 12<sup>17</sup>, 151, 162, 200, 203, 204,  
207, 231, 244, 245, 245<sup>2</sup>,  
246–249, 252–254, 258<sup>6</sup>,  
375, 384, 385, 389, 394
- clitic cluster, 150, 196, 207–209, 210<sup>14</sup>,  
212
- clitic placement, 151, 154, 164, 207,  
243, 248, 249
- cliticization, 243–247, 249, 258<sup>6</sup>
- comparative, 88, 90, 92, 96, 103, 104,  
290
- complement clause, 222, 224, 234–  
236, 454, 455, 462, 482
- complementary distribution, 2, 9, 14,  
87, 235, 371
- complementizer, 2–4, 4<sup>2</sup>, 5, 5<sup>5</sup>, 5<sup>6</sup>, 9<sup>11</sup>,  
10, 11, 12<sup>17</sup>, 13<sup>18</sup>, 15, 18, 18<sup>26</sup>,  
19, 20, 96, 156, 197, 197<sup>7</sup>, 201,  
207, 208, 222, 223, 232, 233,  
235, 247, 257, 258

## *Subject index*

- conjunct, 97, 171<sup>5</sup>, 173<sup>8</sup>, 174, 177, 179,  
183, 185, 186, 233, 319, 329,  
332, 467
- conjunction phrase, 176–186
- consonant, 111, 112, 114, 120, 285<sup>14</sup>
- contrastive, 361, 414, 416, 422, 423
- contrastive focus, 162, 198, 202,  
203<sup>13</sup>, 233
- dative, 25, 27, 27<sup>2</sup>, 29, 35, 37–  
39, 41–49, 152<sup>2</sup>, 208, 223,  
231, 247, 359, 360, 363–366,  
368<sup>5</sup>, 369, 369<sup>6</sup>, 370, 372–  
375, 433, 435, 438, 441
- definite article, 342<sup>6</sup>, 344, 345, 347
- dialect continuum, 148, 149, 151, 161,  
164
- direct object, 26, 28, 32<sup>7</sup>, 38, 44–46,  
49, 241, 349, 360, 383, 389,  
392, 394, 481, 487  
*see also* DO
- discourse particle, 193, 197<sup>7</sup>, 199, 202
- ditransitive, 26, 27, 29–32, 32<sup>7</sup>, 35,  
37–39, 41–43, 47, 349, 351<sup>13</sup>,  
369, 370, 373, 375
- DO, 26, 349, 351, 352, 354, 360–362,  
365, 372, 375  
*see also* direct object
- double object, 27, 42<sup>12</sup>, 351, 360
- double object construction, 25, 26,  
27<sup>2</sup>, 28<sup>4</sup>, 30, 32, 32<sup>7</sup>, 40, 47,  
48, 375
- echo interpretation, 10, 11, 14–16, 20
- ellipsis, 4<sup>2</sup>, 194, 196, 210<sup>15</sup>, 315, 316,  
318, 325, 327, 328, 331, 332,  
366
- entailment, 329, 478, 479, 482, 482<sup>2</sup>,  
484, 485, 488
- equative, 95, 96, 103
- ergative, 358, 359, 362, 363, 365, 370,  
374
- experiencer, 150, 155, 156, 163–165,  
485, 486, 488
- external argument, 160, 231, 364, 372,  
373
- factivity, 73, 477–480, 482, 483, 483<sup>3</sup>,  
487–489
- feature geometry, 178, 180, 219, 226,  
228
- feature resolution, 170, 171<sup>5</sup>, 172, 176,  
177, 181, 186, 188
- feminine, 151, 170, 171, 171<sup>3</sup>, 174, 175,  
180, 182, 183, 314–316, 318,  
319, 322–324, 326, 326<sup>6</sup>, 327,  
329, 330, 332, 403<sup>3</sup>, 421<sup>22</sup>,  
429, 431–433, 433<sup>1</sup>, 435–442
- finite complementizer, 2, 5, 6, 16, 17,  
19, 20
- functional load, 269, 273
- future, 37<sup>10</sup>, 66, 71, 102, 129, 130, 132,  
134, 135, 135<sup>5</sup>, 136, 138–141,  
161, 188, 219, 222, 224, 235–  
237, 258, 329, 338, 351<sup>13</sup>,  
367<sup>4</sup>, 368<sup>5</sup>, 375, 404, 405<sup>4</sup>,  
457, 460, 462, 466<sup>9</sup>, 471, 473,  
480, 487<sup>5</sup>, 490
- gender, 170–178, 180–185, 314, 315,  
315<sup>1</sup>, 316–318, 323, 325–327,  
329–332, 345<sup>9</sup>, 388, 421<sup>22</sup>,  
433, 435, 435<sup>6</sup>, 437
- genitive, 359, 367, 367<sup>4</sup>, 401, 402,  
402<sup>1</sup>, 403, 403<sup>3</sup>, 404, 404<sup>4</sup>,  
405–408, 411–414, 418, 419,  
431, 433<sup>1</sup>, 436–438, 440, 442



- grammatical gender, 314, 315, 318,  
324, 326, 327, 330–332
- head directionality, 241–243, 246,  
249, 258<sup>6</sup>, 259
- heritage language, 266–268, 268<sup>3</sup>,  
269, 277, 284
- imperfective, 54–64, 64<sup>8</sup>, 65–73, 137,  
219, 289, 290, 292, 292<sup>2</sup>,  
293–296, 296<sup>6</sup>, 297, 297<sup>7</sup>,  
298–300, 300<sup>10</sup>, 303–306,  
306<sup>15</sup>, 307, 478–482, 484,  
486, 487, 489
- implicature, 94, 298, 479, 480, 482,  
483, 486, 488
- inanimate, 170, 171, 171<sup>3</sup>, 173, 175, 179,  
180, 182, 297, 392, 394, 420,  
421, 431
- indirect object, 26–28, 32<sup>7</sup>, 349, 360  
*see also* IO
- infinitive, 130, 154, 157, 159–161, 218,  
223, 229, 231
- inflectional class, 429, 439, 440
- information structure, 20, 63, 64, 68,  
71
- instrumental, 61, 88<sup>14</sup>, 432, 433, 437–  
440
- internal argument, 87, 352, 353, 373
- interrogative, 2, 4–6, 9–11, 14<sup>21</sup>, 15–  
17, 17<sup>24</sup>, 18, 19, 197
- IO, 349, 351, 352, 354, 360–362  
*see also* indirect object
- language change, 257<sup>5</sup>, 267, 268, 284,  
286
- LBE, 338, 340, 340<sup>3</sup>, 340<sup>4</sup>, 341–  
343, 346–351, 351<sup>13</sup>, 352–  
354, 368<sup>5</sup>
- left branch extraction, *see* LBE
- left periphery, 46, 194–196, 201, 206,  
210, 210<sup>14</sup>, 212
- lexical decomposition, 26, 30, 33, 42
- lexicalization, 2–5, 7, 7<sup>8</sup>
- locative, 29, 40, 44–47, 49, 431, 433,  
435, 437–439, 441, 442
- main clause, 2, 7, 10, 11, 11<sup>15</sup>, 13–15,  
15<sup>23</sup>, 454, 458
- masculine, 151, 170, 171, 171<sup>3</sup>, 172–174,  
174<sup>9</sup>, 175, 176, 179, 180, 182,  
183, 314–316, 318, 319, 322–  
324, 326, 328–332, 421<sup>22</sup>,  
429, 431–433, 433<sup>1</sup>, 435–442
- matrix clause, 157<sup>3</sup>, 218, 223, 224, 231,  
234, 235, 460, 469–472
- matrix verb, 157, 159, 235, 236, 480–  
482, 487–490
- modal adverbial, 478, 483–486, 489
- mutual entailment, 324, 325, 327,  
329, 331, 332
- narrow syntax, 169, 170, 177, 178, 181,  
186, 362
- natural gender, 314, 318, 324, 326–  
328, 330–332
- negation, 63, 66, 67, 69, 69<sup>11</sup>, 110<sup>1</sup>,  
207, 210<sup>15</sup>, 243, 251, 256–  
258, 258<sup>6</sup>, 259, 260, 478,  
483–486, 489
- neuter, 151, 170–173, 175, 176, 176<sup>11</sup>,  
180–182
- nominal, 70, 78, 84, 84<sup>9</sup>, 85, 87–89, 97,  
171, 178, 241, 242, 315, 327,  
330, 427, 428, 430, 432, 439,  
481, 482, 487
- nominalization, 65, 71

## *Subject index*

- nominative, 111<sup>4</sup>, 174, 185, 223, 227, 229, 231, 358, 359, 365, 370, 371, 403, 403<sup>3</sup>, 405, 412, 413, 416, 419, 428, 430, 431, 433, 433<sup>1</sup>, 435–438, 442
- null object, 381, 383<sup>1</sup>, 385, 386, 392–394
- numeral, 78, 83, 91, 94, 102, 402, 402<sup>1</sup>, 403, 403<sup>2</sup>, 403<sup>3</sup>, 404, 404<sup>4</sup>, 405, 405<sup>4</sup>, 406, 407, 407<sup>9</sup>, 408, 408<sup>10</sup>, 412, 413, 413<sup>16</sup>, 414–419, 421<sup>22</sup>, 422, 423
- object drop, 381–383, 388, 392–395
- object omission, 382, 384, 390–395
- oblique case, 428, 430–432, 436, 438, 440, 443
- participle, 53, 56, 57, 59, 60, 68, 71, 174, 220, 251–258, 258<sup>6</sup>, 315
- partitive, 93, 103, 407, 417, 417<sup>21</sup>, 418, 419, 422, 423, 481
- past, 53, 55–58, 63, 64, 66, 69<sup>10</sup>, 71–73, 137–140, 144, 159–161, 174, 218–220, 223–232, 235–238, 251–253, 258, 260, 292, 293, 454–457, 459–464, 466, 466<sup>9</sup>, 467, 468, 470–473
- perfective, 54, 54<sup>1</sup>, 55, 56, 60, 62, 63, 64<sup>8</sup>, 65, 66, 69, 71, 73, 129, 132, 133, 135–137, 142, 219, 221, 229<sup>3</sup>, 258, 289–291, 293–300, 300<sup>10</sup>, 301, 302, 304–306, 306<sup>15</sup>, 307, 308, 392, 478–484, 486, 487, 487<sup>5</sup>, 488–490
- performative speech act, 128, 129, 131, 133–136, 139, 143, 144
- plural, 170, 173, 175, 176<sup>11</sup>, 177, 179–182, 259, 401–403, 403<sup>3</sup>, 405, 406, 408, 411–414, 417–419, 422, 431, 432, 433<sup>1</sup>, 438–443
- polar operator, 3, 7, 17, 19
- prenominal modifier, 151, 162
- present, v, vi, 8<sup>9</sup>, 11<sup>15</sup>, 14<sup>20</sup>, 15, 16, 18<sup>25</sup>, 18<sup>26</sup>, 20, 37, 37<sup>10</sup>, 39, 43, 48, 78, 79, 109, 128–130, 131<sup>3</sup>, 132, 133, 135–144, 148–150, 154, 156, 157, 157<sup>3</sup>, 158, 159, 159<sup>5</sup>, 160–165, 177, 178, 182, 187, 188, 196, 199, 218, 219, 222, 224, 227<sup>1</sup>, 235, 236, 238, 243, 253, 255, 260, 278, 289, 290, 296, 301, 305, 331, 346, 348, 358, 368<sup>5</sup>, 369, 370, 385, 386, 388, 390, 391, 393, 402, 402<sup>1</sup>, 404<sup>4</sup>, 406<sup>6</sup>, 407, 414–416, 418, 429, 430, 441, 443, 455<sup>5</sup>, 456, 462, 468, 471–473, 478, 483, 487, 488
- presupposition, 30, 64, 136, 198<sup>8</sup>, 325–328, 332, 456, 460–464, 466, 466<sup>9</sup>, 467, 472, 473, 478–480, 483, 484, 486, 488–490
- pretonic, 111, 111<sup>3</sup>, 112, 113, 115, 116, 121, 122
- processing, 351<sup>13</sup>, 427–432, 438, 439, 441–443
- pronominal, 70, 159, 210<sup>14</sup>, 243, 244, 245<sup>2</sup>, 246, 246<sup>3</sup>, 247–250, 254, 385, 462, 470
- pronoun, 60, 63, 70, 96, 178, 315<sup>1</sup>, 375, 384, 389, 394
- repetitive, 27, 27<sup>3</sup>, 30, 30<sup>5</sup>, 31, 32, 32<sup>7</sup>, 33, 35<sup>9</sup>, 36, 37, 37<sup>10</sup>, 39, 44,

- 47, 47<sup>13</sup>  
 restitutive, 27, 27<sup>2</sup>, 28, 28<sup>4</sup>, 29–32, 32<sup>7</sup>, 33, 33<sup>8</sup>, 34, 35, 35<sup>9</sup>, 36, 37<sup>10</sup>, 38–44, 47, 47<sup>13</sup>, 48, 49  
 second position, 12<sup>17</sup>, 201, 207, 232, 235, 243–245, 245<sup>2</sup>, 246–248, 250, 256, 258<sup>6</sup>  
 semantic recoverability, 410, 422, 423  
 semantics, v, 17, 27, 30, 30<sup>5</sup>, 32, 35, 37, 39, 47, 55, 64, 78, 79, 83, 91–93, 96–98, 102–104, 143, 157<sup>4</sup>, 162, 165, 177, 179, 182, 226–228, 230, 232, 235–237, 257, 291, 298, 300<sup>10</sup>, 301, 305, 307, 318, 383, 412, 456, 460–462, 466, 467, 469–471, 474, 480, 481, 487<sup>5</sup>, 488, 490  
 sibilant, 274, 285, 286  
 sluice, 204, 205, 210  
 small clause, 25–27, 28<sup>4</sup>, 29–32, 32<sup>7</sup>, 34, 39–41, 45, 47, 48  
 soft consonant, 112–114, 116, 117, 119  
 specifier, 2, 4, 5<sup>6</sup>, 10, 12<sup>17</sup>, 13<sup>18</sup>, 15–17, 20, 28<sup>4</sup>, 32<sup>7</sup>, 231, 245<sup>2</sup>  
 speech act, 128–131, 131<sup>4</sup>, 132–134, 136, 141–143, 480, 487, 490  
 speech act verb, 128–132, 134, 135, 140, 141, 143  
 spell-out domain, 338, 351, 351<sup>13</sup>, 353, 354  
 stative, 27, 29–31, 34, 35, 37, 37<sup>10</sup>, 39, 41–48, 61<sup>6</sup>, 101, 102, 227, 229, 229<sup>3</sup>  
 structural case, 404, 405  
 subjunctive, 217, 219–226, 229, 232, 235–237  
 subjunctive mood, 217, 219, 221, 224  
 subordinate clause, 223, 478, 478<sup>1</sup>, 484, 488  
 syncretism, 170, 171<sup>4</sup>, 176, 187, 188, 403<sup>3</sup>, 431, 432, 435, 439  
 syntax-semantics interface, 26, 170, 177, 178, 181, 186  
 topicalization, 245, 254, 254<sup>4</sup>, 255, 406, 407, 407<sup>8</sup>, 418, 419, 422, 423  
 transitive verb, 150, 155, 156, 163, 164  
 unaccusative, 373, 375, 385  
 verbal, 37, 39, 55, 56, 59–61, 65, 70, 71, 73, 120, 128, 130<sup>2</sup>, 134, 143, 149, 177, 227, 242–244, 248, 256, 292, 480–482  
 vowel inventory, 111–114, 116, 117  
 vowel reduction, 109–113, 115, 117, 120–123  
 word order, v, 27<sup>2</sup>, 35, 47<sup>13</sup>, 56, 68, 71, 72, 231, 242, 252, 253, 360, 361, 361<sup>2</sup>, 362, 368<sup>5</sup>, 369, 373, 374, 407<sup>8</sup>



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