

Microparameters of DP-Licensing and Case Discrimination

I. Introduction. A recent hypothesis denies the existence of NOM/ABS Case in narrow syntax (Konrnfilt & Preminger 2015; Levin 2015) and rather interprets ‘morphological’ NOM/ABS-forms as defaults, inserted for a *u*CASE-feature that did not receive a value. Following Preminger (2014), the lack of valuation does not induce crashing, contra the standard Case Filter. This leaves examples like **/Mary to win/ would be surprising* (*ibid.*: 234) without an account, since Case-valuation no longer derives DP-licensing. In response, Kalin (2018) suggests that ϕ -agreement alone licenses DPs.

The present paper, however, proposes that the correlation between Case-valuation and ϕ -agreement must nevertheless be formally expressed. I propose a definition of AGREE that ‘checks’ whether a DP bears any unvalued features (*u*Fs) before it initiates ϕ -matching. In addition, I propose that a *u*F on a DP needs to be either (i) valued, (ii) or licensed by entering into an AGREE relation with a ϕ -probe. This will derive DP-licensing and also tie it to Case-valuation. Such a system is able to derive different micro-parameters of DP-licensing and also Case Discrimination/‘Activity Condition’ effects (Chomsky 2001; Bobaljik 2008) in agreement patterns. I consider data from Slovenian, Icelandic and Basque to illustrate the interaction of the proposed micro-parameters.

2. DP-Licensing, Case and Unvaluedness. Data from languages such as Slovenian (also Hindi, etc.) suggest that DP-licensing is not entirely regulated by ϕ -agreement, but is still intimately tied to the [CASE]-feature specified on the DP in question. In Slovenian, overt NOM-DPs are systematically banned from position that are not agreed with, but this is not true of non-NOM-DPs:

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| <p>(1) [(<i>*Janez</i>) jest <i>pico</i>] <i>je fino</i>.
 <i>John</i>_{NOM} eat-INF <i>pizza</i>_{ACC} is nice
 ‘To eat pizza is nice.’</p> | <p>(2) [<i>Janezu bit</i> <i>všeč</i> (<i>*Marija</i>)] <i>je fino</i>.
 <i>John</i>_{DAT} be-INF like <i>Mary</i>_{NOM} is nice
 ‘To be liked by John is nice.’</p> |
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NOM-subjects cannot be overt in INF-(in)transitive clauses (1), while NOM-objects cannot be overt in INF-Quirky Clauses (2). Since DAT-DPs are not agreed with in any way in Slovenian (details in sect. 2.2), it means that they do not need to be licensed by ϕ -agreement, but NOM-DPs do. To capture this distinction, I propose that DPs only need to be licensed if they bear a *u*F. In this instance, [*u*CASE] needs to be licensed, by entering into an AGREE relation with a ϕ -probe.

2.1 Unvaluedness. I propose that ‘unvaluedness’ be defined as a *function* or *predicate* over feature values, which is notationally similar to Preminger’s (2014) FIND(F). This means that *u* ϕ will be formally represented as *u*[ϕ]. However, this formalization also allows the possibility of recursive embedding, i.e. it is possible to embed a *u*[F] within a *u*[], yielding *u*[*u*[F]]. This allows us to state probes such as T⁰: *u*[*u*[CASE], ϕ] – such a probe searches for two things: a *u*[CASE]-feature and a ϕ -feature. This allows us to restrict probes to only DPs that carry a *u*F.

2.2 Ordered Probing and Locality. I will also assume that the probes within a X⁰ are subject to *ordering*. While the assumption on unvaluedness above is new, the ordering of features internal to a X⁰ has been proposed independently (Müller 2010; Georgi 2017) and is needed to capture several syntactic micro-parameters, including A’-movement, etc. The possibility of ordering features then implies that *u*[CASE] can be ordered to precede or follow the probing of ϕ , i.e. a language can either specify *u*[*u*[CASE] > ϕ] or *u*[ϕ > *u*[CASE]]. Furthermore, I will assume that *u* ϕ is decomposed into *u* π and *u*# (Béjar 2003; Rezac 2003), where their ordering is universally fixed (*u* π > *u*#) s.t. *u* π probes before *u*# (Preminger 2011; Coon & Keine 2018). These combined assumptions (all of which are independently needed, except for 2.1) lead to three possibilities:

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| (3) | (a) | T ⁰ : <i>u</i> [<i>u</i> [CASE] > π > #] | → Slovenian |
| | (b) | T ⁰ : <i>u</i> [π > <i>u</i> [CASE] > #] | → Icelandic |
| | (c) | T ⁰ : <i>u</i> [π > # > <i>u</i> [CASE]] | → Basque |

The three micro-parameters encode three language-types, which will be discussed shortly. One last theoretical point is necessary before we examine the data. I assume the AGREE-LINK/AGREE-COPY system (Arregi & Nevins 2012; Bhatt & Walkow 2013, etc.), where AGREE-LINK forms *links* between probes and their goals in syntax, while AGREE-COPY copies features to probes at PF via these links. I propose that AGREE-LINK is subject to the following condition:

- (4) *Relativized Probing Locality* (‘REPL’)

A probe β , s.t. *u*[... α > β ...], must attempt to LINK with the domain that was LINKED by α .

REPL requires that already established Links are effectively ‘recycled’ for further probing. As such, it makes for a plausible constraint, grounded in very basic considerations of derivational economy.

Let us now consider an illustration of the proposed system for Slovenian, which has a standard ACC-alignment agreement system. Consider the representation of a typical transitive sentence:

$$(5) \quad T^0: u \left[\overbrace{u[\text{CASE}] > \pi > \#}^{\downarrow} \right] \dots DP_{u[\text{CASE}]} \dots DP_{\text{ACC}}$$

The probe on T^0 is only able to interact with the higher $u\text{CASE}/\text{NOM}$ -bearing DP. After this first step, the ϕ -probes must also probe the subject, according to REPL. Now consider a Quirky Clause:

$$(6) \quad \text{Janezu} \quad \text{smo/ste/so} \quad \text{všeč} \quad \text{mi/vi/oni.}$$

John_{DAT} be-1/2/3PL like we/you/they_{NOM}}
 ‘John likes us/you/them.’

In Quirky Clauses, T^0 agrees with the $u\text{CASE}/\text{NOM}$ -object exclusively, regardless of its π -specification, meaning that there are no ‘Person restrictions’ at play that we usually find in different languages.

$$(7) \quad T^0: u \left[\overbrace{u[\text{CASE}] > \pi > \#}^{\downarrow} \right] \dots DP_{\text{DAT}} \dots DP_{u[\text{CASE}]}$$

Here, the first ‘argument’ of the probe is unable to interact with the DAT-subject, must skip it and probe the object. The ϕ -probes can then only interact with the object, as demanded by REPL.

Notice that this system derives two things in Slovenian. It derives the Case Discriminating nature of ϕ -agreement (Bobaljik 2008), but also DP-licensing: because there is no probe on T^0_{INF} in (1)–(2), the $u\text{CASE}$ -features are not probed and hence remain unlicensed.

3. Licensing in Icelandic. Icelandic DP-licensing is largely the same as in Slovenian, but with an important difference in the domain of Quirky Clauses. In this abstract, I concentrate on a single variety of the language, viz. Icelandic A (Sigurðsson & Holmberg 2008; Ussery 2017):

$$(8) \quad \text{Það} \quad \text{líkuðu} \quad \text{einum} \quad \text{málfæðingi} \quad \text{þessar} \quad \text{hugmyndir.}$$

there liked_{PL} one linguist_{DAT.SG} these ideas_{NOM.PL}} (Sigurðsson & Holmberg 2008)

In Icelandic, too, T^0 agrees with the object in Quirky Clauses, but only if the object is 3P. To derive this Person Restriction, I adopt the system proposed by Coon & Keine (2018), in which the Icelandic π -probe is ‘articulated’ as $[\pi - \text{PTC}]$: it seeks a $\pi(\text{erson})$ feature, but also a PARTICIPANT feature. This view also encodes the widely observed fact that DAT-DPs tend to be PP/KPs, where the P^0/K^0 hosts merely a 3P-feature. This forces the π -probe to search both DPs under this view:

$$(9) \quad \text{EXPL} \dots T^0: u \left[\overbrace{[\pi - \text{PTC}] > \#}^{\downarrow} \right] \dots DP_{\text{DAT}:3P} \dots DP_{u[\text{CASE}]:3P / * \{1,2P\}}$$

The object is probed in the hope of satisfying [PTC]. However, if T^0 does agree with [PTC] (1/2P) on the object, two conflicting values are returned to the probe (3P vs. 1/2P), which causes a ‘clash’ at PF, and the derivation crashes. This is why only a 3P object (without a [PTC]) yields convergence.

I build on this approach and propose that Icelandic T^0 is specified as in (3b) and (10), with $u\text{Case}$ ‘sandwiched’ between the two ϕ -probes, which correctly derives $\#$ -agreement:

$$(10) \quad \text{EXPL} \dots T^0: u \left[\overbrace{[\pi - \text{PTC}] > u[\text{CASE}] > \#}^{\downarrow} \right] \dots DP_{\text{DAT}:3P} \dots DP_{u[\text{CASE}]}$$

$[\pi - \text{PTC}]$ agrees with both DPs, as in (9). REPL then requires $u\text{CASE}$ to attempt agreement with DAT, but since this is not possible, it searches the object, which also complies with REPL. Due to this step, REPL then requires $\#$ to agree **only** with the object. If we now turn back to **licensing**, we observe that DAT-DPs require licensing in Icelandic, as they cannot be overt in INF-Quirky Clauses:

$$(11) \quad \left[\text{---}_{\text{DAT}} \text{að vera lengi kalt} \right] \text{veldur lungnabólgu.}$$

to be-INF long-time cold_{SG.N} causes pneumonia (Thráinsson 2007: 417)

In this, Icelandic differs from Slovenian. I propose that **DPs in Icelandic require π -licensing**: any π -feature on a DP needs to enter into an AGREE-relation with a ϕ -probe to be licensed. Because $u\pi$ will always probe DAT in finite clauses (10), the DP will be licensed there, but not in INF-clauses.

4. No Case Discrimination. In addition to Icelandic, this paper will explore the patterns of licensing and Case Discrimination in Basque: certain dialects of Basque allow ϕ -agreement with DAT-DPs (Rezac 2008). Such dialects opt for the most ‘permissive’ micro-parameter’ (3c), $u \left[\pi > \# > u[\text{CASE}] \right]$, where the probing for $u\text{CASE}$ does **not** precondition ϕ -probing.

6. Conclusion. The system developed here then accounts for a range of variation in DP-licensing and Case Discriminative agreement without referring to the traditional version of the Case Filter, making it directly compatible with recent work on agreement (Preminger 2014; Levin 2015).