

The division of labor in Japanese clausal and predicate ellipsis

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Introduction

- Two related line of research on anaphoric/elliptical strategies in Japanese.
- **The distribution of VP ellipsis (VPE)**

- Null object constructions (Otani and Whitman 1991) do not decisively argue for VPE in Japanese (Hoji 1998; Oku 1998, i.a.).
- But there are new evidence from null adjunct constructions (Fujii 2015; Funakoshi 2016, 2019), among other cases.

- We further suggest that **VPE** specifically targets head-less VP.

- **The distribution of *soo*-replacement**

- Usually discussed in conjunction with *su(ru)* ‘do’ (Hinds 1973; Hoji 1990; Koizumi 1994, i.a.)
- But *soo* and *su(ru)* receive a compositional account (Tanaka 2016).
- Less attention is put on the syntactic restrictions of *soo*.

- We suggest that ***soo*** is specifically used to replace (overtly) headed VPs.

Introduction

- The empirical goal of this study is to establish the generalization in (1).

(1) a. **Soo-replacement** cannot target a head-less VP.

b. **VPE** cannot target an overtly headed VP.

→ **They are in complementary distribution in the VP domain.**

- On the theoretical side, we propose that

(2) a. *Soo* involves ellipsis (of its VP complement), i.e., we call it **soo-VPE**.

b. The “division of labor” follows from the fact that *soo* blocks verb movement from within its complement VP.

c. **Non-soo VPE** applies when *soo*-VPE is inapplicable.

→ **VPE takes two forms, whose choice is subject to a structural constraint related to head movement**

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Cases when VPE is preferred over *soo*

- In all the following three cases, we find that **VPE** is preferred over ***soo*** .
- ① Null adjunct constructions (Funakoshi 2016)
- ② *Te*-complement clauses (Hayashi and Fujii 2015)
- ③ VP in VV compounds (Funakoshi 2019)
- All these constructions are argued to involve head movement.

Case 1: Null adjunct constructions

- **Null object constructions** are taken to support VPE (Otani and Whitman 1991), but alternative analyses are offered (Oku 1998; Hoji 1998, i.a.).
- **Null adjunct constructions** are taken support to VPE (Funakoshi 2016).

(3) *Context: Taroo and Hanako washed their parents cars to get allowance. Taroo was thorough in his work while Hanako was not.*

a. Taroo-wa **teineini** kuruma-o arat-ta.
Taroo-TOP carefully car-ACC wash-PST
'Taroo washed the car carefully.'

b. Hanako-wa △ araw-anak-atta. Hanako-ga arat-ta ato-no
Hanako-TOP wash-NEG-PST Hanako-NOM wash-PST after-GEN
kuruma-wa kitanak-atta.
car-TOP dirty-PST
'Hanako did not wash the car carefully. The car that Hanako washed was dirty.'

Case 1: Null adjunct constructions

- Arguably, (3b) has the following underlying (simplified) structure, where the verb moves out of VP before VPE.

(4) Verb-stranding VPE ((Funakoshi 2016))

Hanako-wa [_{VP} ~~teincini kuruma o <araw_i>~~] araw_i-anak-atta.

- Importantly, the same VPE site cannot be replaced by *soo*

(5) Hanako-wa *soo araw-anak-atta.

Hanako-TOP wash-NEG-PST

‘Hanako did not wash the car carefully.’

- We obtain our first VPE-over-*soo* case.

Case 2: *Te*-complement clauses

- Hayashi and Fujii (2015) identify two types of ***te*-clauses**, which serve different grammatical functions.

(6) a. *te*-complements (also predicates like *kureru*, *hosii*)

Taroo-wa [Ziroo-ni piza-o tukut-**te**] morat-ta.

Taro-TOP Ziro-DAT pizza-ACC cook-TE get-PST

‘Taro had Ziro cook pizza.’

b. *te*-adjuncts

Taroo-ga [piza-o tukut-**te**] okane-o morat-ta.

Taro-NOM pizza-ACC cook-TE money-ACC get-PST

‘Taro got money by cooking pizza.’

- They argue that the former involve obligatory, cross-clausal verb movement into the matrix clause.
- (For discussions of *te*-adjuncts, see Appendix A.)

Case 2: *Te*-complement clauses

- Their proposed structure for *te*-complement clauses

(7) Obligatory verb movement from within a *te*-complement clause

Taroo-wa [Ziroo-ni piza-o ~~tukut-te~~_T] tukut-**te**_i-morat-ta.

- Only VPE can target the *te*-complement clauses, but not *soo*

(8) Ken-mo {^{OK} △ /* soo } tukut-te morat-ta.

Ken-also cook-TE get-PST

- Note that the suggested verb movement is obligatory. In its absence, both VPE and *soo* are disallowed

(9) Ken-mo { * △ /* soo } morat-ta.

Ken-also get-PST

Case 2: *Te*-complement clauses

- A similar example constructed with an adjunct in the *te*-complement.

- (10) a. Taroo-ga [enpitsu-de nigaoe-o ~~kai-te~~] kai-te morat-ta ga,
Taro-NOM pencil-with portrait-ACC draw-TE draw-TE get-PST but
‘Taro had his portrait drawn with a pencil, but’
- b. Hanako-wa {^{OK} Δ /* *soo* } kai-te morawa-nakat-ta
Hanako-TOP draw-TE get-NEG-PST
Int. ‘Hanako did not have her portrait drawn in pencil.’
(Hanako’s painting is drawn with a brush.)

- The availability of the adjunct reading supports VPE over Argument Ellipsis.
- We obtain our second VPE-over-*soo* case.

Case 3: VP in VV compounds

- Syntactic VV compounds involves V_1 - V_2 movement (Funakoshi 2019)

(11) Taroo-wa bataa-de tamanegi-o **itame-dasita**.

TARO-TOP butter-with onion-ACC fry-start

‘Taro started to fry onions in butter.’

- V_2 is bound morphemes and requires an adjacent verbal element
- This can be satisfied by moving V_1 up

(12) V_1 - V_2 movement

Taroo-wa [bataa-de tamanegi-o \langle itame \rangle_{V_1}] **itame** _{i} -dasi-ta.



Case 3: VP in VV compounds

- VEP can target the lower VP, in contrast with *soo*.

(13) Hanako-mo { Δ /* *soo* } itame-dasi-ta.
 Hanako-also fry-start-PST
 Lit. 'Hanako also started to do so.'

- Note: V-V movement is obligatory.

(14) Hanako-mo { * Δ /* *soo* } dasi-ta.
 Hanako-also start-PST
 Lit. 'Hanako also started to do so.'

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Cases when *soo* is preferred over VPE

- In contrast to Case 1-3, there are three cases where the opposite is observed: *soo* is preferred over VPE.
- ④ Resultative clauses and small clauses
- ⑤ Verbal nouns (Hayashi 2015)
- ⑥ Focus particles (Fujii 2015; Funakoshi 2019)
- These cases arguably do not involve verb movement.

Case 4: Resultative clauses and small clauses

- To the best of our knowledge, verb movement is not detected in resultative clauses and small clauses
- In this regard, we observe that *soo* can target **resultative clauses**, in contrast to **VPE**.

- (15) a. Taroo-wa kabe-o [yuki-no yooni siroku] nut-ta.
Taro-TOP wall-ACC snow-GEN like white paint-PST
‘Taro painted the wall white.’
- b. Ziroo-wa doa-o {soo /* Δ } nut-ta.
Ziro-TOP door-ACC paint-PST
Lit. ‘Ziro so painted the door.’

- In the absence of verb movement, *soo* is preferred over **VPE**.

Case 4: Resultative clauses and small clauses


- Exactly the same can be said to **small clauses**.

- (16) a. Taro-ni-wa tsuki-ga [**akaku**] mie-ta.
Taro-DAT-TOP MOON-NOM red look-PST
'The moon looked red to Taro.'
- b. watasi-ni-mo tsuki-ga { *soo* /* Δ } mie-ta.
I-DAT-TOP MOON-NOM look-PST
Lit. 'The moon looked so to me, too.'
- (17) a. Taroo-wa [**sizuka-ni**] nat-ta.
Taro-TOP quietly become-PST
'Taro became quiet.'
- b. Ziroo-mo { *soo* /* Δ } nat-ta.
Ziroo-also become-PST
Lit. 'Ziroo became so, too.'

Case 5: Verbal nouns

- In addition to to **Native Japanese Verbs** (NJVs), a class of verbs is derived from **Verbal Nouns** (VNs) by taking *suru* ‘do’
- Hayashi and Fujii (2015) and Hayashi (2015) argue that VNs differs from NJVs in that **VNs do not undergo V-T movement**, unlike NJV.

(18) Schematic representation of their proposal

- a. VN: Subject ... [VP Object VN] do
- b. VJN: Subject ... [VP Object $\leftarrow \text{NJV}_i \rightarrow$] NJV_i
- 

- In what follows, we compare VPs headed by these two verbs:
 - VN: *kikoku-suru* ‘return (to country)’
 - NJV: *kae-ru* ‘return’

Case 5: Verbal Nouns

- We observe that VPs headed by VN is compatible with *soo* but not VPE

(19) VPs headed by Verbal Nouns

- a. Taroo-wa [_{VP} hune-de nihon-ni **kikoku**] -si-ta.
Taro-TOP ship-by Japan-LOC return -do-PST
'Taro returned to Japan by ship.'
- b. Hanako-mo { *soo* /?? Δ } si-ta.
Hanako-also do-PST
'Hanako did so, too.'

- Soo* is preferred over VPE in the absence of verb movement

Case 5: Verbal Nouns

- VPs headed by NJVs show an opposite pattern, assuming V-T movement (**Hoshi:2009**; Funakoshi 2019).

(20) VPs headed by Native Japanese Verbs

a. Taroo-wa [_{VP} hune-de nihon-ni ~~kaet_i~~] **kaet_i**-ta.
Taro-TOP ship-by Japan-LOC return-PST

‘Taro returned to Japan by ship.’

b. Hanako-mo {**soo* / Δ } kaet-ta.
Hanako-also return-PST

Lit. ‘Hanako returned so, too.’

- Note that the movement is obligatory:

(21) *Taroo-wa [_{VP} hune-de nihon-ni **kaeri**] **si**-ta.
Taro-TOP ship-by Japan-LOC return do-PST

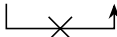
‘Taro returned to Japan by ship.’

Case 6: Focus particles on VPs

- **Focus particles** on VPs arguably block V-T movement, establishing an overtly headed VP (Fujii 2015; Funakoshi 2019)

(22) Schematic representation of this idea

Subject ... [_{VP} Object $\leftarrow \text{V} \rightarrow$] -*sae* V ...



- VPs associated with focus particles can be replaced by ***soo***

(23) a. Taroo-wa [_{VP} fugu-o sabaki]-**sae** si-ta. With focus particles
 Taro-TOP blowfish-ACC dress-even do-PST

‘Taro [_{VP} dressed a blowfish].’

b. Hanako-mo **soo** si-ta.
 Hanako-also do-PST

‘Hanako also did so.’

Case 6: Focus particles on VPs

- Consider also VPs without focus particles:

- (24) a. Taroo-wa [_{VP} fugu-o ←sabai_i→] sabai_i-ta. No focus particles
Taro-TOP blowfish-ACC dress-PST
‘Taro [_{VP} dressed a blowfish].’
- b. Hanako-mo **soo* / Δ sabai-ta.
Hanako-also dress-PST
‘Hanako also did [_{VP} dress a blowfish].’

- A complication: VPE is also allowed in this case

- (25) As continuation of (23a)
Hanako-mo Δ si-ta.
Hanako-also do-PST
‘Hanako also did.’

- Sakamoto (2021) argues that this is a case of Argument Ellipsis, not VPE.

Interim summary

	<i>soo</i>	VPE
1. Null adjunct constructions	✗	✓
2. <i>Te</i> -complement clauses	✗	✓
3. VP in VV compounds	✗	✓
4. Resultative clauses and small clauses	✓	✗
5. Verbal nouns	✓	✗
6. Focus particles on VPs	✓	✗ _{AE in disguise}

Table 1: The distribution of *soo* and VPE in Japanese

- In the above cases, we establish the following generalization:

- (1) a. ***Soo*-replacement** cannot target a head-less VP.
- b. **VPE** cannot target an overtly headed VP.

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Analysis

- Formally, the VPs that can(not) be targeted by *soo* and VPE are as follows

(26) The division of labor between *soo* and VPE in Japanese

- | | | | |
|----|---|-----|------------------------------------|
| a. | <i>soo</i> cannot target [VP ∇] | cf. | <i>soo</i> targets [VP V] |
| b. | VPE cannot target [VP V] | cf. | VPE targets [VP ∇] |

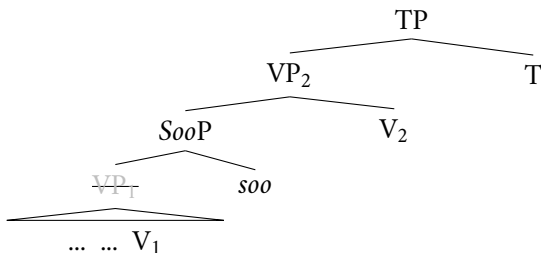
- Our proposal (evidence follows)

- (27) a. Assumption: *Soo* can be selected by a variety V heads, but not necessarily by *su-* ‘do’ (Tanaka 2016, *contra* Sakamoto 2020).
- b. ***Soo* takes a VP as its complement.** (cf. Sakamoto 2016)
- c. ***Soo*-replacement involves VPE on its complement VP.**
We call it *soo*-VPE, in contrast with non-*soo* VPE.

Analysis - why division of labor

- We propose the following structure for ***soo*-VPE**

(28)

(29) Deriving the division of labor

- Soo* blocks verb movement** from within its complement VP (in a way similar to focus particles, e.g. *-sae* 'even')
- VPE in Japanese can in principle apply to headed or head-less VPs, but the more marked ***soo*-VPE competes with non-*soo* VPE**

Analysis - ① *soo* involves VP ellipsis

- Evidence from overt A-extraction (passives) (Sakamoto 2020, modified)

- (30) a. **Akai nanika**₁-ga [VP dono heya-ni-mo t₁ ok]-are-ta-no-wa
 red sth-NOM every room-in-MO_∀ put-PASS-PST-NML-TOP
 ‘I knew that something red was put in every room, but ...’
 (some > all ; all > some)
- b. **Aoi nanika-ga** [_{SOOP} ~~VP~~ **soo**]-s-are-ta-no-wa sira-nakat-ta.
 blue sth-NOM SO-do-PASS-PST-NML-TOP know-NEG-PST
 (Lit.) ‘I didnt know that something blue was done so.’
 (some > all ; all > some)
- The argument ***Aoi nanika-ga*** is passivized and corresponds to the object from within the VP replaced by *soo*

Analysis - ① *soo* involves VP ellipsis

- A reinterpretation of Hoji (1990, p.13), given obligatory V-T movement

(31) John-ga [VP **kooriame-o** kamikudak]-u to, Bill-wa **kurumi-o**
 John-NOM ice.candy-ACC bite.crush when Bill-TOP walnut-ACC
 [SooP VP **soo**] sita.
 so did

(Lit.) ‘When John crunched an ice candy (into small pieces), Bill did so a walnut.’

- Note the contrastive reading is crucial

(32) ??... Bill-mo **kooriame-o** **soo** si-ta.
 ... Bill-also ice.candy-ACC do-PST
 (Lit.) ‘... Bill also did so an ice candy.’

Analysis - ① *soo* involves VP ellipsis

- Crucially, the extraction possibility is different in the apparent case of “VPE” (discussed in (25)).
- Namely, “VPE” of VPs with focus particles:

(33) a. Taroo-wa **Mary_{1/i}-o** [VP t₁ sikari]-**sae** si-ta.
 Taro-TOP Mary-ACC scold-even do-PST
 ‘Taro did Mary₁ even-[VP scold t₁].’

b. *Hanako-mo **kanozyo_i-o** [VP Δ] si-ta.
 Hanako-also she-ACC do-PST
 (Lit.) ‘Hanako also did her [VP Δ].’

- A-extraction from the ellipsis site is disallowed
- We agree with Sakamoto (2021) that (33b) should be analyzed as Argument Ellipsis, instead of VPE.

Analysis - ② *soo* takes VP complements

- We suggest that *soo* must take VP complements
- It cannot target **adverbials**, e.g., PP or AdvP (they are sub-clausal)

(34) a. Taroo-wa [{**basu-de/otooto-to**}] kaet-ta.
Taro-TOP base-bu/brother-with return-PST
‘Taro returned {by bus/with his brother}.’

b. Hanako-mo ***soo** kaet-ta.
Hanako-also return-PST
Lit. ‘Hanako returned so, too.’

(35) Taroo-ga [**hayaku**] hasit-ta. Ziroo-mo ***soo** hasit-ta.
Taro-NOM fast run-PST Ziroo-also run-PST
Lit. ‘Taro ran fast. Ziroo ran so, too.’ (so = fast)

(Tanaka 2016)

Analysis - ② *soo* takes VP complements

- Also, the complement of *soo* cannot be clausal adverbials, which are syntactically largely than a VP.

(36) a. Reason clauses

Taroo-wa [okane-o tame-ta-i **kara**] zisui-si-teiru.

Taro-TOP money-ACC save-want-PRES because self-cook-do-ASP

‘Taro cooks by himself because he wants to save money.’

b. Purpose clauses

Taroo-wa [okane-o tame-ru **tame-ni**] zisui-si-teiru.

Taro-TOP money-ACC save-INF sake-for self-cook-do-ASP

‘Taro cooks by himself to save money.’

c. Hanako-mo ***soo** zisui-si-teiru.

Hanako-also self-cook-do-ASP

Lit. ‘Hanako cooks by herself so, too.’

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Beyond the VP

- The division of labor between *soo* and VPE is restricted to VP
- *soo* behaves less consistently beyond the VP domain
 - there is another form of *soo* that serves as deep anaphora.
 - ① ^{OK}Non-VP antecedents
 - ② ^{OK}Non-linguistic antecedents
- Ellipsis of “larger” clauses can target headed (and head-less) phrases
 - there is no more competition with *soo*, hence its flexibility
 - ① Headed: TP ellipsis in **Sluicing** (Takahashi 1994)
 - ② Headed: TP/ModalP ellipsis in **Particle Stranding** (Sato and Maeda 2019)
 - ③ Head-less: FocusP/PolarityP ellipsis in **Verb Echo Answers** (Sato and Maeda 2021)

On *soo*: ① Antecedent clauses other than VPs

- *Soo*-replacement may have a non-VP antecedent

(37) A series of clauses (Hinds 1973, p.49-50)

Taroo-wa [hawai-ni tomodati-ni ai-ni it-te, nihon-ni
 Taro-TOP Hawaii-LOC friend-DAT meet-PURP go-TE Japan-DAT
 kaet-te ki-ta] ga, sono-maeni [kankoku-ni-mo yot-te
 return-TE come-PST but that-before Korea-LOC-also stop-TE
 ki-ta]; Ziroo-mo **soo** si-ta.
 come-PST Ziroo-also do-PST

‘Taro went to Hawaii to meet a friend and returned to Japan, but before return- ing he also stopped in Korea; Jiro did so too.’

On *soo*: ② Antecedent clauses other than VPs

- Also, *soo*-replacement is compatible with non-linguistic antecedents

(38) Non-linguistic antecedents

- yappari **soo** kuru ka.
as.I.expected so come SFP
'I knew it.'
 - [**Context:** Looking at a student writing down a correct answer of a math problem.]
Soo !
so
'That's right.'
- In these cases, *soo* behaves more similarly to deep anaphora.

On ellipsis: ① Clausal ellipsis in Sluicing

- Sluicing involves clausal ellipsis (Takahashi 1994, i.a.)

(39) Takahashi (1994, p.266, modified)

- a. Mary-ga nanika-o kat-ta rasii ga,
Mary-NOM something-ACC buy-PST likely but
'It is likely Mary bought something,'
- b. boku-wa [nani-o Δ ka] wakara-nai.
I-TOP what-ACC Q know-not
'but I don't know what.'

- Δ = headed

On ellipsis: ② Clausal ellipsis in Particle Stranding

- Particle stranding can strand *to* or *kadooka*, eliding their complement TP (also observed with *mitai*, *rashii*, and *nara*)

(40) Sato and Maeda (2019, p.362)

a. John-wa kita-no?

John-TOP came-Q

‘Did John come?’

b. Δ -**to** omoi-masu-kedo.

c think-POL-though

‘I think that he came.’

c. Δ -**kadooka-wa** tyotto wakari-masen-ne.

whether-TOP a bit know-POL.NEG-PRT

‘I am a little unsure whether he came or not.’

- Δ = headed

On ellipsis: ③ Clausal ellipsis in Verb Echo Answers

- Sato and Hayashi (2018) and Sato and Maeda (2021) argue that Verbal Echo Answers involve V-T-C movement, followed by TP ellipsis

(41) Sato and Maeda (2021)

a. Taroo-wa pan-dake kat-ta-no?
Taro-TOP bread-only buy-PST-Q
'Did Taro buy only bread?'

b. [~~TP ... <kaw-anaka-ta>~~] Kawa-nakat-ta-yo.
buy-NEG-PST-PRT
'Didn't buy.' (??only > Neg, Neg >only)

- △ = head-less

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Conclusions

- By examining six different cases, we established the following observation:

(42) The division of labor between *soo* and VPE in Japanese

- | | | | |
|----|---|-----|--|
| a. | <i>soo</i> cannot target [VP ∇] | cf. | <i>soo</i> targets [VP V] |
| b. | VPE cannot target [VP V] | cf. | VPE targets [VP ∇] |

- To account for the division of labor, we proposed:

- (43)
- Soo* takes a VP as its complement (Sakamoto 2016)
 - Soo*-replacement involves VPE on its complement VP.
 - VPE comes in two forms: ***Soo*-VPE** and non-*soo* VPE.
 - the former blocks verb movement from its VP complement
 - the latter applies when the former is inapplicable

Conclusions

Implications

- ① New evidence for **verb movement** in Japanese
→ The choice of VPE is sensitive to the availability of head movement
- ② Further support to **an elliptical account on *soo***
→ *soo* is sensitive to the internal structure of its antecedent VP
→ it also blocks verb movement from within its complement VP
- ③ Ellipsis strategy involves **lexical/syntactic competition**
→ The division of labor is restricted to VP, but not beyond
→ This can be attributed to the sectional property of *soo*, i.e., it selects VP but not higher clauses
- ④ **The typology of VPE**
→ The variety patterns of VPE across languages may be due to the availability of other elliptical options in that language

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Appendix A: *soo* and *te*-adjunct clauses

- *Te*-adjunct clauses arguably lack verb movement to the matrix clause.
- But they are not possible target of *soo*-replacement.

(44) a. Taroo-ga [mado-o wat-te] ie-ni haitta node,
 Taro-NOM window-ACC break-TE house-LOC entered since
 ‘Since Taro broke a window and entered the house,’

b. *Ziroo-mo soo ie-ni haitta.
 Taro-NOM so house-LOC entered
 Lit. ‘Ziro also entered the house so.’

(45) a. Taroo-wa [piano-o hii-te] utatta.
 Taro-TOP piano-ACC play-TE sang
 ‘Taro played the piano and sang.’

b. *Ziroo-mo soo utatta.
 Ziroo-also so sang
 Lit. ‘Ziro sang so too.’

Appendix A: *soo* and *te*-adjunct clauses

- This may be because these adjunct clauses are subject to “Law of Coordination of Likes” (Williams 1978; Haegeman 2012; Endo and Haegeman 2019).

- (46) a. Zi-roo-mo [VP **soo** yat-te] ie-ni hait-ta.
Taro-NOM so do-TE house-LOC enter-PST
Lit. ‘Ziro also entered the house so.’
- b. Zi-roo-mo [VP **soo** yat-te] utat-ta.
Ziro-also so do-TE sing-PST
Lit. ‘Ziro sang so too.’

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