Correlation and causation in case & agreement
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1. Introduction

This talk addresses the issue of causality between case and agreement

- Whether such causality exists;
- And if so, which is the causer and which is the causee.

So, for example:

- In Sakha passives, the Theme can surface as either NOM or ACC —

(1) a. oloppos-tor aldjat-lyn-ny-lar
   chair-pl break-pasv-pst-3pl.subj
   ‘Chairs were broken.’

   b. oloppos-tor-u aldjat-lyn-na
   chair-pl-acc break-pasv-pst(3sg.subj)
   ‘Chairs were broken.’

(2) a. * oloppos-tor-u aldjat-lyn-ny-lar
   chair-pl-acc break-pasv-pst-3pl.subj

   b. * oloppos-tor aldjat-lyn-na
   chair-pl break-pasv-pst(3sg.subj)

   [Sakha; Baker & Vinokurova 2010:637]

   — but crucially:
   finite agreement with the Theme is possible iff the Theme is NOM.1

   ......................

   ⇒ What we see here is the following familiar generalization:

(3) CASE-AGREEMENT CODEPENDENCE GENERALIZATION (CACG)

   case C on noun phrase x ⇐⇒ agreement with x
   where C ∈ {nominative, …}


SPOILER: The CACG is false; but it’s too close to true for it to be an accident.

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1Baker & Vinokurova (2010:609–610) argue that examples like (1b), but not (1a), contain a PRO subject. But as they note (633n30), even if that is the case, PRO is inaccessible to agreement in Sakha (see also Levin & Preminger 2015:6–7).

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At this juncture, you might ask yourself:
What notion of case is (3) supposed to apply to—abstract case (a.k.a., “Case”), or morphological case?

**ANSWER:** I’m not going to presuppose that such a distinction exists.

And, as it turns out: if you happen to buy into a dichotomy between these two notions of case, our discussion here will have consequences for both. (Stay tuned.)

- Short of the undesirable “it’s a coincidence” gambit, there are three ways one might try to explain the CACG:

  (i) agreement with noun phrase x gives rise to case C on x

  (ii) case C on noun phrase x is a prerequisite for agreement with x

  (iii) there is some third factor F that conditions both case C on, and agreement with, noun phrase x

- Generative syntax has seen proposals that go in each of these directions:

  (i) George & Kornfilt (1981), a.o.:
  agreement gives rise to (structural) case
  · finite agreement with x gives rise to nominative case on x
  · possessive agreement with x gives rise to genitive case on x

  (ii) Bittner & Hale (1996), a.o.:
  (some) cases are prerequisites for (some instances of) agreement
  · accusative case on x is a prerequisite for object agreement with x
  · ergative case on x is a prerequisite for transitive-subject agreement with x

  (iii) “canonical” GB (see, e.g., Chomsky 1986):
  both case and agreement are conditioned by being in (or passing through) certain structural positions
  · [Spec,Infl], and [Spec,Infl] → finite agreement with the noun phrase in [Spec,Infl]

2Crucially, the structural relation relevant to government here is (what we now call) m-command, rather than (what we now call) c-command. See Chomsky (1986:8–9), following Aoun & Sportiche (1983).
At the moment, it seems much of the field has adopted (i)
    ○ following, e.g., Chomsky (2000, 2001)\textsuperscript{3}

- In today’s talk, I will argue for a version of (ii)
    - in particular, I will argue that being, e.g., nominative is a prerequisite for being the target of finite agreement

2. Exceptions to the CACG

There are a few relatively well-known exceptions to the CACG.

2.1. pro-drop

- Obviously, pro-drop (if the language has overt \(\phi\)-agreement, which is very often the case) furnishes what looks like agreement in the absence of an appropriately case-marked noun phrase
  - But we need to posit something like \([pro]_{DP}\), if only for theta-theoretic reasons
  - Once we posit \([pro]_{DP}\), we might as well assume that \([pro]_{DP}\) bears the requisite case (e.g. nominative) to bring this in line with the CACG
    \(\Rightarrow\) this problem dissolves.

2.2. Bearers of structural case that have not been agreed with, take 1: Icelandic

\(4\) bað finnast(“finnast”) [einherjum stúdent]_{DAT} [tölurnar]

EXPL
find.SG/find.PL
some
student.SG.DAT
computers.pl.nom

ljótar.

ugly

‘Some student finds the computers ugly.’

\(5\) [Einherjum stúdent]_{I} finnast_{I} t_{I} [tölurnar] ljótar.

some
student.SG.DAT
find.PL
computers.pl.nom
ugly

‘Some student finds the computers ugly.’

\[\text{Icelandic; Holmberg & Hróarsdóttir 2003:999–1000}\]

- The dative einherjum stúdent (“some student.sg.dat”) demonstrably intervenes in the agreement relation with the nominative tölurnar (“computers.pl.nom”)

- But the variant of (4) in which the matrix (finite) verb bears singular agreement is \textit{grammatical}
  \(\Rightarrow\) meaning nominative on tölurnar (“computers.pl.nom”) cannot be a result of agreement with the matrix verb
  (or the matrix Infl\textsuperscript{0} /\(I^0\)/\(T^0\)/etc.)

\textbf{Possible retort:}

- tölurnar (“computers.pl.nom”) is in [Spec,TP] of its own clause
  \(\Rightarrow\) how can we be sure that it doesn’t receive nominative via agreement with the embedded \(T^0\)?

(I’m not saying there aren’t potential reasons to doubt this alternative—e.g. the fact that the nonfinite \(T^0\) in Icelandic does not, in fact, show any signs of agreement—but whether or not such things count as problems depends on some other assumptions.)

2.3. Bearers of structural case that have not been agreed with, take 2: Basque

- Long-distance agreement (LDA) in “substandard” Basque (Etxepare 2006)
  ○ “substandard” because of the prevailing prescriptive attitude toward these constructions;
  ○ and because of their distribution, which cuts across established Basque dialect boundaries (Eastern/Central/Western).

\textsuperscript{3}See, for example, Chomsky 2000:124n81, Chomsky 2001:16.
- Some basics of Basque syntax:

(6) **BASQUE DITRANSITIVES**

\[
\begin{array}{c}
\text{ERGDP} \\
\downarrow \text{TP} \\
\downarrow \text{vP} \\
\downarrow \text{\textit{t}_{ERGDP}} \\
\downarrow \text{v} \\
\downarrow \text{DATDP} \\
\downarrow \text{ApplDP} \\
\downarrow \text{VP} \\
\downarrow \text{Appl}^0 \\
\downarrow \text{ABSDP} \\
\downarrow \text{v}^0 \\
\end{array}
\]

(7) [Guraso-\(e\)-k]_{\text{ERG}} [nir1]_{\text{DAT}} [bearbeitak eder-r-ak]_{\text{ABS}} erosi parent(s)-\text{-ART}_{\text{pl}}\text{-ERG me.DAT earring(s) beautiful-ART}_{\text{pl}}(\text{ABS}) bought d-i-zki-da-te. 3.ABS-\sqrt{\text{-}}-\text{pl.ABS-}\text{-1sg.DAT-3pl.ERG} ‘(My) parents have bought me beautiful earrings.’ [Basque; Laka 1996]

- The **DATDP** intervenes in agreement relations targeting the **ABSDP**
  - this is ameliorated when the **DATDP** is clitic-doubled
    - which happens when the **DATDP**, as an intercessor, halts the probing of \(T^0\) for \textit{person} features
      - (or in the terms used in my March talk: when the **DATDP** halts \(n^o\), the finite \text{PERSON} probe—a subpart of what we have come to call “finite \(T^0\)” in Basque)
    - giving rise to the Person Case Constraint (PCC):
      - You can have \textit{plural} agreement with the \textit{ABSDP}, but not \textit{1st/2nd-person} agreement with it.
  - Importantly, clitic doubling in Basque is restricted to finite clauses
    - in non-finite clauses, the **DATDP** intervenes even for number.

(8) [Miren-\textit{entza}t]\textit{PP} [harri hori\textit{e}k]_{(\text{ABS})} altxa-tze-n \text{probatu Miren-ben stone(s) those}_{\text{pl}} lift-\text{NMZ-LOC attempted d-it-u-zte. 3.ABS-\text{-pl.ABS-}\sqrt{\text{-}}-3pl.ERG} ‘They have attempted to lift those stones for Miren.’ (subject is \textit{pro <3pl.ERG>})

(9) [Lankide-e-i]_{\text{DAT}} [liburu hori\textit{e}k]_{(\text{ABS})} irakur-tze-n \text{probatu d-\textit{f/it-u-(z)te. attempted 3.ABS-\text{-sg/\text{-pl.ABS-}\sqrt{\text{-}}-3pl.ERG}} ‘They have attempted to read those books to the colleagues.’ (subject is \textit{pro <3pl.ERG>})

\[\Rightarrow\] changing a true PP in (8) into a **DATDP** in (9) results in intervention in number agreement with the embedded **ABSDP**

- Now consider this **ABSDP** from the perspective of the CACG:
  - as these data show, the **DATDP** in (9) (\textit{lankide-e-i “colleague(s)-ART}_{\text{pl}}\text{-DAT”}) intervenes in agreement relations targeting the **ABSDP**
  - nevertheless, the **ABSDP** in (9) (\textit{liburu hori\textit{e}k “book(s) those}_{\text{pl}“}) is, well, 
    - absolute
    - and note: this is a full-fledged DP, replete with a demonstrative—
      - not some kind of reduced/bare nominal
  \[\Rightarrow\] **what agreement relation could possibly have (successfully) targeted this **ABSDP**?
  - even \(v^o\) is already too high to successfully have agreed with the **ABSDP**;
  - given a structure along the lines of (6), one might ask whether it could be \text{Appl}^0 that assigns case-by-agreement to the **ABSDP** in (9)
    - the problem with this is that Basque has distinct **ABS** and **DAT** case morphology, and the **ABSDP** is unambiguously absolute
    - \text{Appl}^0 cannot be the head that assigns **ABS**, since:
      - (i) \text{Appl}^0 is absent in monotransitives, but those still have **ABS** case
      - (ii) the case that monotransitives lack and ditransitives have—and thus, the case that is conceivably “added” by \text{Appl}^0—is **DAT**
More generally, we can describe the problem these Basque data pose for the CACG as follows:

- The intervener in (9) is a co-argument of the ABSDP
  - the two are internal arguments of the same ditransitive verb
- Any functional head capable of assigning case-by-agreement to the ABSDP would already be higher than both arguments
  - and would thus suffer the same intervention effect demonstrated in (9).

**UPSHOT:**

- Absolutive in Basque arises in the complete absence of syntactic agreement
- Importantly, absolutive in Basque bears the hallmarks of a structural case
  - e.g. it can be overridden under raising (Artiagoitia 2001, Rezac 2008)

  ⇒ Structural case arises on noun phrases that have not undergone agreement.

### 2.4. Finite agreement with DPs that are not nominative or absolutive

- As we saw in (1–2), Sakha obeys the CACG.
  - In light of this, the following is rather surprising:

  (10) \( \min \text{ehigí} \text{-ni} [\underbrace{\text{t}_1} \text{bügün kyaj-yax-xyt}] \text{dien} \) erem-mit-im
      \( \text{I who-ACC today win-FUT-2PL.SUBJ} \) that \( \text{hope-PST-1SG.SUBJ} \)
      ‘I hoped you would win today.’

  (11) \( \text{ehigí bihigí} \text{-ni} [\underbrace{\text{t}_1} \text{kyajtar-dy-byt}] \text{dien} \) xomoj-du-gut
      \( \text{you who-ACC lose-PST-2PL.SUBJ} \) that \( \text{become.sad-PST-2PL.SUBJ} \)
      ‘Y’all were disappointed that we lost.’

      [Sakha; Vinokurova 2005:369; annotated following Baker & Vinokurova 2010]

- As B&V (616–617) show, (10–11) involve raising per se
  - the Sakha NPI \( \text{kim daqany} \) (“who PCL”) can only be interpreted in the scope of negation;
  - thus, examples like (12), where the ACCDP is base-generated above the clause with negation, are ungrammatical:

  (12) * \( \min \text{kim-ne daqany} \) [kel-bet \( \text{dien} \)]
      \( \text{I who-DAT PCL come-NEG.AOR(3SG.SUBJ) that} \)
      \( \text{et-ti-m tell-PST-1SG.SUBJ} \)
      Intended: ‘I told no one that he should come.’

      ○ but crucially, with a predicate like, e.g., \( \text{eren} \) (“hope”), a superficially similar example becomes acceptable:

  (13) \( \min \text{kim-i daqany} \) [kyaj-ba-ta \( \text{dien} \)] \( \text{eren-e-bin} \)
      \( \text{I who-ACC PCL win-NEG-PST(3SG.SUBJ) that} \)
      \( \text{hope-AOR-1SG.SUBJ} \)
      ‘I hope that nobody won.’

  ⇒ The embedded clauses in examples like (10–11) exhibit finite agreement with a noun phrase that ultimately surfaces bearing ACC (rather than NOM)

  ○ in violation of the CACG.

**A COMMON INTUITION:**

- The raised noun phrase in examples like (10–11) was nominative —
  - (at the point at which it was targeted for finite agreement)
  - — and was assigned accusative later in the derivation.

- B&V assume a Chomsky (2000, 2001)-style relation between finite agreement and NOM case (namely, that the former gives rise to the latter)
- And suggest that examples like (10–11) involve “case-stacking” (cf. Schütze 2001, Yoon 2004, on Korean; and Richards 2007, 2013, on Lardil)
  - such that ACC, assigned in the matrix clause, is “stacked” outside of NOM, which was already assigned in the embedded clause

  ➤ However, as Kornfilt & Preminger (2015) show, this constellation of assumptions fails on Sakha-internal grounds
  - in a nutshell, it can be shown that Sakha does not have case-stacking, not even of the covert kind.
3. Towards a solution

Let us review our desiderata so far:

(i) The *almost-entirely-true* nature of the CACG (§1)

(ii) The occurrence of structural case in the absence of agreement (sections 2.2 to 2.3)

(iii) Finite agreement with a noun phrase that subsequently becomes, e.g., accusative (section 2.4)

● I have argued elsewhere that the term “3sg agreement morphology” is somewhat misleading—and that, in effect, it just refers to:
  ○ the characteristic spellout afforded to probes that have failed to locate [participant] and/or [plural] features in their local c-command domain
    (Preminger 2011, 2014; this follows Harley & Ritter’s 2002 observations concerning the typology of pronoun inventories)

✈ Suppose, then, that “nominative” and “absolutive” are a similar bit of terminological equivocation—and are, in reality:
  ○ the characteristic spellout afforded to noun phrases that have failed to value their case features through the course of the entire derivation

(14) “nominative” / “absolutive” ≡ caselessness
  – this idea can be traced (in the generative era, at least) to Bittner & Hale (1996)

○ note #1: this does not imply that “nominative” / “absolutive” are necessarily phonologically null
  – just like “3rd person singular” is not phonologically null in every single language
  – this depends on the particular vocabulary items and/or insertion rules in the language in question

○ note #2: this does imply that there can be no such thing as a “Case Filter”; we’ll get back to that, but not until §7.

● As we will see, if we add to (14) the assumption that finite agreement probes can only target caseless DPs —
  ✈* we derive both the CACG and its exceptions.*

● But before showing that, I will present a case calculus that delivers (14), while remaining compatible with the other facts we have seen.

4. A syntactic, configurational calculus for case

I assume here that the empirical desiderata for the calculus of case are adequately characterized by Marantz’s (1991) *disjunctive case hierarchy*:

(15) DISJUNCTIVE CASE HIERARCHY [Marantz 1991]

    lexical/oblique case → dependent case → unmarked case

However, departing from Marantz, I will show how something like (15) can be arrived at within narrow syntax.

If you are unfamiliar with the workings of Marantz’s (1991) proposal, worry not; everything you need to know about it will be touched upon in the present discussion.

Assuming a bottom-up approach to syntactic structure building:

● The first syntactic relation that a DP (once built) has an opportunity to participate in is the relation with whatever head (c-)selects it

(16) LEXICAL/OBLIQUE CASE – CASE ASSIGNED UPON FIRST MERGER

If the head in question happens to be lexically specified to assign some case to its complement (think *listen* vs. *hear*):

○ the DP in a configuration like (16) will have its case features valued according to what is lexically specified on the selecting head
Importantly:
If we indeed think of this in terms of feature valuation \textit{per se}, we derive:

(i) the fact that case assigned by a selecting head takes precedence over other kinds of case (in the same clause)
(ii) the fact that once assigned, such case cannot be overridden (in a higher clause)

○ because valuation is a “one-off”: once you have a value, you are no longer unvalued, thus no longer eligible for valuation
○ these are not new ideas, of course, and a lot of this borrows heavily from conventional treatments of \textit{inherent case}

where things become interesting is in contrasting this with the other two components of (15), viewed from this feature-valuation perspective

\begin{itemize}
  \item On the opposite side of the spectrum:
    \begin{itemize}
    \item a DP that has gone through the course of the entire derivation without valuing its case features will be given the spellout characteristic of reaching PF with those features still unvalued
      \begin{itemize}
        \item as what we have come to call “nominative”/ “absolutive”
        \item cf.: “3rd person singular” in the domain of \(\varphi\)-features
      \end{itemize}
      (as noted above, this characteristic spellout may or may not be null, depending on language-specific morphological factors)
    \item this is why cases like nominative \textit{can} be overridden in the course of the derivation:
      \begin{itemize}
        \item “nominative”/ “absolutive” \(\equiv\) a state of non-valuation
        \item \textbf{\textit{subsequent valuation would change this state.}}
      \end{itemize}
    \end{itemize}
  \item Sandwiched between these two, in terms of the derivational sequence, is \textit{dependent case}
    \begin{itemize}
    \item in this system, dependent case is case that is assigned to a DP by virtue of standing in an asymmetric \(c\)-command relation with another as-of-yet-caseless DP
      \begin{itemize}
        \item it is, in a sense, an indication that:
        \begin{quote}
          “I have (been) \(c\)-commanded (by) another DP with unvalued case features in the course of the derivation.”
        \end{quote}
      \end{itemize}
    \end{itemize}
\end{itemize}

(17) \textbf{DEP. CASE: UPWARD \rightarrow “ERG”}
(18) \textbf{DEP. CASE: DOWNWARD \rightarrow “ACC”}

\begin{itemize}
  \item Like any other syntactic relation, (17–18) cannot obtain if a locality boundary intervenes between the two DPs in question
    \begin{itemize}
    \item in particular: the boundary of a CP, PP, or other DP
    \end{itemize}
  \item Even so, dependent case seems like an outlier in the landscape of syntax in a different sense—namely, because it is a phrase-to-phrase relation
    \begin{itemize}
    \item as opposed to the head-to-phrase relations that we are used to
    \end{itemize}
  \item This has led some to propose that it involves an “intermediary” —
    \begin{itemize}
    \item implementing what looks like a phrase-to-phrase relation as two, separate head-to-phrase relations, with one and the same head
      (see, e.g., Bittner & Hale 1996)
    \end{itemize}

\end{itemize}

\begin{itemize}
  \item However, Sakha demonstrates quite vividly that such an approach is on the wrong track (B&V:617–619)
    \begin{itemize}
    \item as evidenced by raising-to-ACC being possible even when …
      \begin{itemize}
      \item the raised-to clause is anchored by an unaccusative verb (which, outside of raising contexts, would not support ACC assignment)
        \textit{~ or ~}
      \item the raised-to clause contain a separate, canonical argument marked ACC (alongside the raised DP)
      \end{itemize}
    \end{itemize}
  \item The same facts also rule out treating ACC as case assigned directly by a functional head (e.g. \(v^0\))
    \begin{itemize}
    \item since assuming that unaccusative \(v^0\) has ACC-assigning capabilities, or that active/transitive \(v^0\) can assign multiple instances of ACC, would wreak havoc elsewhere in the grammar
    \end{itemize}

\end{itemize}

\Rightarrow \textbf{A case like ACC is just about getting into a configuration like (18).}
It appears, then, that dependent case is a direct relation between two phrasal categories, after all—unlike anything else we are familiar with… (except Binding Theory!)

In Marantz’s system, it had to be stipulated that:
- lexical/oblique case takes precedence over dependent case, which takes precedence over unmarked case
- On the current approach, this is derived from the bottom-up nature of structure building:
  - a DP will merge with the head that selects it before it ever has a chance to stand in a relation like (17–18)
  - if the selecting head is lexically specified to assign case, that will bleed dependent case assignment
    (since, as noted, valuation is a “one-off”)
  - the effective configuration for dependent case assignment (abstracting away from directionality, i.e., “ACC” vs. “ERG”) is therefore (19)

**Effective Configuration for Dependent Case**

![Diagram](image)

- finally, since “nominative”/“absolutive” are, by hypothesis, labels for non-valuation —
  - they would be bled by either lexical/oblique case (16) or dependent case (19)

⇒ We thus derive the ordering stipulations embodied in Marantz’s (1991) disjunctive case hierarchy

5. Deriving the CACG and its exceptions

5.1. The basic pattern
- Let us start with the basic pattern, as exemplified by the Sakha (20), repeated from earlier:
  (20) a. oloppos-tor aldjat-ylyn-ny-lar (*aldjat-ylyn-na)
      chair-PL break-PASV-PST-3pl.SBJ (*break-PASV-PST(3sg.SBJ))
      ‘Chairs were broken.’
  b. oloppos-tor-u aldjat-ylyn-na (*aldjat-ylyn-ny-lar)
      chair-PL-ACC break-PASV-PST(3sg.SBJ) (*break-PASV-PST-3pl.SBJ)
      ‘Chairs were broken.’

[≈ (1–2)]

- Let us assume, with B&V, that examples like (20b) involve a PRO Agent
  - which participates in the case calculus, but crucially, lacks the features relevant to φ-agreement (see also fn. 1)

**NB:** These are not ad hoc assumptions put in place to derive (20a–b).
They are necessary, on the configurational case model, to capture even very basic facts like (21):

(21) John tried [ PRO(NOM) to meet themACC ].

- Thus, in (20b), the PRO Agent enters into a dependent case relation with oloppos-tor ("chair-PL"), valuing the case features of the latter:

![Diagram](image)
• In (20a), on the other hand, there is only one noun-phrase, olopop-tor (“chair-pl.”), and so its case features remain unvalued

⇒ If we now add the previously noted assumption that only caseless noun phrases can be targeted for finite agreement —
  ○ in (20a): olopop-tor (“chair-pl.”) will be agreed with, as attested
  ○ in (20b): olopop-tor-u (“chair-pl-acc”) cannot be targeted (nor, by hypothesis, can PRO)
    - but as argued extensively in my March talk (see also Preminger 2011, 2014), this does not result in a “crash” or ungrammaticality
    - rather, it results in the characteristic spellout of probes that have not found [participant] and/or [plural] features in their domain
      - a.k.a., “3rd person singular”

5.2. Structural case without agreement

• Let us now turn to the first kind of exception that we noted to the CACG
  ○ namely, bearers of structural case that could not have been agreed with

  (23) [Miren-entzat]pp [harri horiek]_{ABS} altxa-tze-n ] probatut
    Miren-BEN stone(s) those_{pl} lift-MNZ-LOC attempted d-it-u-zte.
    3.ABS-plABS-√-3pl.ERG
    ‘They have attempted to lift those stones for Miren.’
    (subject is pro <3pl.ERG>)

(24) [Lankide-e-i]_{DAT} [liburu horiek]_{ABS} irakur-tze-n ]
    colleague(s)-ARTpl-DAT book(s) those_{pl} read-NMZ-LOC
    probatut d-ϕ/*it-u-(z)te.
    attempted 3.ABS-plABS-√-3pl.ERG
    ‘They have attempted to read those books to the colleagues.’
    (subject is pro <3pl.ERG>)

On the current proposal, this kind of exception is completely unproblematic —
  ○ finite agreement requires that the DP target “bears structural case”
    (now construed as having unvalued case features)
  ○ but agreement itself is not implicated in any way in the case calculus (recall: §4)
  ○ the absolute DP in the embedded clause in (23/24) receives neither lexical/oblique case nor dependent case (“erg”)

⇒ it therefore receives the characteristic spellout for DPs in Basque that have unvalued case features (a.k.a., “absolutive”)
  - regardless of whether or not it is subsequently agreed with

• As predicted:
  ○ this absolute(-caseless) DP can be targeted for agreement
    - as in (23)
  ○ unless other factors disrupt such agreement
    - e.g. a dative intervener, as in (24)

⇒ but crucially, this does not affect “absolutive case” one way or another.

5.3. Finite agreement with non-{nom, abs} DPs

Now consider the second kind of exception—namely, agreement with a nominal that surfaces with a case other than “nominative”/ “absolutive”:

(25) min $\text{ehigi} -\text{ni}$ [vs $\text{t}_1$ bügün kyaj-yax-xyt $\text{dien}$ ] emer-mit-im
    l you-ACC today win-FUT-2pl.SUBJ that\n    ‘I hoped you would win today.’

(26) $\text{ehigi} -\text{bighi} -\text{ni}$ [vs $\text{t}_1$ kyajtar-dy-byt $\text{dien}$ ] xomoj-du-gut
    you we-ACC lose-PST-2pl.SUBJ that\n    ‘Y’all were disappointed that we lost.’ [=(10–11)]

• Assuming, as we have been, a bottom-up syntactic derivation:
  ○ within the embedded clauses in (25–26), there is nothing that would assign lexical/oblique case or dependent case to the bolded phrases
    - $\text{ehigi}$ (“you”) in (25), $\text{bighi}$ (“we”) in (26)
[Even if the predicate in the embedded clause were transitive, instead of the intransitives in (25–26), that would result in dependent case on the embedded object, not on the embedded subject—since dependent case in Sakha is parameterized to downward(=“ACC”).]

⇒ these phrases will remain caseless (=“nominative”)
  - and thus, viable targets for finite agreement—as attested
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○ subsequently, these noun phrases raise to a position in the same case domain as the matrix subject
  – more precisely: they raise to a position where they are no longer separated from the matrix subject by any of the relevant locality boundaries
  ⇒ furnishing a representation along the lines of (27):

(27)

6. Further advantages: noun phrases targeted for finite agreement more than once

• As noted in the Introduction, one of the proposals in the literature to account for the CACG is the one in Chomsky 2000, 2001, whereby:
  ○ cases like nominative/absolutive arise as the result of agreement
  ○ the assignment of case to a DP ‘inactivates’ it, and inactivated DPs cannot participate in further case & agreement processes
    – a.k.a., the “Activity Condition”

⇒ As you may have noticed, this comes close to what I’m proposing here, in that:
  ○ finite agreement targets DPs that are, at the point in the derivation at which they are targeted, caseless

• A couple of differentiating predictions we’ve already explored:
  (i) the Chomsky 2000, 2001 approach cannot account for the Icelandic and (more acutely) Basque data we examined
    ○ involving structural case on noun phrases that could not have been agreed with
  (ii) it also cannot account for the Sakha data—involving targets of finite agreement that subsequently surface bearing ACC—without assuming “case-stacking”
    ○ which, for reasons I’m not going into in today’s talk, is a problematic assumption as far as Sakha is concerned

• In this section, I present another empirical pattern that is problematic for the Chomsky 2000, 2001 approach —
  ○ but follows straightforwardly on the approach proposed here

⇒ The crucial data involve noun phrases that are targeted for finite agreement more than once.

• As shown in (28a–b), the verb in Tsez agrees—in noun-class—with the absolutive argument:

(28) a. ziya b-ik’i-s
    CW.iii.abs III-go-pst.evid
    ‘The cow left.’

b. eniy-ē ziya b-išer-si
    mother-erg CW.iii.abs III-feed–pst.evid
    ‘The mother fed the cow.’ [Tsez; Polinsky & Potsdam 2001:86]

⇒ As Polinsky & Potsdam demonstrate, absolutive arguments in Tsez can trigger overt φ-agreement on more than one lexical verb —
  ○ in particular, embedded topics trigger agreement on the subordinating verb, as well:
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7. Ramifications for Case Theory

What are the consequences of these findings for the theory of case?

- The most conservative move:
  Try and argue that what we have seen here is a matter of morphology (determined "at PF"), not syntax
  ○ i.e., there is some post-syntactic computation that determines the affixes that various elements (DPs, finite verbs) surface with
  ○ but "under the hood", Vergnaud-case is working just like GB et seq. told us it does

- This is not a novel idea; Jónsson (1996), for example, offers a treatment of Icelandic case along these lines (see also Merchant 2006, Svenonius 2005)
  ○ where "quirky case" is a superficial phenomenon masking an underlying system more or less identical to what one finds in English

- There are some conceptual problems with such a move:
  ○ modularity: the allegedly post-syntactic computation implicated in case & agreement (§4) needs to know an awful lot about various syntactic primitives (c-command, phases, DPs vs. non-DPs)
  ○ duplication: why do both systems—abstract case and morphological case—even exist (esp. given that in many languages, their output ends up being identical)?

- But this weaker, "two systems" approach also faces empirical problems:
  ○ the conclusions we drew from Basque LDA apply to any notion of case that is contingent on agreement—

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(29) a. eni-r [uži ϕ-aye-ru-li] ϕ-iy-xo
    mother-DAT boy.abs I-arrive-pst.prt-nmz I-know-pres
    "The mother knows that as for the boy, he arrived."

b. eni-r [už-á magalu b-ac'-ru-li] b-iy-xo
    mother-DAT boy-erg bread.abs.iii-eat-pst.prt-nmz iii-know-pres
    "The mother knows that as for the bread, the boy ate it."

○ crucially, agreement on the subordinating verb does not replace agreement on the embedded verb; they surface alongside one another

○ while such agreement on the subordinating verb is not generally obligatory in Tsez —
  - it actually is obligatory (alongside agreement on the embedded verb) if one forces the topichood of the embedded absdp
    Polinsky & Potsdam 2001 for details.

• Now consider these facts from the perspective of the relationship between case & agreement:
  ○ if, as in Chomsky 2000/2001, agreement can only target caseless (read: active) DPs;
  ○ and it thereupon assigns case to (read: inactivates) the target DP;
  ⇒ then the second (i.e., matrix) agreement relation in (29a–b) should be impossible, contrary to fact.

• on the other hand, on the proposal advanced here, the possibility of (29a–b) follows straightforwardly:
  - to be targeted for finite agreement, a DP must be caseless(="nominative"/ “absolutive”)
  - if the syntax of a language conspires to make a DP visible to agreement probes in two different clauses —
    (see Polinsky & Potsdam 2001 on how this comes about in Tsez)
    — then so long as it is caseless, it can be agreed with by probes in different clauses
      - because agreement does not alter the caselessness of its target.
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○ that’s because:
  – Agree is subject to dative intervention
  – the embedded absDP in Basque LDA is lower than its dative co-argument
  ⇒ the assignment of absolutive via Agree should be disrupted, which should yield a Case Filter violation (contrary to fact).

The fact that the proposal sketched in §3–§4 makes the Case Filter unstateable is thus not necessarily a drawback; it might even be a desideratum.

INTERLUDE: What about the empirical coverage that the Case Filter did have?

● I think there are reasons to suspect that that empirical coverage has been overstated, and/or that much of that coverage is English-specific.

● Here are some of those reasons:
  (i) we now know that the null subject of control infinitives is assigned case just like any other embedded subject would be
  ○ based on the behavior of emphatics and other modifiers
    (Andrews 1990, Sigurðsson 1991, a.o.)
  (ii) overt nominative subjects do occur in control complements in other languages—e.g. Hungarian (Szabolcsi 2009a,b)
  (iii) there is evidence going back to Postal 1974 (in particular, the behavior of so-called wager-class verbs) that the prohibition against overt subjects in English infinitives is a PF ban

This all pertains to the subject position of infinitives; what about other things the Case Filter does?

○ the Case Filter also regulates the complementation possibilities of adjectives and (in English) also nouns

⇒ but it seems to me that statements like “adjectives do not take nominal complements” can be reinterpreted as “adjectives do not take complements with unmarked case”
  – or, on the current proposal:
    “adjectives do not take caseless nominal complements”

● Regardless of the fate of the original Case Filter’s empirical coverage, however, we have seen that:
  ○ the bifurcation of case into ‘abstract case’ and ‘morphological case’ is not only conceptually problematic, it doesn’t actually serve to rescue the agreement-gives-rise-to-case approach

⇒ We can therefore safely return to the (conceptually-superior) single case model:
  ○ a single case calculus, in syntax, whose results are also morphologically faithful (up to syncretism)

● The results surveyed in §2–§6—in particular, the kinds of exceptions one finds to the Case-Agreement Codependence Generalization (CACG)—thus argue in favor of a theory where:
  ○ agreement operates on a post-case-assignment landscape (as argued, on different grounds, by Bobaljik 2008)
    – seeking out exactly those DPs that have been been “spared” by the case-assignment process and remain caseless
    • a.k.a., “nominative”/ “absolutive”

8. Conclusion

● I have shown that the Case-Agreement Codependence Generalization (CACG; (30)) does not hold absolutely

(30) CASE-AGREEMENT CODEPENDENCE GENERALIZATION (CACG)

$\forall (x) \ (\text{case } C \text{ on noun phrase } x \iff \text{agreement with } x)$

where $C \in \{\text{nominative, absolutive}, \ldots\}$

○ it has, in particular, two kinds of exceptions:
  – instances of nominative/absolutive in the absence of agreement
  – instances of finite agreement with a DP that surfaces with some case other than nominative/absolutive

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I have suggested that we can make sense of the CACG and its exceptions if we adopt the following two assumptions:

(31) “nominative” / “absolutive” = caselessness

(32) only caseless noun phrases can be targeted for finite agreement

I proposed a syntactic case calculus that delivers (31) as well as the results of Marantz’s (1991) disjunctive case hierarchy

I demonstrated a further advantage that this system has, in allowing a single DP to enter into agreement more than once (contra the Activity Condition)

Finally, I discussed the ramifications of these results for the theory of case

○ showing that they cannot be swept completely out of narrow syntax and into the post-syntactic, morphological component

○ and arguing that the retreat to a “two system” theory of case (‘abstract’ and ‘morphological’) is unmotivated, failing to justify its steep conceptual price

⇒ meaning that the results surveyed here probably do tell us about the interaction of case & agreement in syntax

– in particular, that agreement operates on a post-case-assignment landscape of DPs (see also Bobaljik 2008)

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References


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