

Chapter 7

Overt vs. null subjects in infinitival constructions in Colombian Spanish

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Standard approaches predict complementary distribution between referentially free (overt/null) subjects and referentially dependent PRO-type null subjects. This generalization is challenged by Colombian Spanish non-finite adjuncts, which allow both overt subjects and referentially free null subjects. We uncover an intricate pattern of distribution and interpretation along two criteria: Obligatory vs. Non-Obligatory Control (OC vs. NOC) and whether the controllee is silent or an obligatory-controlled overt pronoun (covert vs. so-called “overt PRO”). The distribution of sloppy readings with null subjects provides arguments for analyzing NOC as DP-ellipsis. We also show that both covert and overt PRO display the canonical diagnostics of OC except in one context. While they both only allow bound variable construals under ellipsis, overt PRO also allows co-reference when its controller is associated with focus. This paradox follows on the assumption that while both null and overt anaphors must be syntactically bound, only null anaphors are necessarily semantically bound.

1 Introduction

According to the standard theory, overt nominative subjects and referentially null subjects of the *pro*-type are licensed by finite INFL/T. As such, they are excluded from non-finite clauses, and thus not expected to alternate with PRO in this position (Williams 1980, Chomsky 1981, Rizzi 1986, Lasnik & Uriagereka 1988, Miller 2002). This set of standard assumptions is stated in (1), adapted from Szabolcsi (2009). See also Rigau (1995), Mensching (2000), Barbosa (2019), Livitz (2011), Corbalán (2018), a.o. and references therein for extensive discussion.



- (1) Infinitival clauses do not allow:
 - (i) Overt (nominative) subjects.
 - (ii) Referentially free null subjects (*pro*).
 - (iii) Overt controlled subjects.¹

However, as has been reported in the literature, the predictions of the standard theory in (1) are empirically falsified. In particular, overt subjects alternating with controlled null (PRO-type) subjects have been shown to be allowed in many languages. The pioneering work by Piera (1987) and Lipski (1994) for instance shows that complement and adjunct infinitives allow overt subjects in different varieties of Spanish (2)–(3):²

- (2) (European) Spanish (Piera 1987: 160)
Julia quería [telefonar ella].
Julia wanted phone.INF she.NOM
'Julia wanted to be her who phones.'
- (3) (Colombian) Spanish (Lipski 1994: 215)
Antes de yo salir de mi país.
before of I.NOM exit.INF of my country
'Before I left my country.'

Even more strikingly, although it is theoretically impossible for an infinitival subject that exhibits all the diagnostics of Obligatory Control (OC) to be overt, overt obligatory-controlled pronominal subjects are attested cross-linguistically. Following Livitz (2011), we henceforth refer to the latter as “overt PRO” (see also Szabolcsi 2009).

The novel contribution of this paper is twofold. First, it extends the empirical domain of overt PRO discussed in the literature solely in the context of complement clauses to adjunct clauses. Second, it applies a battery of diagnostic tests to establish whether overt pronominals in infinitival subject positions instantiate (or not) OC (in line with Duguine 2013).

The focus of this paper is on non-finite adjunct clauses which allow overt preverbal subjects. We show that overt and null subjects in infinitival adjunct clauses

¹We borrow this terminology from Szabolcsi (2009) and Livitz (2011) respectively.

²For discussion of this pattern in Spanish, see also Rigau (1995), Torrego (1998), Mensching (2000), Zagana (2002), Perez Tattam (2007), Schulte (2007), Herbeck (2011), Corbalán (2018), González (2020). See also Szabolcsi (2009) on Hungarian, Italian, European Spanish, Portuguese, Romanian and Modern Hebrew, Sundaesan & McFadden (2009) on Tamil, Borer (1989) on Korean and Duguine (2013) on Basque.

in (Andean) Colombian Spanish (henceforth CS) exemplify three systematic patterns of exception to the standard generalizations in (1).³

The first pattern can be observed in infinitives introduced by the temporal-causal preposition *al*. It allows both overt DPs (pronouns or R-expressions) and null subjects of the PRO-type, which as we shall establish in §2.1, meet all the diagnostics of OC.⁴ This pattern is illustrated in (4). Overt subjects (also) allowed in *al*-infinitives violate the ban on overt subjects in (1(i)).

- (4) Juan_i sería feliz [al José_k/ él_{i/k}/ PRO_{i/*k} dejar la casa].
 Juan be.COND happy in.the José he.NOM leave.INF the house
 ‘Juan would be happy on leaving the house.’

The second pattern is instantiated in infinitive adjunct clauses headed by the preposition *sin* ‘without’. The latter allow for both overt subjects (pronouns or R-expressions) and *pro*-type subjects, as illustrated below.⁵

- (5) María_i dejó de trabajar [sin Rosa_k/ ella_{i/k}/ pro_{i/k} decir
 María stopped of work.INF without Rosa she.NOM say.INF
 nada].
 nothing
 ‘María stopped working without (Rosa/her) saying anything.’

The reference of the null infinitival subject in (5) is free and (5), as such, violates the ban on referentially free null subjects (1(ii)), in addition to the ban on overt subjects (1(i)). As discussed in §2.2, we follow Hornstein (1999) in assuming null subjects in Non-Obligatory Control (NOC) constructions to be *pro* rather than PRO. Importantly, however, we provide an argument from the distribution of sloppy readings for generalizing Duguine’s (2013, 2014) DP-ellipsis analysis of *pro* to NOC contexts. The last pattern is that of infinitive complements selected by the preposition *para* ‘for’, illustrated below:

³CS infinitival adjuncts allow overt subjects in preverbal position, a pattern commonly found across Caribbean varieties of Spanish (Suñer 1986, Dauphinais Civitello & Ortiz López 2016, González 2020). In Contemporary European varieties, overt subjects are typically restricted to the postverbal position (RAE-ASALE 2009). In Old Spanish, however, they were accepted in preverbal position (Mensching 2000, Corbalán 2018), while in other colloquial varieties, there appears to be no preference for the pre/postverbal position (Mensching 2000, Gallego 2010, Herbeck 2011). Scholars moreover agree that the overt subject appearing in nonfinite contexts in Spanish bears nominative case regardless of its pre/postverbal position (Piera 1987, Schütze 1997, Mensching 2000).

⁴See Rico (2016) on the temporal-causal properties of the complementizer *al*.

⁵Here we use PRO and *pro* as descriptive terms to conventionally refer to referentially dependent vs. free null subjects.

- (6) Juan_i se fue [para *María_k/ él_{i/*j}/ PRO_{i/*j} estar feliz].
 Juan CL.3 left for María he.NOM be.INF happy
 ‘Juan left in order to be happy.’

Besides the expected PRO-like null subject, *para*-infinitives also allow overt subjects. But unlike in the two previous cases, the reference of the overt subject is not free – that is, only pronominal subjects anaphorically dependent on a local c-commanding antecedent are allowed to be overt. *Para*-infinitives thus violate the ban on overt controlled subjects (1(iii)), and as a consequence, the ban on overt subjects (1(i)), too. Following Livitz (2011), we call the overt controlled subject pronoun in (6) “overt PRO”. Although overt PRO in complement clauses has drawn pointed attention in the literature (Piera 1987, Mensching 2000, Szabolcsi 2009, Livitz 2011, Livitz 2014), this is to our knowledge the first discussion of overt PRO in adjunct clauses (though see Duguine 2013 for a first approach in Basque).

The present paper explores the distribution and interpretation of subjects across these three patterns of infinitival adjunct clauses. We provide novel arguments showing that null and overt PRO do not pattern alike according to the standard tests for pronominal interpretation, namely, the ellipsis and association-with-focus tests. As is well-known, while the relation holding between a pronoun and its antecedent comes out as either Bound Variable Anaphora (BVA) or coreference under these tests, the relation between null PRO and its antecedent/controller comes out as BVA exclusively, as illustrated by the paradigm in (7) from Fodor (1975: 133–134).⁶ The contrast in the interpretation of (7a) with a PRO subject in the gerund and (7b) with a possessive pronominal subject instead is fleshed out in (8)–(9) adapted from Fodor (1975: 135). Note that gerundive complements are OC constructions (Hornstein 1999).

- (7) a. Only Churchill remembers [PRO giving the speech about blood, toil, tears, and sweat].
 b. Only Churchill remembers [his giving the speech about blood, toil, tears, and sweat].
- (8) Churchill_i remembers PRO_i giving the speech about blood, toil, tears, and sweat
 a. and no other ($\lambda x (x \text{ remembers } x \text{ giving the speech})$). BVA

⁶Here we present this contrast as it is observed in the association-with-focus test. §4 presents the same contrast in the VP-ellipsis test.

- (9) Churchill_i remembers his_i giving the speech about blood, toil, tears, and sweat
- a. and no other ($\lambda x(x$ remembers x giving the speech)). BVA
- b. and no other ($\lambda x(x$ remembers Churchill giving the speech))
Coreference (his=Churchill)⁷

Example (8a) can only be understood to mean that no individual other than Churchill remembers himself giving the speech. This is captured by assuming that the VP property attributed to Churchill (and asserted to hold of no other individual) is that of remembering *oneself* giving the speech, where PRO is interpreted at LF as a variable bound by its antecedent (via λ -abstraction), that is, as semantically bound (cf. Heim & Kratzer 1998, Büring 2005).

Now, (7b) with the possessive pronoun allows the very same BV reading as in (9a), but can also be construed as in (9b). Here, the VP property attributed to Churchill (and asserted to hold of no other individual) is that of remembering *Churchill* giving the speech. This construal arises because the overt pronoun can be understood as coreference with the NP Churchill rather than being semantically bound. That the reading in (9b) is unavailable with PRO is taken to show that the relation that holds between (OC) PRO and its antecedent can only be BVA, not coreference anaphora.

Importantly, however, as we shall see in §2.3, overt PRO, unlike null PRO, patterns like a standard pronoun on the association-with-focus test, in allowing for both coreferential and BV construals, but just like null PRO on the ellipsis test, in allowing solely BV construals. There is therefore an unexpected and seemingly paradoxical distribution of interpretations. We show that these facts follow straightforwardly from the Anaphor Generalizations that we state in (10):

- (10) The Anaphor Generalizations:
- (i) Both null and overt anaphors need to be syntactically bound.
- (ii) Overt anaphors can be semantically bound, null anaphors *must* be semantically bound.

This paper is organized as follows. §2 establishes the properties of both overt and null subjects in light of the tests distinguishing OC from NOC across the three types of adjunct infinitival clauses introduced above. §3 provides an analysis of NOC, as instantiated by the *sin*-pattern. Taking as point of departure Hornstein's (1999) characterization of NOC null subjects as *pro*, we extend Duguine's (2013, 2014) DP-ellipsis analysis of *pro* to NOC contexts, providing a compelling argument from the distribution of sloppy readings of null subjects. §4 discusses

⁷The notation here indicates that 'his' and 'Churchill' have the same referent.

what we call the Overt vs. Covert PRO paradox and develops an account in terms of the Anaphor Generalization in (10). §5 concludes the paper.

2 Diagnostics for (Non) Obligatory Control

This section seeks to establish a more fine-grained description of the interpretive properties of the null subject across our three classes of adjunct clauses. A battery of tests has been put forth in the literature to diagnose whether control is obligatory or not (Williams 1980, Hornstein 1999, Landau 2000, 2013, Baltin et al. 2015). OC and NOC can be distinguished as follows. Obligatory controlled PRO requires a local and c-commanding antecedent for the null subject and, moreover, only allows BV readings under the two tests for pronominal interpretation (ellipsis and association-with-focus). In contrast, the null subject of NOC constructions does not require an antecedent (and if there is one, it need not be local or c-commanding), and allows both BV and coreferential construals under the ellipsis and association-with-focus tests.

Crucially, we apply these tests not only to the null subject of our three non-finite adjunct clauses but also to the overt pronominal subject appearing in *para*-infinitives which, recall from (6), displays restrictions on its interpretation similar to that of (null) PRO. The picture that emerges is quite an intricate one, with three levels of variation: (i) adjuncts differ from one another with respect to whether they enforce OC or not (cf. also Landau 2013); (ii) while besides null PRO, certain OC adjuncts allow overt subjects (pronouns or R-expressions) (e.g. *al*-infinitives), others only allow overt PRO (e.g. *para*-infinitives); and (iii) overt and null PRO yield conflicting results with respect to the tests for pronominal interpretation (and as such with respect to the diagnostics for OC vs. NOC) (e.g. *para*-infinitives).

2.1 *Al*-infinitives

Example (4) above shows clearly that while the overt subject of an *al*-infinitive is referentially free, its null subject is referentially dependent. The diagnostic tests teasing apart OC vs. NOC, applied in (11) to (14), show that *al*-infinitives with silent subjects involve OC.⁸

⁸The judgments for sloppy/strict readings in Colombian Spanish reported in this paper are taken from an experimental protocol carried out with 36 native speakers and using a Truth Value Judgment task (Gómez In progress). This protocol showed that both *al*-infinitives, and *para*-infinitives in §2.3, were systematically rejected on a strict reading, but accepted on a sloppy reading – in contrast to *sin*-infinitives (§2.2, Footnote 10).

- (11) [El papá de Juan_k]_i sería feliz [al [Ø]_{i/*k} dejar la casa].
 the dad of Juan be.COND happy in.the leave.INF the house
 ‘Juan’s dad would be happy once he left the house.’
- (12) Juan_i sabe que [Pedro_j vendrá [al [Ø]_{j/*i} terminar los
 Juan knows that Pedro come.FUT.3SG in.the finish.INF the
 estudios]].
 studies
 ‘Juan knows that Pedro will come once he finishes studying.’
- (13) Juan_i sería feliz [al [Ø]_i dejar la casa] y María_k también.
 Juan be.INF happy in.the leave.INF the house and María also
 ‘Juan would be happy when leaving the house and María would too.’
- a. ✓Sloppy reading (*BVA*)
 María will be happy when María leaves the house.
- b. ✗Strict reading (*Coreference*)
 María will be happy when Juan leaves the house.
- (14) Sólo Léa_i se cayó [al [Ø]_i subir al tren].
 only Léa CL.3 fell.down in.the board.INF in.the train
 ‘Only Léa fell when she was taking the train.’
- a. ✓*BVA*
 No, Karla also fell when she herself was taking the train.
 Karla ($\lambda x(x$ also fell when x was taking the train))
- b. ✗*Coreference*
 No, Karla also fell when Léa was taking the train.
 Karla ($\lambda x(x$ also fell when she was taking the train))
 (she=Léa)

Example (11) shows that the null infinitival subject needs to be c-commanded by its antecedent, and (12) shows that long-distance antecedents are not allowed. The ellipsis test in (13) shows that the null subject allows a sloppy (that is, BV) reading, but crucially not a strict (coreferential) reading. The association-with-focus test in (14) confirms that it only allows a BV construal.⁹ In sum, *al*-infinitives with null subjects display all the diagnostic properties of OC PRO.

⁹Spanish doesn’t admit VP-ellipsis, but allows ellipsis of larger structures (Dagnac 2010, Saab 2010).

2.2 *Sin*-infinitives

Whereas *sin* and *al*-infinitives pattern alike in allowing overt subjects (be it R-expressions or pronouns (5)), *sin*-infinitives with null subjects differ radically from *al*-infinitives in allowing null subjects that need not be controlled, leading us to characterize the latter as *pro*. Applying the diagnostics for OC vs. NOC in (15) to (18) allows us to confirm this characterization.

- (15) La editorial publicó [el libro de María_i]_j sin [Ø]_i
 the publishing.house published the book of María without
 haber terminado las correcciones.
 have.INF finished the corrections
 ‘The publishing house published María’s book without her finishing the corrections.’
- (16) Juan_i sabe [que se abrieron las puertas [sin [Ø]_{i/k} dar la
 Juan knows that CL.3 opened the doors without give.INF the
 autorización]].
 permission
 ‘Juan knows that doors were opened without him giving permission.’
- (17) María_i dejó de trabajar [sin ella_i/ [Ø]_i decir nada] y
 María stopped of work.INF without she.NOM say.INF nothing and
 Rosa_k también].
 Rosa too
 ‘María stopped working without her saying anything and Rosa did too.’
 a. ✓Sloppy reading (*BVA*)
 And Rosa also stopped working without Rosa saying anything.
 b. ✓Strict reading (*Coreference*)
 And Rosa also stopped working without María saying anything.
- (18) Sólo María_i dejó de trabajar [sin [Ø]_i firmar la autorización].
 only María stopped of work.INF without sign.INF the authorization
 ‘Only María stopped working without her authorizing signature.’
 a. ✓*BVA*
 No, Daniela also stopped working without her own signed
 authorization.
 Daniela ($\lambda x(x$ stopped working without x ’s signed authorization)).

b. ✓Coreference

No, Daniela also stopped working without María's signed authorization. (In a context where María_i was the only person that could sign the authorization).

Daniela (λy (y stopped working without her authorization))
(her=María).

Sin-infinitives exhibit all the properties of NOC. (15) shows that their null subject need not be c-commanded by its antecedent, and (16) that it need not be locally bound since long-distance antecedents are permitted. The ellipsis and association-with-focus tests in (17) and (18) show that their null subject allows for both BV and coreferential readings. These findings confirm that these silent subjects are of the *pro*-type, not of the (OC) PRO type.¹⁰

2.3 *Para*-infinitives

Just as in *al*-infinitives, the null subject in *para*-infinitives is referentially dependent, which we took to suggest it should also be PRO (see (4)/(6)).¹¹ Unlike in *al*-infinitives, however, and as indicated in example (6), the overt subject in these constructions is also referentially dependent, leading us to characterize it as overt PRO. We apply below the diagnostic tests for OC vs. NOC to both overt PRO and covert PRO:

- (19) [El hermano de Juan_k]_i se fue [para él_{i/*k}/ [Ø]_{i/*k} estar feliz].
the brother of Juan CL.3 left for he.NOM be.INF happy
'Juan's brother left (in order for him) to be happy.'
- (20) [Pedro_k sabe [que Juan_i se fue [para él_{i/*k}/ [Ø]_{i/*k} estar feliz]]].
Pedro knows that Juan CL.3 left for he.NOM be.INF happy
'Pedro knows that Juan left (in order for him) to be happy.'
- (21) [Juan_i se fue [para él_{i/*k}/ [Ø]_{i/*k} estar feliz] y María_k también].
Juan CL.3 left for he.NOM be.INF happy and María also
'Juan left to be happy and María did too.'
- a. ✓Sloppy reading (BVA)
María left in order for María to be happy.

¹⁰The experiment (Gómez In progress) (see Footnote 8) showed that in contrast to both *para*-infinitives and *al*-infinitives, strict readings in *sin*-infinitives, just like sloppy readings, were accepted systematically by speakers.

¹¹See Footnote 8.

b. ✗Strict reading (*Coreference*)

María left in order for Juan to be happy.

Overt and covert controlled subjects pattern exactly the same under these three tests. They need to be c-commanded by their antecedent (19), locally bound (20), and only allow BV readings under ellipsis (21). In sum, both types of subjects uniformly exhibit OC properties. These results confirm that the null subject is OC PRO, and that the overt subject is its overtly realized counterpart “Overt PRO” (Piera 1987, Mensching 2000, Livitz 2011, Livitz 2014). Crucially, however, the association-with-focus test in (22)/(23) yields dissonant results:

(22) Sólo María_i hizo trampa [para [Ø]_i ganar el primer lugar].
only María made trap for win.INF the first place
‘Only María cheated in order for herself to win the first place.’

a. ✓BVA

No, Daniela also cheated in order for herself to win.
Daniela (λ y (y also cheated in order for y to win)).

b. ✗Coreference

No, Daniela also cheated in order for María to win.
Daniela (λ y (y also cheated in order for her to win))
(her= María)

The statement in (22) with a null (by hypothesis, PRO) subject can only be denied in one way – that is, on its BVA construal, as expected. This result converges with those from the three previous tests in signaling OC. In contrast, the statement in (23) with an overt (by hypothesis, PRO) subject can be denied in either of two ways – that is, on either its BVA or coreferential construal.

(23) Sólo María_i hizo trampa [para ella_i ganar el primer lugar].
only María made trap for she.NOM win.INF the first place
‘Only María cheated in order for herself to win the first place.’

a. ✓BVA

No, Daniela also cheated in order for herself to win.
Daniela (λ y (y also cheated in order for y to win))

b. ✓Coreference

No, Daniela also cheated in order for María to win.
Daniela (λ y (y also cheated in order for her to win))
(her= María)

The availability of both readings here for overt PRO is surprising, given that it is characteristic of NOC – and more generally of pronouns, see discussion of Fodor’s examples (7)–(9) – and that the results of all the previous tests converge on an OC diagnostic.

2.4 Interim summary

The results obtained in this section are summarized in Table 1.

Table 1: Null vs. overt subjects in CS infinitival adjuncts.

	<i>Al</i> -infinitives		<i>Sin</i> -infinitives		<i>Para</i> -infinitives	
	Overt	Null	Overt	Null	Overt	Null
Distribution	DP	PRO	DP	<i>pro</i>	Overt PRO	PRO
Interpretation	Free	Dependent	Free	Free	Dependent (except in association- with-focus)	Dependent

A complex picture emerges from these findings. First, nonfinite adjuncts divide up into three classes. The first class, instantiated by *al*-infinitives, displays OC properties with null subjects while allowing for overt subjects. The second class, instantiated by *sin*-infinitives, displays the properties of NOC, systematically allowing for referentially free subjects – be they silent or lexical. And the third class, instantiated by *para*-infinitives, exhibits the properties of OC fully with null PRO, but not overt PRO. Second, overt subjects do not display homogeneous behavior across OC adjuncts. In particular, while *al*-infinitives allow either overt pronouns or R-expressions in subject position (alongside null PRO), *para*-infinitives only allow overt PRO (alongside null PRO). Finally, regarding the results of the OC/NOC tests in *para*-infinitives, a surprising contrast has emerged. On the one hand, null PRO displays all the characteristic properties of OC since it must be locally *c*-commanded by its antecedent, and it only yields BV readings under the ellipsis and association-with-focus tests. On the other hand, overt PRO displays most, but not all the characteristics of OC. It must be locally *c*-commanded by its antecedent, and it only yields BV readings under the ellipsis test. Crucially, however, it yields both coreference and BV readings under the association-with-focus test, patterning this time like a non-obligatorily controlled subject. These unexpected findings are recapitulated in (24):

- (24) Overt vs. Covert PRO paradox
- (i) Both null and overt PRO only allow BV interpretations under the ellipsis test.
 - (ii) Overt PRO, unlike null PRO, also allows coreferential interpretations under the association-with-focus test.

Why do null PRO and overt PRO pattern differently (yield conflicting results) with respect to the two standard tests for pronominal interpretation? In particular, why does overt PRO, unlike null PRO, also allow co-reference interpretations, and why so only under the association-with-focus test, but not under the ellipsis test?

We address this paradox in §4 below. First, however, we turn to the analysis of NOC as instantiated in *sin*-infinitives.

3 Non Obligatory Control in *sin*-infinitives

Sin-infinitives exhibit a uniform NOC pattern. Assuming with Hornstein (1999) that a NOC null subject is not PRO, but *pro*, we develop here an analysis that not only explains why overt DPs and *pro* subjects alternate in these constructions, but also correctly predicts that they yield sloppy readings otherwise unavailable with (overt) pronouns. We put forth an analysis of NOC in terms of DP-ellipsis, in line with ellipsis approaches to null arguments in *pro*-drop languages (cf. a.o. Oku 1998, Saito 2007, Duguine 2013, 2014, Takahashi 2014). *Sin*-infinitives are thus constructions in which DPs (R-expressions or pronouns) surface in subject position and, under the right conditions, can also undergo ellipsis.

3.1 A DP-ellipsis analysis of NOC subjects

This section shows that the *pro*-like null subjects of *sin*-infinitives can behave as complex R-expressions, displaying non-pronominal readings. Consequently, they are better analyzed as elided DPs than as null pronouns. The crucial piece of data is given below. Consider a conversation like (25) where the subject of the *sin*-infinitive in (25b) is null:

- (25) a. María_i dejó de trabajar [sin [su_i jefa]_j decirle_i nada].
María stopped of work.INF without POSS boss say.INF.3SG nothing
'María stopped working without her boss saying anything to her.'

- b. Y Ana_k también dejó de trabajar [sin [Ø] decirle_k
and Ana also stopped of work.INF without say.INF.3SG
nada].
nothing
'And Ana also stopped working without saying anything to her.'

The sentence in (25b) is ambiguous. The null subject can refer either to María's boss or to Ana's boss and the sentence can thus be interpreted as in (26a) or (26b) respectively:

- (26) María stopped working without her boss saying nothing to her.
a. ✓Strict-like reading
And Ana also stopped working without María's boss saying anything to her.
b. ✓Sloppy-like reading
And Ana also stopped working without her own boss saying anything to her.

The strict reading in (26a) can be explained if the null subject in (25b) is a covert pronominal expression, corefering with the DP *su jefa* 'her boss' introduced in the previous discourse in (26). However, since Ana's boss has not been introduced in the prior discourse context, a pronominal expression can logically not give rise to the sloppy interpretation in (26b). This is confirmed by (27): substituting an overt pronoun for the silent subject in (25b) can give rise to the strict interpretation in (26a), but not to the sloppy one in (26b):

- (27) a. María_i dejó de trabajar [sin [su_i jefa]_j decirle_i nada].
María stopped of work.INF without POSS boss say.INF.3SG nothing
'María stopped working without her boss saying nothing to her.'
b. Y Ana_k también dejó de trabajar [sin ella_j decirle_k
and Ana also stopped of work.INF without she.NOM say.INF.3SG
nada].
nothing
'And Ana also stopped working without her saying nothing to her.'

The sloppy reading for the sentence in (25b) can however be accounted for if we postulate that, rather than a pronoun, the null subject is the covert complex R-expression *su jefa* 'her boss'. This analysis would make it possible for the possessive pronoun *su* inside the (covert) R-expression to be bound by the higher

subject *Ana*, giving rise to the targeted sloppy reading in (26b). The ambiguity of (28), where the null subject has been overtly spelled out as the DP *su jefa*, and which allow both the sloppy reading in (26b) and the strict reading in (26a), corroborates our analysis:

- (28) a. *María_i dejó de trabajar [sin [su_i jefa]_j decirle_i nada].*
 María stopped of work.INF without POSS boss say.INF.3SG nothing
 ‘María stopped working without her boss saying nothing to her.’
- b. *Y Ana_k también dejó de trabajar [sin [su jefa]
 and Ana also stopped of work.INF without POSS boss
 decirle_k nada].*
 say.INF.3SG nothing
 ‘And Ana also stopped working without her boss saying nothing to her.’

That (28b) with an overt R-expression in subject position and (25b) with a silent subject yielding the same sloppy reading suggests that, rather than a null pronominal, the null subject of (25b) is a syntactically null complex R-expression embedding the pronoun *su*. Interestingly, these data parallel some data pointed out by Duguine (2013, 2014) in the realm of pro-drop in finite clauses in Spanish. Duguine shows that (29b), with a null subject in a finite context, allows the two interpretations in (30):

- (29) a. *María_i cree [que [su_i jefa]_j le_i exigirá mucho*
 María believes that POSS boss CL.3SG.DAT require.FUT.3SG much
trabajo]. (adapted from Duguine 2014:520)
 work
 ‘María believes that her boss will require a lot of work from her.’
- b. *Y Ana_k espera [que [Ø] le_k dejará los fines de*
 and Ana hopes that CL.3SG.DAT leave.FUT.3SG the ends of
semana libre].
 week free
 ‘And Ana hopes [Ø] will leave her the weekends free.’
- (30) a. ✓Strict reading
 And Ana hopes that María’s boss will leave her the weekends free.
- b. ✓Sloppy reading
 And Ana hopes that her (own) boss will leave her the weekends free.

As already mentioned with regards to (25), postulating that the silent embedded subject is a pronominal incorrectly predicts that (29) should be unambiguous, allowing only the strict reading in (30a), exactly as is the case for (31) where an overt pronoun has been substituted for the silent subject.

- (31) Y Ana_k espera [que ella_j le_k dejará los fines de semana
and Ana hopes that she CL.3SG.DAT leave.FUT.3SG the ends of week
libre].
free
'And Ana hopes she will leave her the weekends free.'
a. ✓Strict reading
b. ✗Sloppy reading

The lack of ambiguity in (31) has the same logical explanation as above: There is no prior discourse antecedent with which the pronoun could corefer that would allow the sloppy interpretation in (30b). In contrast, substituting the full R-expression *su jefa* for the silent subject does give rise to the intended sloppy reading, as illustrated in (32):

- (32) Y Ana_k espera [que [su_k jefa]_j le_k dejará los fines de
and Ana hopes that POSS boss CL.3SG.DAT leave.FUT.3SG the ends of
semana libre].
week free
'And Ana hopes her (own) boss will leave her the weekends free.'
a. ✓Sloppy reading
b. ✓Strict reading

As already pointed out with respect to (25b), the ambiguity of (29b), on a par with that of (32), suggests that null arguments can be null complex R-expressions. Based on this observation, Duguine (2013, 2014) proposes that null (finite) subjects in Spanish (and other languages such as Basque) are elided DPs. Under this view, the interpretations in (30a) and (30b) come out as strict and sloppy readings (respectively), arising under ellipsis. Duguine's analysis builds on previous literature on null arguments in East-Asian languages such as Korean or Japanese. As is indeed well-known, null arguments in these languages allow non-pronominal interpretations (cf. Oku 1998, Kim 1999, Saito 2007, Takahashi 2014). This is illustrated in Japanese (33), where the null object in the second conjunct can yield not only a pronominal/strict, but also an anaphoric/sloppy reading:

(33) Japanese (Takahashi 2014)

Taroo_i-wa zibun_i-o semeta-ga, Ken_j-wa [Ø] kabatta.
Taroo-TOP self-ACC blamed-while Ken-TOP defended
Lit. While Taroo blamed self, Ken defended [Ø].

- a. ✓Strict reading
Ken defended Taroo.
- b. ✓Sloppy reading
Ken defended himself.

The sloppy reading in (33b) indicates that the null object has the properties of a locally bound anaphor. Sloppy readings represent a major challenge for analyses of null arguments assuming *pro* as a primitive – e.g. Chomsky (1982), Rizzi (1986) – since in the configuration in (33b), the null pronominal would be locally bound, violating Binding Condition A (see (34a)). This problem disappears, however, with an analysis in terms of ellipsis – here ellipsis of an anaphor, as indicated in (34b) (cf. Oku 1998, Kim 1999, Saito 2007, Takahashi 2014):

(34) a. ✗Sloppy reading

Ken_j-wa *pro* kabatta.
Ken-TOP defended

b. ✓Strict reading

Ken_j-wa zibun_i-o kabatta.
Ken-TOP self-ACC defended

In sum, the availability of sloppy readings for the null subjects of *sin*-infinitives provides a compelling argument for a DP-ellipsis analysis of NOC.

3.2 Parallelism conditions on DP-ellipsis

Building on Fox's (2000) Conditions on NP-Parallelism, Duguine (2013, 2014) develops an analysis of argument ellipsis which accounts for the varieties of readings null arguments give rise to. Under this account, an elided DP must satisfy either of the conditions in (35):

(35) DP-Parallelism (adapted from NP-Parallelism; Fox 2000: 117)

DPs in the elided constituent and their antecedents must either:

- a. have the same referential value (Referential Parallelism), or
- b. be linked by identical dependencies (Structural Parallelism).

The Conditions on DP-Parallelism will provide a formal account of the strict and sloppy readings that NOC null subjects display. The relevant piece of data in (25) and its possible interpretations in (26) are repeated in (36)–(37):

- (36) a. María_i dejó de trabajar [sin [su_i jefa]_j decirle_i nada].
 María stopped of work.INF without POSS boss say.INF.3SG nothing
 ‘María stopped working without her boss saying nothing to her.’
- b. Y Ana_k también dejó de trabajar [sin [Ø] decirle_k
 and Ana also stopped of work.INF without say.INF.3SG
 nada].
 nothing
 ‘And Ana also stopped working without saying nothing to her.’
- (37) a. ✓Strict-like reading
 And Ana also stopped working without María’s boss saying nothing to her.
- b. ✓Sloppy-like reading
 And Ana also stopped working without her own boss saying nothing to her.

Now, to derive the strict reading in (37a), the condition on Referential Parallelism must be satisfied. The latter requires the null subject in (36b) to share the same referential value as its discourse antecedent, *su jefa* in (36a). We can achieve this by postulating the representation in (38b) where the pronoun *ella* ‘her’, corefering with its discourse antecedent *su jefe*, undergoes ellipsis:

- (38) a. María_i dejó de trabajar [sin [su_i jefa]_j decirle_i nada].
 b. Y Ana_k también dejó de trabajar [sin ella_j decirle_k nada].

On the other hand, to derive the sloppy reading in (37b), the condition on Structural Parallelism must be satisfied. The latter requires identical binding dependencies across both (36a) and (36b). We can achieve this by postulating the derivation in (39b): the complex DP *su jeja* occupying the embedded subject position and containing a pronoun bound by the matrix subject undergoes ellipsis, yielding the surface structure in (36b) under the reading in (37b).

- (39) a. María_i dejó de trabajar [sin [su_i jefa]_j decirle_i nada].
 b. Y Ana_k también dejó de trabajar [sin {su_k jefa}_m decirle_k nada].

(39a) and (39b) display identical anaphoric dependencies between the matrix subject, the possessive pronoun and the (dative) clitic, thus satisfying the condition on Structural Parallelism and licensing ellipsis in (39b).

3.3 Interim conclusion

The DP-ellipsis analysis of non-obligatorily controlled null subjects in *sin*-infinitives elegantly predicts that they allow sloppy readings otherwise unavailable with overt pronouns. It also automatically explains why overt subjects in *sin*-infinitives freely alternate with referentially free null subjects. That is to say, ellipsis presumes this alternation to be possible in the first place: DP-ellipsis targets overt DPs and, as such, can only occur where overt DPs can surface, in the same way that VP-ellipsis can only occur where overt VPs can surface.

4 Obligatory Control: the overt vs. covert PRO puzzle (*para*-infinitives)

§2.3 showed that null vs. overt PRO in *para*-infinitives converge in all but one of their properties: While under both the ellipsis and focus particle tests the former only allows BV interpretations, the latter also allows coreferential readings but under the association-with-focus test only. This is summarized in Table 2.

Table 2: Null vs. overt PRO in *para*-infinitives.

		Overt PRO	Null PRO
BVA	Ellipsis test	yes	yes
	Association-with-focus test	yes	yes
Coreference	Ellipsis test	no	no
	Association-with-focus test	yes	no

We now tackle the questions raised in §2.4, regarding how to reconcile our contradictory findings and solve the paradox that these unexpected results give rise to, repeated in (40) (see also (24)):

- (40) Overt vs. Covert PRO paradox
- (i) Both null and overt PRO only allow BV interpretations under the ellipsis test.
 - (ii) Overt PRO, unlike null PRO, also allows coreferential interpretations under the association-with-focus test.

Why do null PRO and overt PRO pattern differently (yield conflicting results) with respect to the two standard tests for pronominal interpretation? In particular, why does overt PRO, unlike null PRO, also allow coreference interpretations,

and why so only under the association-with-focus test, but not under the ellipsis test?

First of all, it should be pointed out that the conflicting patterns of interpretation that arise with overt PRO also arise with overt anaphors such as *himself* in English or *se* in French. Indeed, both have also been reported to allow coreferential readings alongside BVA under the association-with-focus test. This state of affairs is illustrated in (41) through (44), taken from Sportiche (2014) (based on a remark due to M. Prinzhorn about German).¹²

- (41) a. Only Pierre shaves himself.
 b. Seul Pierre se rase.
 only Pierre CL.3 shave
 ‘Only Pierre shaves himself.’

That both statements are ambiguous between a BV and a coreferential reading is shown by the fact they can be denied in two different ways:

- (42) a. No, I shave myself too.
 b. Non, moi aussi je me rase.
 no I also I CL.1sgACC shave
 ‘No, I shave myself too.’
 →VP property: $\lambda x(x \text{ shave } x)$ BVA

- (43) a. No, I shave him too.
 b. Non, moi aussi je le rase.
 no I also I CL.3sgACC shave
 ‘No, I shave him too.’
 →VP property: $\lambda x(x \text{ shave } y)$ with $y = \text{Pierre}$ Coreference

Furthermore, Sportiche (2014) points out that VP-ellipsis does not give the same result as association with *only* since it does not allow a coreferential interpretation for anaphors. For instance, the second conjunct in (44a) or (44b) below cannot be interpreted as meaning “Pierre shaved Jean”:

- (44) a. Jean s’est rasé et Pierre aussi.
 Jean CL.3.is shaved and Pierre also
 ‘Jean shave himself and Pierre did too.’
 b. Jean shaved himself and Pierre did, too.

¹²For discussion of these issues, see Büring (2005) and references therein, as well as Footnote 13.

The contrast above suggests that the conflicting patterns of interpretation that overt PRO yields is not a surprising state of affairs, but rather appears to reflect a more general property of overt anaphors, be it self-anaphors or overt PRO. We thus put forth the following generalizations to account for the Overt vs. Covert PRO paradox in (45):¹³

- (45) The Anaphor Generalizations
- (i) Both null and overt anaphors need to be syntactically bound.
 - (ii) Overt anaphors can be semantically bound, null anaphors *must* be semantically bound.

Example (45) requires null anaphoric expressions such as PRO to be both syntactically bound (that is, coindexed with a c-commanding DP) and semantically bound (that is, interpreted at LF as a variable bound by a predicate abstractor/ λ -operator), while only enforcing syntactic binding for overt anaphors, which include self-anaphors like *se* and *himself*, as well as overt PRO. Consider first the ellipsis context in (21), repeated here as (46):

- (46) Juan_i se fue [para él_i/ [Ø]_i estar feliz] y María_k también.
 Juan CL.3 left for he be.INF happy and María also
 ‘Juan left to be happy and María did too.’
- a. ✓Sloppy reading (BVA)
 María left in order for María to be happy.

¹³Büring (2005: 141) discusses the wrong prediction made for reflexives in association-with-focus constructions (namely, that they should only allow BV construals, contrary to fact), concluding with a suggestion similar in spirit to ours: “As far as I know, this wrong prediction has not been addressed in the pertinent literature. The only immediate way to capture this behavior would seem to be to reformulate Binding Condition A so as to require that reflexives be *either* semantically or syntactically bound within their local domain, accepting the fact that Binding Conditions A and B are simply not on a par”. This suggestion, however, does not carry over straightforwardly to ellipsis contexts where, as discussed by Büring, the pattern is more complex. Roughly, strict readings are generally impossible in coordinated ellipsis (i), but possible in subordinated ellipsis (ii), a generalization advocated by Hestvik (1992):

- (i) John defended himself, and Peter too. (sloppy)
- (ii) John defended himself better than Peter. (strict or sloppy)

As Hestvik points out, the crucial factor at play in subordinated ellipsis –but lacking in coordinated ellipsis– is that the matrix antecedent of the reflexive on the strict reading c-commands the ellipsis site and, as such, can bind the anaphor in the elided VP.

This contrast is in keeping with the generalization in (45(i)) since the anaphor in the ellipsis site can satisfy the syntactic binding requirement in (ii) but not in (i).

b. ✗Strict reading (*Coreference*)

María left in order for Juan to be happy.

Both overt and null PRO only allow the BV construal in (46a). This is accounted for by the syntactic binding requirement in (45(i)) which anaphors, whether they are overt or not, are required to satisfy. The sloppy/BV reading is available because the representation in (47a) satisfies (45(i)) since in each conjunct, the matrix subject locally binds (c-commands) the embedded overt/null PRO.

- (47) a. ✓Juan_i se fue [para él_i/[Ø]_i estar feliz] y María_k también <se fue [para ella_k/[Ø]_k estar feliz]>.
 b. ✗Juan_i se fue [para él_i/[Ø]_i estar feliz] y María_k también <se fue [para él_i/[Ø]_i estar feliz]>.

In contrast, the strict/coreference reading in (46b) is unavailable because the representation in (47b) fails to satisfy (45(i)) since the overt/null PRO embedded in the second conjunct is not bound (c-commanded) by the matrix antecedent in the first conjunct.

We turn next to the association-with-focus paradigm in (22)–(23), repeated below. This time, (45(i)) does not filter out the coreferential reading in (48) since both overt and null PRO can be bound by the matrix antecedent, thus satisfying (45(i)):

- (48) Sólo María_i hizo trampa [para ella_i/[Ø]_i ganar el primer lugar].
 only María made trap for she win.INF the first place
 ‘Only María cheated in order for herself to win the first place’.

(45(ii)), however, is at play here, explaining why null and overt PRO cannot be interpreted alike in this context:

- (49) Sólo María_i hizo trampa [para [Ø]_i ganar el primer lugar].
 only María made trap for win.INF the first place
 ‘Only María cheated in order for herself to win the first place’
 a. ✓BVA
 No, Daniela also cheated in order for herself to win.
 Daniela (λy (y also cheated in order for y to win)).
 b. ✗Coreference
 No, Daniela also cheated in order for María to win.
 Daniela (λy (y also cheated in order for her to win))
 (her= María)

- (50) Sólo María_i hizo trampa [para ella_i ganar el primer lugar].
only María made trap for she.NOM win.INF the first place
'Only María cheated in order for herself to win the first place.'
- a. ✓*BVA*
No, Daniela also cheated in order for herself to win.
Daniela (λy (y also cheated in order for y to win)).
- b. ✓*Coreference*
No, Daniela also cheated in order for María to win.
Daniela (λy (y also cheated in order for her to win))
(her= María)

Example (50) with an overt PRO subject in the *para*-clause can be denied either on its BV construal in (50a) or on its coreferential construal in (50b). In contrast, (49) with a null PRO instead can only be denied on its BV construal in (49a) but not on its coreferential construal in (49b). This contrast establishes that the coreferential reading is available for overt PRO but not for null PRO. It follows, moreover, automatically under (45(ii)): null PRO, unlike its overt counterpart, must be semantically bound, and thus obligatorily interpreted as a BV. In contrast, overt PRO can but need not be semantically bound and, as such, is free to corefer with its DP antecedent *María*.

5 Conclusion

We started off by exemplifying how adjunct clauses in CS instantiate three different but systematic patterns of exception to the generalizations commonly assumed to hold of infinitival subjects (as stated in (1)):

- *Al*-infinitives, which display the characteristic diagnostics of OC, violate the ban on overt (nominative) subjects.
- *Para*-infinitives, which also display the characteristic diagnostics of OC, violate the ban on overt controlled subjects (leading automatically to a violation of the ban on overt subjects).
- *Sin*-infinitives, which display the characteristic diagnostics of NOC, violate both the ban on overt subjects and the ban on referentially free null subjects.

We explored a novel DP-ellipsis analysis of NOC (*sin*-infinitives), providing compelling arguments in favor of ellipsis over the alternative silent pronoun

(*pro*) analysis (advocated by Hornstein 1999 for NOC). In particular, DP-ellipsis elegantly predicts that non-obligatorily controlled subjects allow sloppy readings otherwise unavailable with overt pronouns and automatically explains why overt subjects in *sin*-infinitives freely alternate with referentially free null subjects.

The null subjects of *para*-infinitives display all the signature properties of OC PRO. Interestingly, overt pronouns in the same position, while also displaying diagnostic properties of OC, yield dissonant results with respect to the tests for pronominal interpretation. Under the association-with-focus test (but not the ellipsis test), a NOC-like pattern emerges, with overt PRO (but not null PRO) allowing coreferential readings, alongside BV readings. We suggested that this state of affairs appears to reflect a more general property of overt anaphors, be it overt PRO or self-anaphors. We argued that the conflicting patterns of interpretation that covert vs. overt PRO yield in *para*-infinitives follow from the *Anaphor Generalizations* in (45), which require null anaphors to be syntactically and semantically bound while enforcing only syntactic binding for overt anaphors.

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