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The syntactization of kinship in vocative phrases

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Current studies point out that vocative phrases encode the social relation between speaker and addressee by the interaction of various means, i.e., prosody, lexical options, morpho-syntactic operations. As a contribution to this body of research, this paper focuses on reversed vocatives, and develops two main arguments: (i) vocative phrases provide the default domain for the morpho-syntactic encoding of speaker's social superiority; and (ii) reversed vocatives are a case in order, where the syntactization of the kinship rank ensures the speaker's upper-hand in the social relation. Formally, the mapping of the kinship feature entails syntactic head splitting, so the analysis confirms that the derivations concerning the conversational field conform to the general split-and-remerge options available to functional heads (on a par with D, C, T fields).

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1 Introduction

The morpho-syntactic processing of the addressee received increased attention in recent studies that focus on allocutive or on honorific elements merged in the clause. In this respect, dedicated particles or verb endings mark not only the biological traits of the addressee (i.e., gender or age with allocutives; see Miyagawa 2012; Haddican 2018; Zu 2018; Alok 2021 a.o.) but also the relative position of the interlocutors in a social hierarchy, or the closeness of their relation (see the honorifics in Portner et al. 2019 a.o.). Crucially, the type of social relation encoded in the clausal domain varies from one language to another, hence the need to investigate the underlying mechanism that allows for the syntactic mapping of this information while also providing room for morphological and lexical variation in its implementation.

While the encoding of social relations through allocutive agreement in the clausal domain attracted the attention of a number of scholars working on a variety of languages (see the contents of this volume), less attention has been paid to the encoding of similar information within the nominal domain, particularly in the forms of direct addresses that qualify as Vocative Phrases (VocP), in which the speaker overtly identifies the addressee and their social relation (Zwicky 1974; Stavrou 2014 a.o.). In this respect, previous studies (Arsenijević 2007; Abdulaze & Ludden 2013; D’Avis & Meibauer 2013 a.o.) notice that, cross-linguistically, dedicated particles (some of which arise from the grammaticalization of pronouns) merge in VocPs to express the speaker’s disapprobation for an addressee with a lower social status.

Following this line of research, this paper focuses on two questions: (i) What is the mechanism that encodes disapprobation in VocPs, and (ii) how does that extend to the complex VocP structures known as *reversed vocatives*?

Most data come from standard modern Romanian, where VocP displays morphological complexity on an apparently optional basis: the vocative noun may or may not display vocative case inflection (VOC as in (1a)), definite articles (‘the’ as in (1b)), and/or dedicated vocative particles (VOC-P as in (1c)), or be substituted by a vocative particle (1d).

- (1) a. Dan/ Dane, ce mai faci?
 Dan Dan.VOC what more do.2SG
 ‘Dan, how are you?’
- b. Radu/ Radule, ce mai faci?
 Radu/ Radu.the.VOC what more do.2SG
 ‘Radu, how are you?’
- c. (Măi) Dan/ Dane, Radu/ Radule, ce mai faci?
 VOC-P Dan Dan.VOC Radu/ Radu.the.VOC what more do.2SG
 ‘Dan/Radu, how are you?’

- d. (Măi) ce mai faci?
 VOC-P what more do.2SG
 ‘How are you?’

In addition, the kinship rank of the speaker may also be lexicalized through *reversed vocatives*, as in (2).

- (2) Dane mamă, ce mai faci, puiule? Romanian
 Dan.VOC mother what more do.2SG baby.chicken.the.VOC
 ‘Dan, how are you, my baby?’

In (2), *mamă* ‘mother’ indicates the speaker’s kinship status, and in the name of this kinship the mother feels entitled to express maternal baby endearment toward an adult son. Hence, the vocative belittles the social standing of the addressee, notwithstanding the positive feelings (adult sons feel embarrassed if that is witnessed by strangers).

The working hypothesis is that VocP contains a formal inter-personal [i-p] feature whose checking and valuation varies at intra- and cross-linguistic levels, as shown in Hill (2014). The variations are conditioned by the options for feature valuation, which may or may not take place; if it does, the inquiry should clarify to what extent it captures the social relation between interlocutors. Along these lines, the argument is that unvalued [i-p] does not provide information about the relation between speaker and addressee, beyond what may be inferred through the principle of compositionality from the sentence. On the other hand, the valued [i-p], by means of dedicated particles, vocative case marking or grammaticalized lexical items, explicitly encodes, at various degrees, the social status of the addressee, as well as the personal relation between the interlocutors.

Building on this proposal, this paper argues that reversed vocatives as in (2) arise from an instance where the [i-p] value is fixed for the identification of the kin status. Unlike the allocutive markers that merge in the clausal domain, which generally signal biological gender and/or honorificity and deference, reversed vocatives serve to systematically assert the speaker’s kinship rank superiority over the addressee. Honorific particles such as seen in the clausal domain in Japanese (Oguro 2015; Miyagawa 2022 a.o.) or Korean (Portner et al. 2019 a.o.) do not occur within VocP despite the presence of [i-p], for which such particles or their equivalent should qualify as goals. As a general empirical observation, particles that occur in vocative phrases do not honor the addressees but rather demote them. This observation does not entail that anti-honorifics may never be found as allocutive markers in the clausal domain of some language (in fact they are, as mentioned for Telugu in Slocum 2016), or that deference cannot be expressed through vocatives (e.g., *your majesty!*). The point is that, although there is no theoretical constraint

for the distribution of dedicated particles, the cross-linguistic tendency is to use the vocative phrase rather than the clausal domain for encoding social demotion or disapprobation.

The paper is organized as follows: Section 2 summarizes the formalisation of vocatives as structures that map the addressee. Section 3 summarizes the formalisation of the information on the social status and presents the basic structure of VocP in (14), such as proposed in Hill (2014). Section 4 builds on (14) to analyse the reversed vocatives as in (21). Section 5 provides a cross-linguistic overview of the use of vocatives as the medium for encoding disapprobation. Section 6 concludes the paper.

2 Formal features in vocative phrases: [2p]

This section summarizes the formal analyses of vocative phrases such as available in current literature. Briefly, building on the observations in Moro (2003), Hill (2007); Espinal (2013) and Stavrou (2014) conclude that vocatives involve an extra-layer of structure above the DP/NP, which accounts for the direct address interpretation of these structures, as opposed to nominal phrases that belong to reports or narratives. Theoretical justification for this extra-layer comes from previous studies, as follows:

Fink (1972) pointed out that any vocative noun receives a 2nd person reading, since it identifies the addressee. This is in contrast with non-vocative nouns, with intrinsic 3rd person features. Bernstein (2008a; b) formalizes this observation by arguing that the definite article, intrinsically endowed with a third person feature, checks and values the underspecified [person] feature of D as 3rd person; hence, vocatives are possible only if the definite article is eliminated. Instead, [person] on D is checked by N-to-D, as in Longobardi (1994), and it is pragmatically or deictically valued for 2nd person (henceforth [2p]). This contrast between vocative and non-vocative nouns is captured by binding restrictions, as in (3), where the fronted nouns allow for different co-reference with the verb arguments according to whether they are vocatives or topics.

- | | | | | |
|-----|----|---|----------|-----|
| (3) | a. | Guys _i , can you _{i/*k} believe them _{k/*i} ? | English | Voc |
| | b. | The guys _i , can you _{*i/k} believe them _{i/*k} ? | English | Top |
| | c. | Fetelor _i , le _{*i/k} puteți _{i/*k} crede?
girls.the.VOC them.F can.2PL believe
'Girls, can you believe them?' | Romanian | Voc |
| | d. | Fetele _i , le _{i/*k} puteți _{i/*k} crede?
girls.the them.F can.2PL believe
'The girls, can you believe them?' | Romanian | Top |

Hill (2007) adopts the line in Longobardi (1994) but points out that N-to-D is not sufficient to account for Romanian vocatives that not only maintain the definite article but also add a

vocative case ending to it (e.g., in (3c) above). So an extra-layer over DP is proposed, as RoleP, which is relabeled VocP in Haegeman & Hill (2010); Espinal (2013); Hill (2014); Stavrou (2014). Furthermore, following D'Hulst et al. (2007), Hill (2007; 2014) shows that not only NPs may qualify as vocatives, through head-to-head movement (as implied in Longobardi 1994 and argued for in Espinal 2013), but also DPs (e.g., [*My wonderful daughter*], *how are you?*). Formally, the proposal is that, in vocative structures, the person feature comes as uninterpretable [2p], and it is associated with a different head, higher than D, which allows this feature to be checked either by DP or by N. [2p] probes D or N, whichever comes first, and either head-to-head or phrasal movement to Spec takes place, yielding the hierarchy VocP > (DP) > nP.

Another peculiarity of vocative phrases to be accounted for was that many languages display dedicated vocative particles that have an intrinsic 2nd person reading, and which may either alternate or cooccur with a vocative N/NP, as shown in (1c) and further in (4) (a cross-linguistic list of such particles is available in Hill 2014).

- (4) a. (Bre) mamaie, te rog eu să mergi la doctor. Romanian
 VOC-P grandma.VOC you beseech.1SG I SBJV go.2SG to doctor
 'Grandma, I implore you to see a doctor.'
- b. (Vre) jaja, ti kanis eki? Greek
 VOC-P grandma.NOM what do.2SG there?
 'Grandma, what are you doing there?'

These particles are obligatory for a noun to be interpreted as a vocative in some languages (i.e., Bantu affixes; *yaa* series in Arabic), but not in others. That is, [2p] can be checked only by such a particle in some languages, but by N/DP raising in other languages. This raises the question of why vocative particles are also seen in languages where [2p] is checked by N/DP, e.g. Romanian in (4) above. The answer in Hill (2014) is that [2p] is bundled with another feature, identified as [i-p], that allows for the mapping of the social standing of the interlocutors.

3 Formal features in vocative phrases: [i-p]

In (4a), VocP verifiably involves N-to-Voc triggered by the uninterpretable [2p] feature of Voc, since the noun displays the vocative case ending. The morpheme *bre* is a dedicated vocative particle (i.e., it does not occur in any other environment) inherently endowed with an addressee reading (i.e., it has an interpretable [2p] feature). However, the particle agrees without competing with the vocative marked noun that checks the [2p] of Voc. Notably, *bre* is optional, as indicated by the brackets around it, while N-to-Voc is obligatory. The option for this particular particle arises when the speaker intends to signal a familiar and slightly condescending address, restricted to the elderly, and which would be inappropriate for an addressee of his/her age bracket. Hence, VocP has not only [2p] as a formal feature, but also a feature that syntactically encodes (i.e.,

triggers the merging of particles for feature checking operations) the inter-personal [i-p] type of relation between speaker and addressee.

There are tests that confirm the morpho-syntactic status of the vocative particle, as opposed to considering it a post-syntactic phenomenon (Hill 2007; 2014). Incidentally, the tests also demonstrate that the particle merges within VocP, as opposed to merging on the clausal spine, concurrently with VocP. An overview of these tests follows in the remainder of this section.

3.1 Location in VocP

The placement tests indicate that there is a formal feature within VocP that triggers the merging of vocative particles concurrently with N-to-Voc. This feature is identified as [i-p], and it belongs to the feature bundle associated with Voc (i.e., [2p],[i-p]).

3.1.1 Obligatory adjacency

Vocative particles cannot be separated from the vocative noun by intervening interjections or constituents, as shown in (5), whereas speech act particles shown to merge on the clausal spine (Haegeman & Hill 2013 among many others), allow for such separations, as shown in (6).

- (5) a. (Mda) bre (*mda) tataie, un' te duci? Romanian
 INT VOC-P INT grandpa.VOC where REFL.2SG go.2SG
 'Hm, grandpa, where are you going?'
 b. *Bre un' te duci tataie?
 VOC-P where REFL.2SG go.2SG grandpa.VOC
 Intended: 'Where are you going, grandpa?'
- (6) a. Hai (mda) bre (*mda) mamaie, e bine.
 PART INT VOC-P INT grandma.VOC is good
 'Ok, hm, grandma, everything is fine.'
 b. Hai, e bine, bre mamaie.
 PART is good VOC-P grandma.VOC
 'Ok, everything is fine, grandma.'
 c. *Hai bre, e bine, mamaie.
 PART VOC-P is good grandma.VOC
 Intended: 'Ok, everything is fine, grandma.'

3.1.2 C-command

Related to the obligatory adjacency shown in (5) is the property of the vocative particle to select the nominal phrase. This concerns not only the matching of semantic properties (e.g., *bre*

for elderly and *măi* for peers) but also the syntactic derivation. That is, the vocative particle is always higher than the vocative noun. If the vocative particle is a free morpheme, then it surfaces higher than the noun, as in (7). If it is a bound morpheme, it encliticizes on the noun or the noun phrase, as in (8).

- (7) a. **Re** pedja, ti ine afta? VS *Pedja **re**,... Greek
 VOC-P kids what are these kids VOC-P
 ‘Hey kids, what is this?’
- b. **Bre** mamaie, VS *Mamaie **bre**,... Romanian
 VOC-P grandma.VOC grandma.VOC VOC-P
- (8) a. Stefane**be**,... VS ***Be** Stefane,... Bulgarian
 Stefan.VOC-P VOC-P Stefan
- b. mogatsaka VS ***a** mogatsake,... Setwana
 my.husband.VOC-P VOC-P my.husband

Further evidence for the c-command position of the vocative particle within VocP comes from coordination, as in (9): the particle selects the Coordination Phrase containing the two noun phrases, since it cannot be repeated on the second constituent while maintaining the prosodic unit (i.e., only one high pitch). Reversing the order of constituents yields ungrammaticality, as in (9d), indicating that the particle is necessarily higher and c-commanding or else it cannot be co-referent with the vocative nouns.

- (9) a. Vre Maria ke (*vre) Kosta,... Greek
 VOC-P Maria and VOC-P Kosta
 ‘Maria and Kosta,...’
- b. Bre tată și (*bre) unchișorule,... Romanian
 VOC-P father and VOC-P uncle.the.VOC
 ‘Father and uncle,...’
- c. Bre majko i (*bre) leljo,... Bulgarian
 VOC-P mother.VOC and VOC-P aunty.VOC
 ‘Mother and aunty,...’
- d. [Tată și unchișorule]_i, nu plecați, (*bre)_i. Romanian
 father and uncle.the.VOC not leave.IMP.2PL
 ‘Father and uncle, don’t leave.’

By contrast, speech act particles merged on the clausal spine occur lower than a coordinated vocative, as *haideți* in (10), as long as the clause is maintained as one prosodic unit.

- (10) (Măi) fraților și cumnaților, **haideți**
 VOC-P brothers.the.VOC and brothers.in.law.the.VOC PART
 să ne înțelegem. Romanian
 SBJV REFL.1PL agree.1PL
 ‘Brothers and brothers-in-law, let’s find an agreement.’

3.1.3 Agreement

The choice of a vocative particle is not free, as it has to be appropriate for the type of personal relation while also displaying the morphological form that agrees with the gender of the addressee. In Romanian, for example, *măi* is gender neutral and indicates a familiar relation between peers. On the other hand, *bă(i)* is exclusively masculine and *fă(i)* is exclusively feminine, and both signal the speaker’s lack of refinement and/or lack of respect for the addressee. The point is that these choices are made during the syntactic derivation, since the presence of a vocative particle restricts the options for the checking of Voc features. For example, if *fă* is in the Numeration, then N-to-Voc is the only option for VocP to converge, while in the absence of this particle either N-to-Voc or DP/NP to Spec,VocP are possible. The restriction indicates that the particle merges in Spec, VocP and competes with DP/NP raising to the same Spec, while allowing for head-to-head movement.

In sum, the data indicate that the vocative particle is syntactically computed in the derivation of VocP: it displays agreement with the relevant nominal phrase and remains adjacent to it. Its optionality indicates that it is not required for the checking of [2p] but for the checking and valuation of a concurrent formal feature (labelled as [i-p]) that classifies a social relation. That is, when the particle is absent, N-to-Voc checks both [2p] and [i-p], but the latter remains unvalued, and the nature of the personal relation is inferred from other linguistic or extra-linguistic information. When the particle is merged, [i-p] is not only checked but also valued by it, for an unambiguous reading concerning the speaker’s relation with the addressee. This approach provides a uniform account on the internal structure of VocP cross-linguistically: while all languages generate VocP based on the same feature bundle (i.e., [2p],[i-p]), the checking and valuation of these features leaves room for a wide range of variations.

3.2 Variation in the processing of Voc features

This section further clarifies the ways in which vocative nouns and vocative particles are used in conjunction or separately to check and value [2p] and [i-p]. The gist is that either the noun or the particle is sufficient to allow the derivation to converge, but they may also share the checking and the valuation tasks. In particular, the interpretation is slightly different with each derivational option, which supports the idea of having [i-p] in addition to [2p].

3.2.1 Vocative particles

Cross-linguistically, languages in which the vocative particles are free morpheme use these items either on obligatory or on optional basis, and allow them to occur in conjunction with vocative nouns, as shown in the examples so far, or independently, as in (11).

- (11) a. Bre, te rog eu să mergi la doctor. Romanian
 VOC-P you beseech.1SG I SBJV go.2SG to doctor
 ‘Grandma, I implore you to see a doctor.’
- b. Vre, ti kanis eki? Greek
 VOC-P what do.2SG there?
 ‘Grandma, what are you doing there?’
- c. Yaa (Layla), dade amma-ye? Arabic
 VOC-P Layla mother where-COP.3G
 ‘Layla, where is mother?’

The paradigm in (11) indicates that the vocative particle can check the bundle of features on Voc, and may or may not also value the [i-p] feature. The latter ability depends on whether an informal reading is also intrinsic to the particle, in addition to the addressee reading (yes for Greek and Romanian *bre/vre*, no for Arabic *yaa*).

3.2.2 Vocative case ending

Romanian nouns marked for vocative case not only check [2p],[i-p] but also value the latter in the absence of a dedicated particle. That, however, does not exclude a particle. Consider (12).

- (12) a. Dan, vino azi. = neutral Romanian
 Dan come.IMP.2SG today
 ‘Dan, come today.’
- b. Dane, vino azi. = informal
 Dan.VOC come.IMP.2SG today
 ‘Dan, come today.’
- c. Măi Dane, vino azi. = very informal
 VOC-P Dan.VOC come.IMP.2SG today
 ‘Dan, come today.’

The unmarked form (12a) gives no information on the inter-personal relation – only the intonation may fill up that gap. The marked form (12b) signals informality, irrespective of intonation, and the degree of informality would be increased by the addition of a vocative particle (12c). That is, the particle and the vocative case ending share the task in the valuation of [i-p].

3.2.3 The definite article

The inference from Longobardi (1994) and Bernstein (2018a; b) is that English vocative phrases disallow definite articles for two reasons: (i) the article brings an interpretable 3rd person feature that clashes with the 2nd person feature of the vocative; and (ii) as a free morpheme in D, the article blocks N-to-D, which is obligatory for the derivation to converge (since N must check [person] in D). Cross-linguistic variation, e.g., Romanian, contributes more information on the behavior of the definite article, and upgrades the N-to-D analysis of vocatives to N-to-Voc.

Two considerations are in order: First, vocatives do not always come as bare nouns, but they can also be complex DPs that indicate the addressee (the fake vocatives of Espinal 2013), even in English, where the definite article is preserved (e.g., [*The students from France*], *please take your seats*). Second, many languages have enclitic definite articles (e.g., most Balkan languages, including Romanian) which would not block N-movement. Both considerations support a VocP analysis, since that provides a uniform account for all vocatives, be they bare nouns or DPs; i.e., either N-to-Voc or DP to Spec, VocP can implement feature checking on [2p]. However, the presence of definite articles even on unmodified nouns, as seen in (13b), seems to challenge the generalization of a 2nd versus 3rd person feature in the structure of vocatives. That is, granting the technical availability of N-to-D in the presence of enclitic definite articles, the question still remains as to the compatibility of the enclitic, with an intrinsic 3rd person reading, and the vocative noun with a 2nd person reading.

- (13) a. *Băiat,...Romanian
 boy
- b. Băiatu', vino te rog.
 boy.the come.IMP.2SG you pray.1SG
 'Young man, please come.'
- c. Băiete, vino te rog.
 boy.VOC come.IMP.2SG you pray.1SG
 'Young man, c'mon, come please.'
- d. Măi băiat, fii cuminte.
 VOC-P boy be.IMP.2SG wise
 'My boy, smarten up.'
- e. Măi băiatule, ce faci?
 VOC-P boy.the.VOC what do.2SG
 'My boy, what are you doing?'

In Romanian, certain common nouns cannot occur in their bare form as vocatives (13a): they must display the definite article (13b), or the vocative case ending (13c), or the vocative particle (13d), or all of these options at once (13e). These examples indicate that all these marking

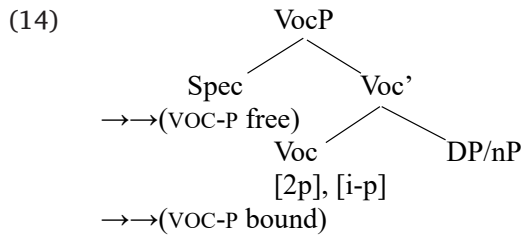
options are interchangeable, that is, they perform the same function in relation to the noun. This function concerns the qualification of the inter-personal relation between speaker and addressee. The preceding data have already shown that the vocative particle and the vocative case ending indicate different degrees of informality, and that the reading is the same for (13c, d). In the same vein, the presence of the definite article in (13b) is relevant for the qualification of the inter-personal relation: the definite article indicates a polite address (e.g., to a waiter) from a speaker who got the upper hand in a situation (e.g., a patron of the restaurant). This is different from the quasi formal address from an adult to a boy in (13c) and the informal address in a similar set up, in (13d). The cooccurrence of all these options in (13e) generally amounts to disapprobation. The point is that the presence of a vocative ending or a definite article on a vocative noun is not a matter of optional spellout, but it triggers a change in interpretation, indicating syntactic processing. Accordingly, the definite article is being recycled here, from being a 3rd person definiteness marker to being further grammaticalized as a bound vocative particle (i.e., it is stripped of its 3rd person feature), so its reading for informality comes off the syntactic configuration (i.e., its location in VocP).

Such data provide important insight in the structure of VocP: (i) It is not the case that some bare nouns are not morphologically able to be vocatives in Romanian – in fact they can, as in (13d). However, that class of nouns (e.g., nouns that spell out natural attributes: ‘boy’, ‘girl’, ‘child’, ‘old man/woman’) cannot be used without specifying the inter-personal relation between speaker and addressee. (ii) The presence of the definite article does not affect the 2nd person semantics, it only affects the reading of the inter-personal relation. Hence, the definite article has been reassigned to a different formal feature than the one associated with D. (iii) The pairing between morphological variations and interpretation indicates the presence of an underspecified formal [i-p] feature in VocP that takes its value from the item that checks it (vocative particle, vocative case ending, definite article). While feature checking is implemented by one item (e.g., N or particle), valuation can be cumulative, as shown for the disapprobation formulae in (13).

3.3 Structure and readings

Summing up the information so far, VocP contains at least two formal features that map pragmatics to syntax, as in (14): [2p] mapping the direct address; and [i-p] mapping the type of social/inter-personal relation between the discourse participants. On the basis of data and tests such as presented so far, Hill (2014) analyzes the internal structure of VocP as in (14).¹

¹ Details on the theoretical frameworks and the analysis of VocP in relation to the clause can be found in Hill (2014). (14) dispenses with Espinal’s (2013) distinction between *true* and *fake* vocatives, which are now reduced to whether the noun moves to VocP through head-to-head (*true*) or as a phrase to Spec, VocP (*fake*). Confirmation for the featural makeup of VocP in (14) and its internal organization comes from successful transfer of this analysis to European Portuguese (de Carvalho 2013), Brazilian Portuguese (Costa Moreira 2013), Arabic dialects (Soltan 2016; Al-Bataineh 2020; Abdel-Hady 2020; a.o.).



DP/nP checks [2p], either by N movement to Voc, or phrasal movement to Spec, VocP, or long distance Agree between Voc and the embedded noun. The same may also account for the checking of [i-p] when [i-p] remains unvalued and underspecified (i.e., the interpretation depends on intonation and/or pragmatic context). This is a regular, unmarked vocative phrase. However, both [2p], [i-p] or just [i-p] may also be checked and/or valued by vocative particles whose merging sites are indicated in (14): free morphemes merge as XPs in Spec, whereas bound morphemes merge as suffixes in Voc head.

Although these two features are present in the structure of VocP cross-linguistically, variation is expected in the options for feature checking and valuation. In particular, [2p] is well specified (i.e., for person value) and restricted to nominal goals (entities that qualify as addressees), whereas [i-p] comes as uninterpretable and underspecified in all the vocative data discussed so far. Hence, there is flexibility in the lexical and morphological options for items that check and value [i-p] (e.g., noun, vocative particle, vocative case ending, definite article or a combination of the above). Crucially, when optional mechanisms for valuing [i-p] are resorted to, the reading is anti-honorific in some way: familiarity, condescendence, disapprobation, all of which assert the speaker's superiority or upper-hand in the conversation.

This is not to say that vocatives cannot express respect or positive addresses, which is routinely the case, for example, when professional nouns are selected for the structure (e.g., *Doctor Johns*,...). The point is that the merging of non-obligatory vocative particles or non-obligatory bound morphemes (case endings, articles), systematically introduce a familiar and/or demoting reading.² This is in direct contrast with the addressee particles merged in the clausal domain, which are more likely to convey an honorific reading (but see Slocum 2016 for Telugu and Portner et al. 2019 for remarks on some Korean markers).

4 Reversed vocatives

Reversed vocatives (noticed in Robertson Rieschild 1998) are direct addresses that encode not only the identity of the addressee, but also the kinship relation of the speaker and the addressee, as in (15): the speaker spells out the kinship rank that gives him/her the authority to advise

² Non-obligatory in the sense that the constructions remain grammatical when these items are omitted.

or command the addressee, or to emotionally dominate the situation (the speaker steals the spotlight) or blackmail the addressee (through endearments) into doing something. Thus, these constructions are further examples of vocatives that assert the speaker's privileged standing in the conversation. The construction occurs in a wide range of languages, but is especially productive in Arabic dialects and in some Balkan languages.

- (15) a. Dane mamă, fii atent. Romanian
 Dan.VOC mother be.IMP2SG careful
 'Be careful, Dan.' (a mother addresses her son Dan)
- b. smæf-i-ni ja mamæ Lebanese
 IMP.hear-2F.SG-me VOC-P mother
 'Listen to me.' (a mother addresses her daughter) (Robertson Rieschild 1998:623)
- c. Mancia a minestra, u papà. Sicilian from Palermo
 eat.IMP.2SG the soup the dad
 'Eat the soup.' (a father addresses his child) (Iovino & Rossi 2014: 261)

In (15), the vocative seems to occur in doubles: while the addressee is identified by name (*Dane* in (15a)), by the vocative particle (*ja* in (15b)) or by the inflection of the imperative verb in (15c), the speaker is also signaled in terms of a kinship relation to the addressee, i.e. 'mother' or 'dad'. The reading does not allow us to classify 'mother' or 'dad' as exclamations (i.e., non-address), since they fully indicate the participant (i.e., first person) versus the generic use of 'mother' (i.e., third person) in an exclamation, e.g., for the general purpose of complaining (e.g., *Mamă ce de lume!* 'mother what a crowd'/'*Mamma mia*, so many people!'). Thus, by interpretation and deictic value, this noun qualifies as a vocative. The kinship noun reverses the attention from the identification of the addressee to the speaker's kin rank, which becomes the spotlight. Due to the kin rank, the speaker can issue orders, pleas, endearing requests and so on. Notably, this social relation is personal and individualistic: neither the addressee nor the kin rank may come in plural or in coordination phrases.

Crucially, the speaker is never identified with regard to his/her name but only with regard to the kinship standing. Thus, the first observation is that the relevant nouns encode a social relation, not the [speaker] feature (i.e., not [1p]) that can be seen in the speech act area of the clausal structure. That is, this vocative construction cannot substitute a name to the kinship noun, nor can it refer to any possible speakers (e.g., a teacher, a stranger, a friend etc.), but only to those who qualify for a kinship relation. This is a cross-linguistic generalization, variation arising only in the composition of the lexical set: while 'mother' and 'father' occur across the board, other kinship nouns may vary from one language to another (e.g., 'aunt' does not occur in Romanian but it does in Arabic dialects, Georgian, Armenian, Albanian; Braun 1985: 83; Boeder 1989: 14).

When it comes to intonation, reversed vocatives form one prosodic unit, with one high pitch. When both the addressee and the kinship nouns are present (15a, b), the pitch falls on the addressee noun/particle; when the kinship noun occurs by itself (15c), it carries the pitch.

Reversed vocatives display morpho-syntactic restrictions with respect to the form of the lexical items and to the permissible word order. First, the word order addressee > kinship noun is fixed within the prosodic unit, as in (16a), or else ungrammaticality ensues, as in (16b).

- (16) a. (Măi) Dane mamă, un' te duci? Romanian
 VOC-P Dan.VOC mother where REFL.2SG go.2SG
 'Dan, where are you going?'
- b. *(Măi) mamă Dane, un' te duci?
 VOC-P mother Dan.VOC where REFL.2SG go.2SG

Second, as long as the two items belong to the same prosodic unit, adjacency is obligatory. With two prosodic units, the vocative can be split, as in (17a), on the condition that the hierarchy is maintained; that is, the addressee c-commands the kinship noun or else ungrammaticality ensues, as in (17b).

- (17) a. Dane, nu te mai necăji, mamă. Romanian
 Dan.VOC not REFL.2SG more upset mother
 'Dan, don't worry.'
- b. *Mamă, nu te mai necăji, Dane.
 mother not REFL.2SG more upset Dan.VOC

In fact, (17b) triggers a misleading analysis: 'mother' is parsed as the subject of the imperative, instead of the intended 'Dan'. This indicates that the kinship noun must be kept away from 2nd person features, and its licensing somehow depends on the addressee noun.

Third, the complexity of the lexical items involved is very reduced. The kinship noun cannot be modified, as shown in (18a). The licit version comes as a frozen bare form. An exception occurs for the pragmaticized use of 'dear', as in (18b). However, 'dear' is an attribute of the addressee, not of the speaker (i.e., 'dear son' not 'dear mother'), despite its insertion in the kinship phrase. Inflectional endings are disallowed on the kinship noun, as in (18c), so the noun is bare, unless it comes as a diminutive, in which case the definite article and the vocative case marking are obligatory, as in (18d). The inflected forms of the kin noun are generally preferred when the addressee is non-lexical (18d).

- (18) a. *Dane [mamă iubitoare], vino la masă. Romanian
 Dan.VOC mother loving come.IMP.2SG to table
 Intended: 'Dan, come to eat (your loving mother tells you that).'

- b. Dane [mamă dragă], vino la masă.
Dan.VOC mother dear come.IMP.2SG to table
'Dan (mom's dear boy) come to eat.'
- c. *Dane mama, vino la masă.
Dan.VOC mother.the come.IMP.2SG to table
- d. Vino la masă, tăticule.// ?Dănuț mămico vino....
come.IMP.2SG to table dad.the.VOC Dan.DIM mom.VOC come.IMP.2SG
'Come to eat (dad tells you that)'/ 'Dan come (mom tells you that)'

The examples in (18) indicate that the kinship noun has a DP structure, since an adjective (18b) and a definite article (18d) can be merged with N (although the adjective modifies the speaker).³ The fact that the inflected form is dis-preferred indicates a path of grammaticalization, whereby the XP is gradually reanalyzed as an X item (van Gelderen 2011).⁴ The target stage is not yet attained at this time, so the kin noun may have a mixed DP/D/N status. In sum, the kinship noun tends to be bare. However, its syntactic status is not that of a head, since variations are possible in which N has an adjective like 'dear' in its specifier, which modifies the addressee noun when the latter moves through Voc2 as shown below in (21). The same kinship noun may also display definite articles, as in (18d), which indicates that it can also project to DP. Hence, the bare use is only the default, not the exclusive occurrence of the kinship noun in reverse vocatives, and the possibility of having the other options indicates that the kinship noun is rather phrasal (vs head).

On the other hand, the addressee noun is systematically bare with reversed vocatives. DP/NPs rule out the construction, as shown in (19b) (hence the placement of 'dear' in (18) with the kinship noun, which is phrasal, instead of being merged with the vocative noun).

- (19) a. [Dănuța mea,] vezi ce faci. Romanian
Dănuța my mind.IMP.2SG what do.2SG
'My dear Dănuța, pay attention to what you are doing.'

³ In some regional varieties of Italian and in some dialects of Central and Southern Italy (for example, the dialect of Palermo, Sicily, and the dialects spoken in Palma Campania and Marano, near Naples), the DP structure of the kinship noun is always visible, either through the presence of a definite article or a possessor, as in (i), from Iovino & Rossi (2014):

- (i) Mangia la minestra, (a) papà (tuo).
eat.IMP.2SG the soup of dad your
'Eat your soup.' (endearing address from a father to his child)

These vocatives were mentioned in other works, more recently in Savoia (1984); Braun (1988); Abbate (2010); Sgroi (2012). Many of these authors point out that they are restricted to baby talk.

⁴ Grammaticalization through reanalysis is formalized in van Gelderen (2011) as a diachronic change by which UG Economy Principles always push for less structure, and which involves a cyclic process transitioning from XP to X.

- b. *[Dănuța mea] **mamă**, vezi ce faci.
 Dănuța my mother mind.IMP.2SG what do.2SG
- c. Dănuțo **mamă**, vezi ce faci.
 Dănuța.VOC mother mind.IMP.2SG what do.2SG
 ‘Dănuța, mind what you are doing (I’m telling you as your mother).’

In (19a), a regular VocP contains a DP that identifies the addressee (DP moved to Spec, VocP). The DP structure is signalled by the presence of the possessive pronoun, which merges only in DP fields. The same DP rules out the reversed vocative in (19b). However, if the possessive pronoun is deleted, as in (19c), the reversed vocative is grammatical, with or without the vocative case ending on the addressee noun. This indicates that the addressee noun systematically undergoes head (versus phrase) movement when reversed vocatives apply.

As a final observation, for a vocative phrase to qualify as a reversed vocative, the kinship noun is obligatorily present. On the other hand, the addressee noun is not obligatorily lexical (e.g., (18d)), yet the expression is unmistakably interpreted as a direct address to a person other than the one indicated by the kinship noun. Along these lines, reversed vocatives are built on the basis of the same feature set as in regular vocatives ([2p] and [i-p]), but with a markedness component that has to be identified.

The inquiry into the markedness that generates a reversed vocative must establish, first, the domain in which the triggering formal feature occurs. So far, the observations hint to the nominal domain, in the vicinity of vocative nouns. However, one may object that the triggering formal feature could rather be associated with the clausal domain (e.g., bundled with [speaker] or [addressee]) and require the same adjacency effects in relation to VocP merged to check the [addressee] feature. That would be a reasonable assumption, since honorific particles, also reminiscent of social ranking, were shown to occur as sentence final particles (Portner et al. 2019). The following observations eliminate that hypothesis:

- If the kinship DP merged separately from VocP on the clausal spine, it should not be able to optionally carry the vocative case ending, or be modified by adjectives agreeing with the addressee (i.e., VocP is an impenetrable phase for inside agreement), contrary to the fact.
- The kinship noun provides information about the speaker, so it is expected to merge in a speaker phrase if a clause hierarchy is assumed. First, that would yield the wrong hierarchy, since the speaker is mapped higher than the addressee on the clausal spine (Speas & Tenny 2003; Portner et al. 2019; Miyagawa 2022 a.o.), which would rule out reversed vocatives, where the kinship noun is lower than the addressee noun. Second, a cross-linguistic generalization in formal studies is that speakers are silent even when

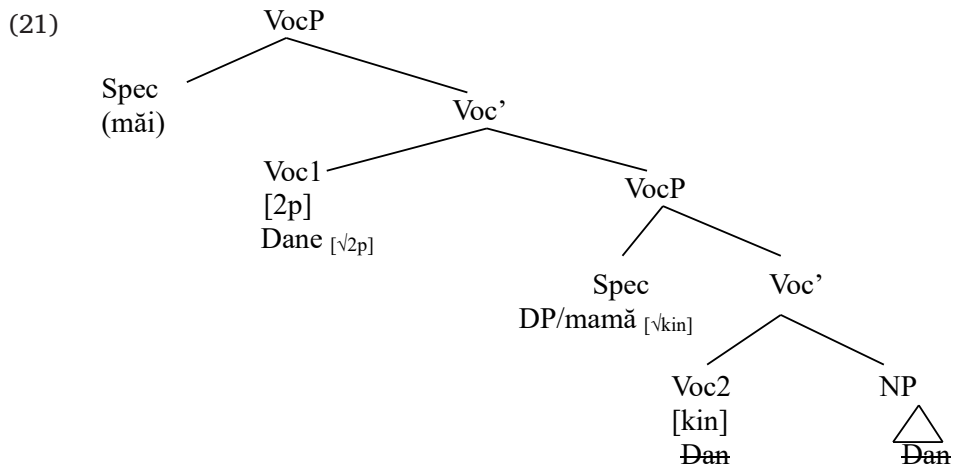
the mapping of speech acts is otherwise visible (Speas & Tenny 2003; Sigurðsson 2004; 2011; Miyagawa 2022 a.o.). The merging of the kinship noun as the spellout for the [speaker] role would be an exception to this rule, and an ad-hoc solution with no independent support.

- The type of movement to VocP (i.e., phrasal or head-to-head) should not be constrained by the presence of a kinship noun (contrary to the fact), if the kinship noun is external to the nominal phase.
- Independent merging on the clausal spine predicts that speech act particles should be able to separate the two items, which is not the case, as shown in (20c), contrasting with the optional placement of the speech act particle in (20a, b), where either relevant item occurs separately. This is a constituency test, leaving no doubt that the two items involved in the derivation of reversed vocatives belong to the same constituent.

- (20) a. (Hai) Dane (hai) vino la masă. Romanian
 PART Dan.VOC PART come.IMP.2SG to table
 ‘C’mon, Dan, come to eat.’
- b. (Hai) mamă (hai) vino la masă.
 PART mother PART come.IMP.2SG to table
 ‘C’mon, come to eat (your mom tells you that)’.
- c. (Hai) Dane (*hai) mamă (hai) vino la masă.
 PART Dan.VOC PART mother PART come.IMP.2SG to table
 ‘C’mon, Dan, come to eat (your mom tells you that)’.

Once the clausal spine is excluded from consideration, the VocP domain remains the alternative for the generation of reversed vocatives. Building on the analysis of VocP in (14), that is, two formal features that map the addressee semantics as [2p] and the social relation as [i-p] bundled on Voc (see14)), it follows that reversed vocatives involve a further manipulation of the [i-p] feature that triggers the merging of a kinship noun. In these constructions, the trait that makes the [i-p] feature different from a regular vocative is its strict specification; that is, while in regular vocatives [i-p] is underspecified and can be checked and valued by a variety of items (generating a variety of familiar and/or disapprobation readings), in reversed vocatives [i-p] is strictly reserved for kinship ranking. Hence, [i-p] is reanalyzed as [kin], and VocP is marked.

Along these lines, the markedness of a VocP that supports a reversed vocative arises from the dissociation of [2p] and [kin]: the two features do not bundle on Voc, as in (14), since N-to-Voc, vocative particles that may check [2p] do not qualify to check [kin]. Instead, a noun with kinship semantics is introduced, in a split VocP structure, as in (21).



In (21), [2p] and the [kin] version of [i-p] are mapped to separate Voc heads. The noun spelling the addressee undergoes N-to-Voc, and obligatorily checks Voc1 for [2p], which is the feature that qualifies VocP as an argument in the speech act projection at the left periphery of clauses. That is, due to this feature, VocP becomes visible to the [addressee] role feature mapped on the clausal spine (e.g. as AddresseeP in Miyagawa 2022). Hence, this feature is necessarily located in the highest Voc head: only the item merged at the edge of VocP1 is visible to the [addressee] probe from the clausal spine. This is sufficient to justify the constraint on hierarchical order within the reversed vocative, as signaled for (17b), i.e., the vocative noun is higher than the kinship noun. On the other hand, the kinship noun merges directly in Spec, VocP2 and checks and values [kin]. Incidentally, due to the Spec-head agreement between the vocative noun and the kinship noun in VocP2, the Vocative Case marking may be shared by the two nouns at PF (e.g., *Dane mămico* ‘Dan.VOC mother.VOC’ is possible for some speakers).

Notably, (21) conforms to the general property of heads to split when the features associated with them are (for various reasons) checked by different lexical items. In this particular case, Voc splits when [i-p] comes specified as [kin], but remerges when [i-p] is underspecified and can be checked in a bundle with [2p]. Similar split/remerging derivations have been noticed with most functional heads, especially in the process of language change (e.g., in Hill & Alboiu 2016 for Romanian), so (21) is not structurally exceptional.

A note on vocative particles is in order: These particles are not excluded from (21), although [kin] is checked by a different item. The familiarity that the particle introduces in regular vocatives is already present in (21), since the kinship noun has an inherent specification in that respect. In (21), the particle has the effect of enhancing the speaker’s eagerness in the negotiation with the kin addressee. This may indicate a cumulative valuation of [kin], or alternatively, a separate bundling of [kin] with an underspecified [i-p]. This type of cooccurrence is infrequent, but grammatical, and may signal a further markedness development within VocP.

Technically, the DP status of the kinship item (see (18d)) and its merge in a Spec position blocks the DP movement of the addressee noun to Spec, VocP1, but it does not interfere with its head-to-head movement to Voc1; hence, the restriction on vocative noun modification illustrated in (19b). Since this configuration leaves Spec, VocP1 available, a vocative particle may directly merge at that location; hence, the optional presence of the particle in (16)/(21). The local Spec-head agreement that obtains when the addressee noun moves through Voc2 explains the possible inflectional copy of the vocative case ending. Although both the addressee and the kin nouns may display this ending (18d), the default option is to place it only on one of them, preferably on the addressee noun.

Cross-linguistic variation with reversed vocatives is superficial: it concerns the set of kinship nouns and inflectional options (presence or absence of vocative case endings, of vocative particles, definite articles or possessives), but there is no evidence that would challenge the underlying structure in (21).

5 Cross-linguistic perspective

This paper provided mostly Romanian data to argue that the default domain for encoding disapprobation or the speaker's superior ranking over the addressee is the vocative phrase rather than the clausal field dedicated to the mapping of the conversational pragmatics. However, as shown in this section, observations along these lines abound in the literature on vocatives, although the point hasn't been nailed down so far regarding the contrast with the use of the clausal space for the default mapping of honorifics. For more clarity, this paper does not claim that the expression of respect for higher ranks is not possible through vocative phrases (actually, the opposite is stated), but that speakers who intend to express disapprobation or social superiority of some kind would more likely than not opt for a VocP structure to do that.

In this respect, the grammaticalization of the pronoun 'you' to a vocative particle is well attested as a means of encoding disapprobation especially in languages that do not display dedicated vocative particle or articles to implement it, as we saw for Romanian in section 3. English *you idiot!* (versus genuine *#you hero!*) is discussed in Arsenijević (2007), and similar grammaticalization, with similar interpretive effects, are pointed out for German *du* and Swedish *din* (D'Avis & Meibauer 2013). The Georgian grammaticalization of 'you' ends up with morphologically shorter forms (i.e., *še* < *šen* (SG); *tkve* < *tkven* (PL)) and serves a disapprobation function as well: "It has to be mentioned that the adjectives and nouns in these expressions almost always have a negative (pejorative) connotation" (Abuladze & Ludden 2013: 28). In Romanian, the grammaticalized *tu* 'you' serves for expressing equality or camaraderie, while articles and/or case marking are reserved for disapprobation. Formally, the grammaticalized 'you' becomes a vocative particle, on a par with Rom. *bre* illustrated in (1), and merges in VocP as indicated in (14) for other vocative particles.

By contrast, this paper pointed out that the type of social relations expressed in the nominal domain by means of dedicated morphemes or case inflection within vocative phrases systematically range from informality to total disapprobation. This was shown to take place in Romanian vocative phrases by the intervention of vocative particles, vocative case marking or definite articles. Therefore, a contrast arises with respect to the mapping domains for honorifics and anti-honorifics by means of functional (versus substantive) lexical items: the former favour the clausal spine, whereas the latter abound in vocative phrases.

Abbreviations

DIM = diminutive; F = feminine; IMP = imperative; INT = interjection; IO = indirect object; NOM = nominative case; OPT = optative; PART = speech act particle; REFL = reflexive pronoun; PL = plural; SBJV = subjunctive; SG = singular; VOC = vocative case; VOC-P = vocative particle.

Competing interests

The author has no competing interests to declare.

References

- Abbate, Lucia. 2010. L'“allocuzione inversa” nell'italiano meridionale: una chiave interpretativa in base ai modelli pragmatici e cibernetici della comunicazione linguistica. In Pettorino, Massimo & Giannini, Antonella & Chiari, Isabella & Dovetto, Francesca (eds.), *La comunicazione parlata*, 145–160. Napoli: Università degli Studi di Napoli L'Orientale.
- Abdel Hady, Saleem. 2020. *The syntax of ostensible categories in Arabic*. St. John's: University of Newfoundland dissertation.
- Abdulaze, Lia & Ludden, Andreas. 2013. The vocative in Georgian. In Sonnenhauser, Barbara & Noel Aziz Hanna, Patrizia (eds.), *Vocatives! Addressing between system and performance*, 25–42. Berlin: Mouton de Gruyter. DOI: <https://doi.org/10.1515/9783110304176.25>
- Al-Bataineh, Hussein. 2020. The syntax of Arabic vocatives. *Brill's Journal of Afro-Asiatic Languages* 12(2). 328–360. DOI: <https://doi.org/10.1163/18776930-01202100>
- Alok, Deepak. 2021. Morphosyntax of Magahi Addressee Agreement. *Syntax* 24(3). 263–296. DOI: <https://doi.org/10.1111/synt.12213>
- Arsenijević, Boban. 2007. Disapprobation expressions are vocative epithets. *ACLIC Working Papers* 2. 87–98.
- Bernstein, Judy. 2008a. English *th-* Forms. In Klinge, Alex & Müller, Henrik Høeg (eds.), *Essays on Nominal Determination: From Morphology to Discourse Management*, 13–232. Amsterdam: John Benjamins.
- Bernstein, Judy. 2008b. Reformulating the Determiner Phrase Analysis. *Language and Linguistics Compass* 2(6). 1246–1270. DOI: <https://doi.org/10.1111/j.1749-818X.2008.00091.x>
- Boeder, Winfried. 1989. Über einige Anredeformen im Kaukasus. *Georgica. Zeitschrift für Kultur, Sprache und Geschichte Georgiens und Kaukasiens* 11. 11–20.
- Braun, Friederike. 1985. Umgekehrte Anrede im Arabischen. In Pieper, Ursula & Stickel, Gerhard (eds.), *Studia Linguistica. Diachronica et Synchronica*, 81–92. Berlin: Mouton de Gruyter. DOI: <https://doi.org/10.1515/9783110850604-010>
- Braun, Friederike. 1988. *Terms of Address: Problems of Patterns and Usage in Various Language and Cultures*. Berlin: Mouton de Gruyter. DOI: <https://doi.org/10.1515/9783110848113>

- Costa Moreira, Juliana. 2013. *O vocativo e a interface sintaxe-pragmática no Português Brasileiro*. Belo Horizonte: Universidade Federal de Minas Gerais dissertation.
- D'Avis, Franz & Meibauer, Jörg. 2013. Pseudo-vocative constructions and insults in German (and Swedish). In Sonnenhauser, Barbara & Noel Aziz Hanna, Patrizia (eds.), *Vocatives! Addressing between system and performance*, 189–218. Berlin: Mouton de Gruyter. DOI: <https://doi.org/10.1515/9783110304176.189>
- de Carvalho, Ana Sofia. 2013. An overview of vocatives in European Portuguese. *Linguistica Atlantica* 32. 52–58.
- D'Hulst, Yves & Coene, Martine & Tasmowski, Liliane. 2007. Romance vocatives and the DP hypothesis. In Cunita, Alexandra & Tasmowski, Liliane (eds.), *Studii de lingvistică și filologie romanică*, 200–211. Bucharest: Editura Universității din București.
- Espinal, M. Teresa. 2013. On the structure of vocatives. In Sonnenhauser, Barbara & Noel Aziz Hanna, Patrizia (eds.), *Vocatives! Addressing between system and performance*, 109–132. Berlin: Mouton de Gruyter. DOI: <https://doi.org/10.1515/9783110304176.109>
- Fink, Robert. 1972. Person in nouns: is the vocative a case? *American Journal of Philology* 93(1). 61–68. DOI: <https://doi.org/10.2307/292901>
- Haddican, Bill. 2018. The syntax of Basque allocutive clitics. *Glossa* 3(1). DOI: <https://doi.org/10.5334/gjgl.471>
- Haegeman, Liliane & Hill, Virginia. 2010. The syntacticization of discourse. Conference talk *Linguistic Interfaces 2*. December 2–4, 2010. University of Ulster.
- Haegeman, Liliane & Hill, Virginia. 2013. The syntacticization of discourse. In Trueswell, Robert & Folli, Raffaella & Sevdali, Christina (eds.), *Syntax and Its Limits*, 370–390. Oxford: Oxford University Press. DOI: <https://doi.org/10.1093/acprof:oso/9780199683239.003.0018>
- Hill, Virginia. 2007. Vocatives and the pragmatics-syntax interface. *Lingua* 117 (12). 2077–2105. DOI: <https://doi.org/10.1016/j.lingua.2007.01.002>
- Hill, Virginia. 2014. *Vocatives: How syntax meets with pragmatics*. Leiden: Brill. DOI: <https://doi.org/10.1163/9789004261389>
- Hill, Virginia & Alboiu, Gabriela. 2016. *Verb movement and clause structure in Old Romanian*. Oxford: Oxford University Press. DOI: <https://doi.org/10.1093/acprof:oso/9780198736509.001.0001>
- Iovino, Rossella & Rossi, Silvia. 2014. Alcune riflessioni sul “Vocativo Inverso” tra pragmatica e sintassi. In Marcato, Gianna (ed.), *Le mille vite del dialetto*, 219–226. Padova: CLEUP.
- Longobardi, Giuseppe. 1994. Reference and proper names: A theory of N-movement in syntax and logical form. *Linguistic Inquiry* 25. 609–665.
- Miyagawa, Shigeru. 2012. Agreements that occur mainly in the main clause. In Aelbrecht, Lobke & Haegeman, Liliane & Nye, Rachel (eds.), *Main Clause Phenomena: New Horizons*, 79–112. Amsterdam: John Benjamins. DOI: <https://doi.org/10.1075/la.190.04miy>
- Miyagawa, Shigeru. 2022. *Syntax in the treetops*. Cambridge, MA: MIT Press. DOI: <https://doi.org/10.7551/mitpress/14421.001.0001>

- Moro, Andrea. 2003. Notes on vocative case: a case study in clause structure. In Quer, Josep (ed.), *Romance languages and linguistic theory 2001*, 247–261. Amsterdam: John Benjamins. DOI: <https://doi.org/10.1075/cilt.245.15mor>
- Oguro, Takeshi. 2015. WH-Questions in Japanese and Speech Act Phrase. *Linguistica Alantica* 34(2). 89–101.
- Portner, Paul & Pak, Miok & Zanuttini, Raffaella. 2019. The speaker-addressee relation at the syntax-semantics interface. *Language* 95. 1–36. DOI: <https://doi.org/10.1353/lan.2019.0008>
- Robertson Rieschild, Verna. 1998. Lebanese Arabic reverse role vocatives. *Anthropological Linguistics* 40(4). 617–641.
- Savoia, Leonardo M. 1984. *Grammatica e pragmatica del linguaggio bambinesco (Baby talk): la comunicazione realizzata in alcune culture tradizionali*. Bologna: Clueb.
- Sigurðsson, Halldor Á. 2004. The syntax of Person, Tense, and speech features. *Italian Journal of Linguistics/Rivista di Linguistica* 16. 219–251.
- Sigurðsson, Halldór Á. 2011. Conditions on argument drop. *Linguistic Inquiry* 42. 267–304.
- Sgroi, Salvatore Claudio. 2012. Le vocatif et l'allocution inverse' en italien. *Rivista Italiana di Linguistica e Dialettologia* 14. 65–88. DOI: https://doi.org/10.1162/LING_a_00042
- Slocum, Poppy. 2016. *The syntax of address*. Ph.D dissertation, Stony Brook University.
- Soltan, Usama. 2016. The syntax of vocatives in Egyptian Arabic. The Annual Arabic symposium on Linguistics, Middlebury College, United States
- Speas, Peggy & Tenny, Carroll. 2003. Configurational properties of point of view roles. In Di Sciullo, Anne Marie (ed.), *Asymmetry in grammar*, Vol. 1, 315–345. Amsterdam: John Benjamins. DOI: <https://doi.org/10.1075/la.57.15spe>
- Stavrou, Melita. 2014. About the Vocative Phrase. In Schürcks, Lilia & Giannakidou, Anastasia & Etxeberria, Urtzi (eds.), *Nominal structure in Slavic and beyond*, 299–342. Berlin: Mouton de Gruyter. DOI: <https://doi.org/10.1515/9781614512790.299>
- van Gelderen, Elly. 2011. *The Linguistic Cycle: Language Change and the Language Faculty*. Oxford: Oxford University Press. DOI: <https://doi.org/10.1093/acprof:oso/9780199756056.003.0001>
- Zu, Vera. 2018. *Discourse Participants and the Structural Representation of the Context*. New York University dissertation.
- Zwicky, Arnold. 1974. Hey, what's your name! In Fox, Robert & Bruck, Arnold (eds.), *Papers from the 10th Regional Meeting of the Chicago Linguistic Society*, 787–801. Chicago: CLSI.

