Lund University

GLOW 36

EVIDENCE FROM THE INTERPRETATION OF NULL ARGUMENTS PRO-DROP AS ELLIPSIS:

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Background:

It is generally accepted that there are (at least) two types of pro-drop (cf. a.o. Oku 1998, Baker 2001, Holmberg 2005, 2010, Tomioka 2003, Takahashi 2007, 2010, Speas 2006, Neeleman & Szendröi 2007, Roberts 2010, Sener & Takahashi 2010, Miyagawa 2012).

pro drop via inflection/agreement vs. radical/discourse pro-drop A widely extended view:

Goals of the talk

- 1. To show that reductionist approaches to the phenomenon of null arguments (NAs) must be preferred over non-reductionist approaches (Part 1).
- 2. To show that an reductionist analysis is possible, where NAs result from DP/NP-ellipsis across all pro-drop languages (Part 2).
- 3. To show that the interpretive properties of NAs can be accounted for in terms of an independently needed condition on Parallelism, which requires ellipsis sites to have a suitable discourse antecedent (Part 3).

Part 1

A UNITARY ACCOUNT OF PRO-DROP IS DESIRABLE¹

1.1. OCCAM'S RAZOR

From a conceptual and methodological viewpoint, it is never an optimal solution to offer two different analyses of the same phenomenon.

- productive, and even illuminating at certain stages of the comprehension of an issue [...], but the desideratum of "Disjunctive statements are intrinsically unsatisfactory. Admitting a disjunctive formulation amounts to admitting that the nature of a generalization is not understood: if I write a principle as saying that either property A or property B must be fulfilled, I am implicitly admitting that I do not understand the nature of the formal or functional equivalence holding between A and B. Of course a disjunctive formulation can turn out to be extremely avoiding disjunctions is an important one, even in the face of significant descriptive success." (Rizzi 1990: 76-77)
- If null arguments (NAs) have invariant properties cross-linguistically, the default hypothesis is that in all these languages, they are the same type of element, and are subject to the same licensing conditions.
- Assuming that languages can appeal to different sets of null elements with the same properties or to different licensing conditions with indistinguishable results has a substantial cost for the theory of grammar.
- ► A distinction should only be assumed if there is strong evidence that the same explanation cannot be given for the whole phenomenon under analysis.

1.2. 'RADICAL' PRO-DROP IN RICH AGREEMENT LANGUAGES²

1.2.1. FINITE CLAUSES VS. NON-FINITE CLAUSES

me.erg Jon.dar papers.abs give 3plabs.aux.3sgdar.1sgerg artikuluak eman dizkiot. 'I gave the papers to Jon.' Joni ė Ξ

Basque

[e] [e] [e] eman dizkiot. þ.

give 3plabs.aux.3sgdar.1sgerg 'I gave them to him/her/it.'

give.nmrz artikuluak ematea]? want AUX me.erg Jon.dat papers.abs 'Do you want me to give the papers to Jon?' [e] nahi duzu [nik Joni ė, 5

[e] nahi duzu [[e] [e] [e] ematea]? þ.

want Aux

'Do you want me/him/her/it/us/them to give me/you/him/her/it/us/them to me/you/him/her/ it/us/them?'

Nya-ngu-rna-ngku. see-past-1sg-2sg I saw you'. ė 3

(Legate 2002: 32)

Warlpiri

[e], [e] nga-rnu [e]. COOK-INF-PRIORC Purra-nja-rla

þ.

(Laughren 1989: 326) Having cooked (it), (he/she/it) ate (it).'

1.2.2. Inflected vs. non-inflected matrix clauses

(Nadahalli 1998: 57) eat.PAST.3Sg.M Gopi/[e] haNNannu tinda. Gopi.nom fruit.acc (Gopi) ate fruit. ė, 4

COMP.GER.NONPAST.NEG (I) am not coming.' [e] baruvudilla.

þ.

(2)

nyuntu-ku. FUT.C-1sg-2sg give-NPAST you-DAT Ngajulu-rlu kapi-rna-ngku yi-nyi I will give (it/them/...) to you'.

Warlpiri (Laughren 1989: 326)

(Nadahalli 1998: 58)

By distinguishing different types of NAs (or different ways of licensing them), we imply that null elements with the same properties can have different sources in individual languages In this regard, a unitary explanation has clear advantages.

1.3. THE PROPERTIES OF NAS ACROSS PRO-DROP LANGUAGES

1.3.1. DISCUSSION OF THE EMPIRICAL BASES FOR DIFFERENTIATING TYPES OF PRO-DROP

Miyagawa 2012, a.o.: different types of null arguments must be distinguished across and within Oku 1998, Tomioka 2003, Saito 2007, Takahashi 2007, 2010, Abe 2009, Şener & Takahashi 2010, languages, since they do not all display the same properties.

¹ I will limit the discussion to standard referential null arguments, excluding other types of non-overt subjects, like null expletives, null generics, 'controlled' null subjects, 'null topics'.

Relevant abbreviations: [e] = null argument, AUX = inflected auxiliary, ABS = absolutive, DAT = dative, ERG = ergative, NF = inessive, D = determiner SG = singular, PL = plural, NALZ = nominalizing morpheme.

■ Generalization on the interpretation of NAs

There are empirical differences in the possible interpretations of NAs, regarding (i) the sloppy interpretation and (ii) the indefinite/quantificational interpretation.

- Sloppy reading of subjects in Japanese and Spanish
- (Oku 1998: 165) saiyo-sare-ru-to] omotteiru. Mary-top self-gen proposal-nom accept-pass-that think 'Lit. Mary thinks that self's proposal will be accepted.' Mary-wa [zibun-no teian-ga
- John-mo [[e] saiyo-sare-ru-to] omotteiru. В:

Lit. John also thinks that [e] will be accepted. accept-PASS-that think John-also

- ✓ Strict reading for (6b): 'John also thinks that Mary's proposal will be accepted.' 0
- ✓ Sloppy reading for (6b): John also thinks that his own proposal will be accepted.
- Spanish (Oku 1998: 165) María cree que su propuesta será aceptada. Maria believes that her proposal be.Fur.3sgaccepted 'Maria believes that her proposal will be accepted.' Ä

8

- be.fur.3sg accepted Juan also believes that [e] will be accepted.' que [e] será believes that Juan también cree .: В
- **✗** *Sloppy reading for (8b)*: 'Juan also believes that his own proposal will be accepted.' ✓ Strict reading for (8b): 'Juan also believes that Maria's proposal will be accepted.' 6
- Indefinite reading of null subjects in Japanese and Spanish
- (Oku 1998: 166) salesman-nom Mary-gen house-to came Seerusuman-ga Mary-no uchi-ni kita. 'A salesman came to Mary's house.' (10) A:
 - [e] John-no uchi-ni-mo kita. ë

John-GEN house-to-also came Lit. Came to John's house, too.

- (11) ✓ Definite reading for (10b): The salesman/He came to John's house, too.'
- ✓ Indefinite reading for (10b): 'A salesman came to John's house, too.'
- (Oku 1998: 166-7) Un vendedor fue a la oficina de María. (12) A:
 - a la oficina de Juan. go.PST.3sg to the office of Juan Lit. Also went to Juan's office. También [e] fue B:
- (13) ✓ *Definite reading for (12b)*: 'The salesman/He came to Juan's office, too.'
 - ✗ Indefinite reading for (12b): 'A salesman came to Juan's office, too.'
- The hypothesis put forth in the literature: NAs across (and within) languages can be fundamentally different (cf. Oku 1998, Saito 2007, Takahashi 2007, 2010, Miyagawa 2012)
- * pro-type null arguments: licensed/identified via inflection/agreement ▲ elided NPs/DPs: licensed by/in the absence of agreement/inflection strict & sloppy (definite) readings, and indefinite readings → strict and definite readings (14)

Sener & Takahashi (2010): both types of NAs coexist in Turkish:

(Sener & Takahashi 2010: 86) elided object throw-past-1sg (15) ([e]) ([e]) at-tı-m. Lit. 'I threw [e].'

3 But see Sigurðsson (2011) and Quer & Roselló (2013) for recent attemps towards a unification

1.3.2. THE GENERALIZATION REGARDING THE SLOPPY READING IS INCORRECT

Prediction of (14): null DPs that trigger agreement will never allow a sloppy reading.

Facts: there are counterexamples to the generalization on sloppy readings (cf. also Koulidobrova (2011) Spanish on ASL, and Roselló & Quer (2013) on Catalan Sign Language). (16) A:

- El primer año de tesis, mi director me trató muy bien. the first year of thesis my supervisor cl.1sg(p.ʌr) treat.rsr.3sg very well. 'The first year, my supervisor treated me very well.'
 - NEG cl.1sg(DAT) make.PST.3sg NEG attention Lit. 'Well, to me, [e] didn't pay attention!' Pues, ja mi [e] no me well to me .: В
- (17)

 Strict reading for (16B): 'Your supervisor didn't pay attention to me.' ✓ Sloppy reading for (16B): 'My supervisor didn't pay attention to me.'
- park.to take HABIT 3plabs.AUX.3pleRG Jonek bere txakurrak parkera eraman ohi Jon habitually takes out his dogs to the park.' Ä: (18)

Basque

Lit. 'Well, generally Miren takes out [e] to the mountain.' (strict ✓; sloppy ✓) 3plabs. Aux. 3plerg mostly eramaten ditu mountain.to take Ba, Mirenek [e] mendira well Miren Б.

(19) A:

(strict ✓; sloppy ✓) 18 urte bete nituenean, mire gurasoek moto bat eskaini zidaten. 18 year fill AUX.when my parents moto one offer AUX AUX. 3SgABS. 1SgDAT. 3plerG 'For my 18th birthday, my parents offered me a moto.' [e] liburu bat eskaini zidaten! Lit. 'Well, to me, [e] offered a book!' book one offer ni-ri Ba, .: B

1.3.3. THE INDEFINITE READING OF NULL ARGUMENTS

Prediction of (14): there will be a one-to-one correlation between agreement and the availability of the indefinite reading.

- *Facts (I)*: the data in Basque is much more complex than predicted.
- As predicted if the indefinite reading is blocked by agreement, in finite clauses, null subjects and objects (generally) cannot have an indefinite interpretation (see Duguine 2006, Takahashi 2007):
- one Miren.gen house.to go AUX.3sgabs joan da. bat Mirenen etxera 'A salesman went to Miren's house.' salesman Saltzaile (20) A:

Basque

(definite ✓; indefinite 🛪) Jon.gen house.to go AUX.3sgabs too Lit. [e] went to Jon's house, too.

joan da

etxera

[e] Jonen

ë

- Lerg salesperson one see AUX.3sgABS.1sgERG house front.in I saw a salesman in front of the house. (Nik) saltzaile bat ikusi dut (21) A:
- (definite \checkmark ; indefinite \mathbf{x}) workplace.in see AUX.3sgABS.1sgERG ikusi dut. Lit. I saw [e] in the workplace. Nik) [e] lantokian .: В

- Nonetheless, there are contexts in which this reading becomes available (Duguine 2006);
- denboraldi honetan. this LERG two goal enter AUX. Isgerg. 3plabs season gol sartu ditut (Nik) bi (22) A:

I scored two goals this season. ?Nik ere \Delta sartu ditut! Ë

enter AUX.1sgerg.3plabs LERG too

(indefinite reading ✓) I scored (two goals), too.'

- Agreement-less contexts in which the indefinite interpretation is not available:
- Basque Lerg salesperson one Miren.gen house-to go.nmlz.D.abs want Aux nahi dut. joatea I would like a salesperson to go to Miren's house.' (Nik) [saltzaile bat Mirenen etxera (23) a.
- dut. Jon.gen house-to too go.nmlz.d.abs want aux (Nik) [[e] Jonen etxera ere joatea] ь.

(indefinite reading X) Lit. I want [e] to go to Jon's house, too.'

- Facts (II): Indefinite NAs found in Spanish-like languages do not constitute a subset of NAs.
- Spanish (Campos 1986) 'Did you buy bread/the bread?' Compraste pan/ el pan? buy.past-2sg bread the bread rj.
- . Б Sí, [e] compré ف
 - buy.PAST-1sg ves
- * Definite reading: 'Yes, I bought it/the bread.'
 - ✓ Indefinite reading: 'Yes, I bought bread.'
- 'Did Andreas bring several/some/a few/ten/the books?' (Giannakidou & Merchant 1997) Efere o Andreas merika kapja /liga /deka /ta vivlia? (25) a.
 - <u>.</u> Ne, [e] efere 6
 - brought.3sg
- * Definite reading: 'Yes, he brought them/the books.'
- ✓ Indefinite reading: 'Yes, he brought ({several/some/a few/ten} books).'
- ▶ The data suggest that it is a distinct phenomenon (cf. Giannakidou & Merchant 1997, Moriyama & Whitman 2004).
- Another correlation that is worth taking into account: the DP-NP distinction.

The categorial status of elided constituents could be crucial (Tomioka 2003, Barbosa 2011).

→ Alternative explanations are possible.

Summary. The analysis in (14) is not well-supported empirically:

- The sloppy reading of NAs is available in association with agreement morphology.
- agreement (unless the definite reading is unavailable), the correlation wih agreement is not clearcut. Although the quantificational reading of NAs seems to be generally blocked in languages with

Conclusion: There are not enough reasons to abandon the null hypothesis that pro-drop is a unitary phenomenon cross-linguistically.

Part 2

PRO-DROP AS THE ELLIPSIS OF ARGUMENTS

2.1. NON-PRONOMINAL READINGS OF NAs IN EAST ASIAN LANGUAGES

- NAs with a sloppy interpretation in cases like (25) and (27) cannot be of the 'pro' type (cf. a.o. Huang 1991, Otani and Whitman 1991, Kim 1999, Saito 2004, 2007, Takahashi 2007, 2008a)
- These readings can be straightforwardly accounted for by an account in terms of ellipsis of arguments (Oku 1998, Kim 1999, Tomioka 2003, Saito 2004, 2007, Takahashi 2007, 2008a).

Anaphoric null arguments:

(Takahashi 2010) *Lit.* While Taroo blamed self, Ken defended [e]. (strict \checkmark ; sloppy \checkmark) defended Ken-wa [e] kabatta. Taroo-rop self-Acc blamed-while Ken-rop (25) Taroo-wa zibun-o semeta-ga,

Accounting for the sloppy reading:

- defended *Keni-wa proi kabatta. Ken-TOP (26) a.
- Keni-wa zibuni-o kabatta. Ъ.
- Ken-rop self-acc defended

Null arguments with internal structure:

John-TOP zibun-GEN letter-ACC discard John-wa [zibun-no tegami]-o suteta. (27) A:

(Otani & Whitman 1991: 346-7)

'John threw out his letters.' discard Mary-mo [e] suteta. Mary-also B:

(strict √; sloppy √) Lit. 'Mary also threw out [e].'

Accounting for the sloppy reading:

- *Mary_i-mo pro_i suteta. (28) a.
- discard Mary-also
- Mary_i-mo [zibun_i-no tegami]-o suteta. Ъ.

Mary-also zibun-gen letter-acc discard

2.2. EXTENDING THE ANALYSIS TO LANGUAGES WITH AGREEMENT

My proposal: the whole pro-drop phenomenon should be reduced to ellipsis

The discussion that follows can be viewed as a proposal regarding how we could proceed in developing a unitary approach to the pro-drop phenomenon.4

Immediate advantages

- Reduction of the phenomenon of NAs to the independently attested ellipsis phenomenon.
- Ellipsis is (in principle) available in all languages; thus the analysis can be adapted to instances of pro-drop with and without agreement.

9

Although ellipsis or deletion analyses have been proposed for languages with agreement morphology by authors like Holmberg (2005, 2010), Sheehan (2007), Saab, (2008), and Roberts (2010)), they have not been unified with the ellipsis analyses of Japanese-like languages. Actually, these analyses do not necessarily predict the ellipsis of anaphors or DPs with internal structure to be possible (see Duguine 2013).

■ Duguine (2008): NAs as elided arguments in Basque (see also Spanish (15))

- (=(18))HABIT 3plabs.AUX.3pleRG Jonek, bere, txakurrak parkera eraman ohi Jon Poss dog park.to take наві Jon habitually takes out his dogs to the park.' (29) A:
 - *Lit.* 'Well, generally Miren takes out [e] to the mountain.' (*strict* ✓; *sloppy* ✓) gehienetan. 3plabs.aux.3plerg mostly eramaten ditu mountain.to take Ba, Mirenek_j [e] mendira .: B
- (=(19))18 urte bete nituenean, nire gurasoek moto bat eskaini zidaten. 18 year fill AUX.when my parents moto one offer AUX For my 18th birthday, my parents offered me a moto.' (30) A:
 - (strict √; sloppy √) book one offer AUX.3sgabs.1sgDAT.3pleRG Ba, ni-ri [e] liburu bat eskaini zidaten! Lit. Well, to me, [e] offered me a book! well me-DAT Ë.
- (strict √; sloppy √) (31) Jonek bere burua kritikatzen duelarik, Mirenek [e] goraipatzen du. Lit. 'When Jon criticizes himself, Miren praises [e].' AUX.when Miren his/her head criticize Jon

Summary: there is evidence in favor of extending the ellipsis analysis of null arguments to languages with agreement morphology

▶ A unitary analysis of pro-drop, besides being desirable (*cf.* Part 1), is also well-supported empirically.

THE PARALLELISM CONDITION ON DP-ELLIPSIS Part 3

Goal of this section: to show that Fox' (2000) DP-Parallelism principle carries over NAs (analyzed as elided DPS) and that our analysis in terms of ellipsis + DP-Parallelism makes a wide range of correct predictions.

► The unitary analysis of pro-drop in terms of ellipsis is well-supported empirically and conceptually.

3.1. THE CONDITION ON DP-PARALLELISM: FOX (2000)

- Assumption: the Parallelism condition on ellipsis requires semantic as well as some type of syntactic identity (cf. Fox 2000, Merchant 2008, Chung 2013).
- Ambiguity of anaphora: bound-variable use and (co-)referring use (cf. Reinhart 1983, Heim & Kratzer 1998, Kratzer 2009).
- Fox (2000): both bound variables and referential DPs can undergo ellipsis (as part of a larger
- (32) DP-Parallelism condition on ellipsis (adapted from Fox 2000: 117) have the same referential value (Referential Parallelism), or DPs in the elided VP and its antecedent must either
 - be bound by identical dependencies (Structural Parallelism).

▶ Strict/sloppy alternations in ellipsis are accounted for in terms of referential/bound variable

3.2. FOX' DP-PARALLELISM CARRIES OVER TO NAS

Strict/sloppy alternations in VP-ellipsis (Fox 2000)

- (33) John takes out his dog, and Bill does <vp >, too.
 - (strict reading) A.... take out John's dog.
- (sloppy reading) B. ... take out Bill's dog.
- (34) a. John; takes out [his, dog], and Bill; does <take [his, dog] out>, too.
- John takes out his dog, and Bill does < take out his dog>, too.

■ Extending the analysis: strict/sloppy alternations with NAs

Strict and sloppy readings in (29):

- (35) a. Jon takes [his, dog] to the park, and Miren takes <[his, dog]> to the mountain.
 - Jon takes his dog to the park, and Miren takes <her dog> to the mountain.

Strict and sloppy readings in (30):

- When Jon, criticizes himself, Miren praises <Jon,> (36) a.
- When Jon criticizes himself, Miren praises <herself>

Strict and sloppy readings in (31):

- (37) a. My_i parents offered me a moto. // <They_i > offered me a book.
- My parents offered me a moto // <My parents> offered me a book.

■ Standard cases of NAs

visto a Juan_i. [e]_i quiere hablar contigo. have.1sg seen to Juan

Spanish

- 'I saw Juan. He wants to talk to you.'
- Referential Parallelism accounts for the generalization whereby null subjects are generally dependent on a discourse antecedent (cf. Frascarelli 2007).
- ▶ *Results*: Fox's (2000) DP-Parallelism can account for null arguments/DP-ellipsis the same way it accounts for the properties of DPs embedded within elided constituents (see also Duguine 2012).

3.3. PREDICTION I: VEHICLE CHANGE EFFECTS

Given the DP-Parallelism condition, morphosyntactic isomorphism is not required for ellipsis.

- *They arrested Alexi, though he thought they wouldn't arrest Alexi. (38) a. They arrested Alex, though he, thought they wouldn't <_{γp} >.
 b. *They arrested Alex, though he, thought they wouldn't arrest
 - They arrested Alexi, though hei thought they wouldn't arrest himi

→ **Prediction**: 'vehicle change effects' (Fiengo & May 1994) in the realm of NAs (*cf.* also (37a)).

- AUX-that think lagunduko dute-la uste *Lit.* Jon thinks that the professors will help [e]. help.rur (39) Jonek, irakasleek [e]i profesors
- help.fut Aux-that think Aux (40) Jonek, irakasleek bera,/*Jon, lagunduko dute-la uste du. Jon thinks that the professors will help him/Jon.' he/Jon

3.4. PREDICTION II: NULL ANAPHORS REQUIRE AN OVERT ANTECEDENT

Anaphors are generally BVs (Reinhart 1983, Büring 2005).

- \rightarrow **Prediction:** Null anaphors will only be licensed when the discourse context provides another anaphor bound in an identical dependency. The prediction is borne out (cf, Hoji (1998) on Japanese, Huang (1989) on Chinese, and Kim (1999) on Korean, citing Whitman (1988)):
- (Takahashi 2010) Japanese defended Kenj-wa [e]j kabatta. 'While Taroo blamed himself, Ken defended [e].' (41) Taroo₁-wa zibun₁-o semeta-ga, Ken₁-wa [e Taroo-rop self-acc blamed-while Ken-rop
- Japanese (Hoji 1998: 130) John_i-ga zibun_i-o /#[e]_i nagusameta (koto). consoled John-nom self-acc 'John consoled [e].' (42)
- Basaue Jonek, bere burua kritikatzen duelarik, Mirenek, [e], goraipatzen du. 'When Jon criticizes himself, Miren praises herself.' Jon Poss.head criticize AUX.when Miren (43)
- AUX (44) #Mirenek_i [e]_i goraipatzen du. Miren praises herself.'

3.5. FURTHER SIMILARITIES WITH VP-ELLIPSIS

3.5.1. ELLIPSIS WITH NON-LINGUISTIC ANTECEDENTS

- NAs without a linguistic antecedent.
- (45) [Context: observing a student smoking in the classroom]
- (Takahashi 2008a: 416) sinu kamosirenai. lung cancer-of die may [e] hai gan-de

'He may die of lung cancer.'

- Takahashi (2008a), Abe (2009): cases like (26) show that (at least certain) NAs are not elided DPs
- (Hankamer & Sag 1976) (46) [Context: Hankamer attempts to stuff a 9-inch ball through a 6-inch hoop] Sag: #It's not clear that you'll be able to <vp>>.
- However, VPE with non-linguistic antecedent is also possible (Lobeck 1995, Merchant 2004):
- (47) a. [John attempts to kiss his wife while driving] John, you mustn't. b. [As an invitation to dance] Shall we?
- c. [Mary gets John an expensive present] Oh Mary, you shouldn't have!

3.5.2. SLOPPY READING AND THE SIZE OF ELLIPSIS

- *Observation on VP-ellipsis*: There can be contrasts in the availability of the sloppy reading between the ellipsis of a larger vs. smaller constituent when both are possible (Sag 1976, Fox & Takahashi 2005, Hardt 2006, Merchant 2008).
- *hit Bill (x sloppy) (48) a. John said Mary hit him. Bill said she did too $\leq_{\rm VP} >$.
- say Mary hit Bill (\square) b. John said Mary hit him. Bill did too $\leq_{VP} >$.

Contrasts in DP-ellipsis in Basque

- AUX kritikatzen du. criticize (✓strict; x sloppy) Mirenek ere [e] t00 his head criticize AUX and Miren 'Jon criticizes himself, Miren criticizes [e], too.' eta (49) Jonek bere burua kritikatzen du, Jon
- (✓strict; ✓ sloppy) eta Mirenek ere. and Miren 'Jon criticizes himself, Miren does, too.' (50) Jonek bere burua kritikatzen du, AUX Jon his head criticize

(51) Jonek bere burua kritikatzen du, baina Mirenek [e] goraipatzen du. Jon his head criticize aux but Miren praise aux (✓strict; ✓sloppy) 'Jon criticizes himself, but Miren praises [e].'

■ A similar effect seems to hold in Japanese:

recommended (52) A: John-ga zibunzisin-o suisensita. John recommended himself.' John-nom self-acc

(Hoji 1998: 138)

recommended 'Bill also recommended [e].' Bill-mo [e] suisensita. Bill-also recommen В:

(Takahashi 2010) (✓strict; x sloppy) (\sqrict; \sqrippy) defended kabatta. Ken-wa [e] (53) Taroo-wa zibun-o semeta-ga, Ken-wa Taroo-rop self-Acc blamed-while Ken-rop

Lit. While Taroo blamed self, Ken defended [e].

3.6. CONCERNING THE CONTRASTS IN THE AVAILABILITY OF THE SLOPPY

■ Recall the contrast in the availability of the sloppy reading in Spanish

READING

(Oku 1998) aceptada]. Maria believes that her proposal will.be accepted que [su propuesta será (8) A:

Spanish

en cree que [[e] será aceptada]. believes that will.be accented Juan también cree Juan also

(✓strict; x sloppy) Lit. 'Juan also believes that [e] will be accepted.'

Spanish muy bien]. El primer año de tesis, [mi director me trató muy bien] the first year of thesis my director cl.1sg(DAT) treat.PST.3sg very well. The first year, my director treated me very well. (16) A:

(✓ strict; ✓ sloppy) NEG cl.1sg(DAT) make.PST.3sg NEG attention caso] Lit. 'Well, to me, [e] didn't pay attention.' hizo Pues, ¡[a mi [e] no me well to me .: В

■ Local binding of variables. I would like to suggest that local and non-local variable binding must be

• The possessive pronoun su 'his/her' in (8B) cannot be bound locally and hence it cannot be elided distinguished (cf. Kratzer 2009), and that only the former is relevant for Structural Parallelism (32b) via Structural Parallelism.

→ x sloppy reading

Su 'his/her' in (54B) is locally bound and satisfies Structural Parallelism.

→ sloppy reading

■ Prediction I: the presence of a local binder for the possessive pronoun in (8b) will make the sloppy reading available.

aceptada (a ella)] María cree que [su propuesta **le** será aceptada (a ella Maria believes that her proposal **cd.3sg**(ρν**r**) will.be accepted to her Lit. 'Maria believes that her proposal will be accepted to her.' María cree (54) A:

Lit. 'Juan also believes that [e] will be accepted to him.' (✓strict; ✓ sloppy) aceptada (a él)]. cl.3sg(par) will.be accepted to him dne [[e] **le** believes that Juan también cree Ë.

10

We can also observe a 'repair' effect via the ellipsis of a larger constituent:

- aceptada]. Maria believes that her proposal will.be accepted que [su propuesta será María cree (55) A:
- Juan también < >. <u>:</u>:

Juan also

(✓strict; ✓ sloppy) Lit. 'Juan too.'

- Prediction II: with a non-local binder, the sloppy reading will not be available for null objects.
- Basque AUX AUX-that think [zuzendariak bere proposamena irakurriko du-ela] uste Miren.erg director.erg her proposal.abs read.fut Mirenek (56) A:
- think AUX uste du. Jonek ere [zuzendariak [e] irakurriko du-ela] READ.FUT AUX-that Jon.erg also director.erg .: В

(✓strict; x sloppy) 'Lit. John also thinks that the director will read [e].'

- Under this analysis, the Japanese data in (6) is the unexpected one: the sloppy reading suggests that the ellipsis of a variable which is non-locally bound is allowed:
- (Oku 1998: 165) Japanese saiyo-sare-ru-to] omotteiru. Mary-top self-gen proposal-nom accept-pass-that think 'Lit. Mary thinks that self's proposal will be accepted.' Mary-wa [zibun-no teian-ga Ä 9
- John-mo [[e] saiyo-sare-ru-to] omotteiru. B:

accept-PASS-that John-also

(✓strict; ✓ sloppy) 'Lit. John also thinks that [e] will be accepted.' But this is precisely one of the crucial properties of the reflexive zibun: it can be bound at a distance:

(Kishida 2011: 162) John-TOP Bill-NOM self-ACC blame-PAST C say-PAST to] it-ta. John said that Bill blamed {himself /him}.' (57) John-wa [Bill-ga zibun-o seme-ta

Conclusions

- Adopting a reductionist approach to the phenomenon of null arguments (NAs) must be preferred over adopting a non-reductionist approach.
- Such an analysis is possible, by extending the ellipsis analysis to the whole pro-drop phenomenon.
- The basic distributional and interpretive properties of NAs can be straightforwardly accounted for in terms of Fox's condition on DP-Parallelism.

A different characterization of the phenomenon

- The DP-ellipsis analysis characterizes pro-drop as an epiphenomenon (cf. also Sigurdsson 2011).
- It suggests that NAs are a default option, and are universally available.

 non-null subject languages: 11,5% · null subject languages: 70% Dryer & Haspelmath (2011): (Sample: 711 languages)

· languages with an unclear status: 18,4%.

• In turn, this suggests that we must completely inverse our perspective on the issue: it is those cases in which

- ▶ Müller (2006, 2008), Duguine (2013): 'Poor agreement' in languages like German results from NAs are not licensed that must be accounted for, rather than those cases in which they are licensed.
 - morphological operations which happen to block the morphosyntactic licensing of null arguments.

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12