

# Constructionalization of the Japanese addressee-honorification system

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## 1 Introduction

The addressee-honorific (AH) construction (or, *teinei-go*) grammatically encodes the relation between discourse participants and, therefore, has gained the attention of researchers working on the interplay between grammatical forms and pragmatics/ discourse-oriented meanings. Traditionally, researchers have investigated linguistic and sociolinguistic functions of AH markers as more or less a peculiarity to East Asian languages (i.e., Japanese and Korean). However, in the 2010s, comparable AH markings were “discovered” and subsequently examined extensively in genealogically-unrelated languages beyond Korean and Japanese — such as Punjabi (Kaur 2017; 2020), Tamil (McFadden 2020), Basque (Haddican 2018), Thai (McCready 2014), Burmese (Yamada 2019b), and Ryukyuan languages (Antonov 2015). Since then, researchers have begun to relativize the commonalities and differences in these AH markings in order to better understand how natural languages reflect and encode the speaker’s construal of the discourse relations.

With this background in mind, the current study zooms in on the peculiarity in the Japanese language. One important property of the Japanese AH construction that has not been observed in other languages is that the forms are category-dependent. First, as shown in (1), the AH meaning is realized as *-mas* when preceded by a verb, but in other cases, it is pronounced *des-* (n.b., NA and CA refer to a nominal adjective and a canonical adjective, respectively). Second, in early 20th century Japanese, the canonical adjective (or the *i*-adjective) was disallowed when *des-* was present; instead, the variant in (2) was recommended by prescriptive grammarians (Kawaguchi 2014; Yamada 2019b; Ogawa et al. 2020).<sup>1</sup>

- (1) The early 20th-century Japanese
- |                    |                   |                      |                        |
|--------------------|-------------------|----------------------|------------------------|
| a. VP              | b. NP             | c. NAP               | d. CAP                 |
| <i>tobi-mas-u.</i> | <i>inu des-u.</i> | <i>kanrei des-u.</i> | <i>*tumetai des-u.</i> |
| fly-AH-PRS         | dog COP.AH-PRS    | cold COP.AH-PRS      | cold AH-PRS            |
| ‘(I) fly.’         | ‘(It) is a dog.’  | ‘(It) is cold.’      | ‘(It) is cold.’        |
- (2) *tumetoo gozai-mas-u.*  
coldly exist.AHU-AH-PRS  
‘(It) is cold.’

However, the AH system underwent a major change in the 20th century, as seen in the contrast between (1) and (3), and what used to be an unacceptable sentence in (1)d became well-formed, as in (3)d.

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<sup>1</sup>The conflict between a canonical adjective and a copula is still observed with the plain form:

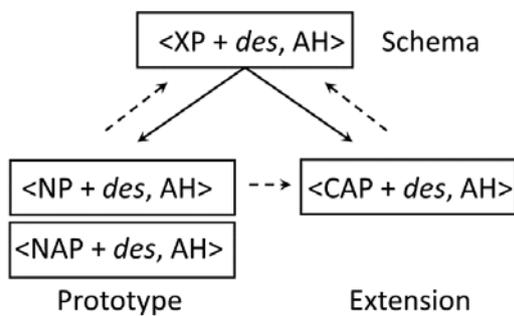
- (1) *\*tumetai da.*  
cold COP  
‘(It) is cold (intended).’

(3) The 21st-century Japanese

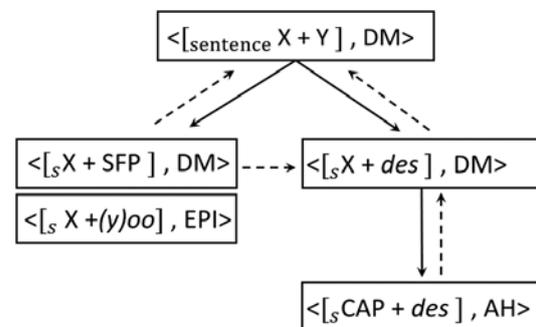
a. VP	b. NP	c. NAP	d. CAP
<i>tobi-mas-u.</i>	<i>inu des-u.</i>	<i>kanrei des-u.</i>	<i>tumetai des-u.</i>
fly-AH-PRS	dog COP.AH-PRS	cold COP.AH-PRS	cold AH-PRS
‘(I) fly.’	‘(It) is a dog.’	‘(It) is cold.’	‘(It) is cold.’

The contrast between (2) and (3)d is, thus, to be seen as an instance of diachronic constructional alternation. The chief goal of this corpus-driven study is to quantitatively examine the tendency in this constructional alternation and propose a model to demonstrate how the new construction (canonical adjective + *des-*) is sanctioned in this language. More specifically, instead of a naive direct extension model in (4)a, the hypothesis that constructions with sentence-final particles mediate the extension is empirically more adequate in modeling the change, as shown in (4)b, where X and Y are used to represent an unspecified category/slot and DM refers to a *discourse-oriented meaning*.

(4) a. **Hypothesis 1:** Direct extension from AH constructions



b. **Hypothesis 2:** Indirect extension mediated by SFE constructions



## 2 Previous literature

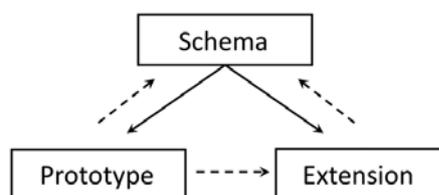
### 2.1 Constructionalist view of language change

In Construction Grammar, as well as in other domains of Cognitive Linguistics, the fundamental linguistic unit is identified as a construction, that is, a pair of form and meaning (i.e., sign; Langacker 2008 a.m.). Under this view, an AH construction is a pair of a certain grammatical pattern (form) and honorific allocutivity (meaning), so it is formally defined as follows (Yamada 2019b).

- (5) **The AH construction:** the form-meaning pair of  $\langle X \text{ (form)}, AH \text{ (meaning)} \rangle$ , where the form X is associated with the allocutive honorificity.

If a construction is a pairing of form and meaning, then a historical change of a construction is to be seen as a change in one of the poles in a sign (Traugott and Trousdale 2013: 1; Noël and Coleman 2021). Such changes do not take place in a haphazard manner without a (cognitive) motivation: our cognitive capacities, such as metaphor and metonymy as well as our encyclopedic knowledge, allow us to abstract a particular schema from prototypical uses, which then sanctions the establishment of a new form-meaning pair, as shown in (6) (Prototype Theory, Langacker 1987; 2008, a.m.).

(6)



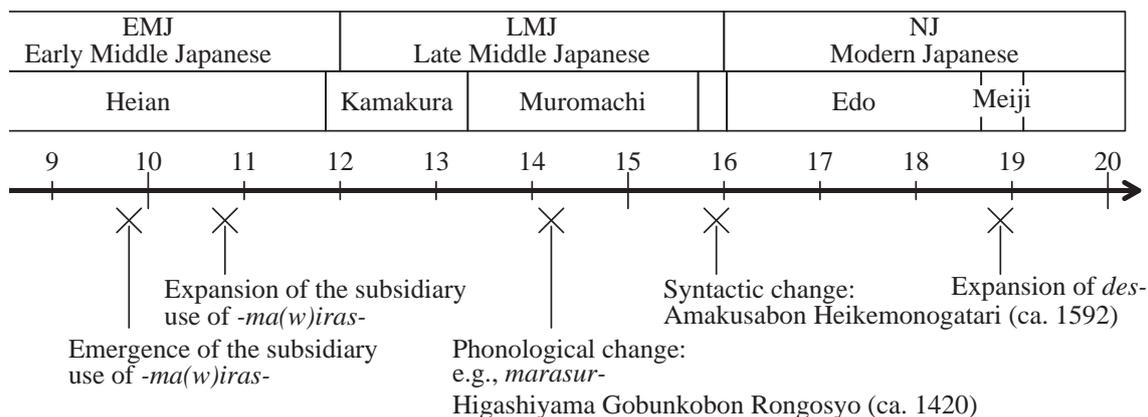


Figure 1: Historical development of addressee-honorific markers (Yamada 2019b: 163)

Hypothesis 1 (H1) in (4)a is, in fact, a simplistic extension of this model: the prototypes are the instances of *des-* with a noun phrase (NP) and a nominal adjective phrase (NAP), from which a schema is abstracted with the category of the preceding phrase unspecified. Having established such an acategorical phrase in the schema, *des-* is expected to be used with a canonical adjective phrase (CAP). While this may seem reasonable at first, this hypothesis runs into several empirical challenges, as discussed next.

## 2.2 The historical development of AH markers

Before we delve into a detailed examination of the development of CAP + *des-*, let us briefly look at the previous literature related to the historical change of the Japanese AH system (Figure 1; for a comprehensive overview, see Yamada 2019b: Chapter 2).

Of the two contemporary AH markers (*-mas* and *des-*), *-mas* has the longer history. The historical ancestor of this marker can be dated back to the EMJ *ma(w)iras-*, which is etymologically derived from a content-honorific marker (more specifically, the combination of object-honorific verb *ma(w)ir* ‘come.OH’ and *-as* ‘CAUS’); hence, it is treated as an instance of grammaticalization and intersubjectification (Ohori 2005). Pertinent to *des-*, what is known, at least, is that it became popular in the 19th century; however, its earlier uses are not clear. In the early 20th century, it was preceded only by a noun phrase or a nominal adjective phrase, but a canonical adjective phrase was unacceptable, as we see in (1). In addition to the change in question (the expansion of CAP + *des-*), *mas*-based past tense negation (*-mas-en desi-ta*) is being replaced by *des*-based past tense negation (*nak-at ta des-u*), and several corpus-based quantitative studies have been conducted to reveal the characteristics of this change (Tanomura 1994; Noda 2004; Ochiai 2012; Banno 2012; Yamada 2019a). However, with respect to the development of CAP+*des-*, no elaborate quantitative statistical approaches have been applied.

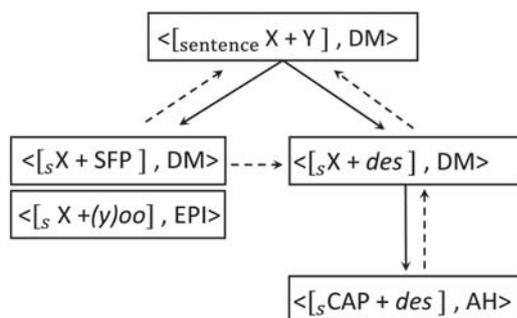
## 3 Analysis

Given the standard view of Diachronic Construction Grammar, one might wish to propose a direct extension hypothesis, as shown in (4)a, that assumes that the new construction node (canonical adjective + *des-*) has developed by being sanctioned by a schema established from the existing AH constructions (henceforth, H1). However, this section shows that despite the apparent plausibility, this line of text-book scenario encounters a number of empirical challenges, and thus, an alternative hypothesis (henceforth, H2) is proposed that the change is mediated by sentence-final particle constructions.





(17)



Although neither *-mas* nor *des-* appeared in sentence periphery in the early 20th century, it had a discourse-oriented meaning (i.e., conveying the speaker’s respect for the addressee). Thus, via analogical extension, the subschema of  $\langle [_{\text{sentence}} \dots X + des], DM \rangle$  is newly created. Since the slot X in (18) is unspecified, this can be replaced by CAP, yielding the construction node of  $\langle [_{\text{sentence}} \dots X + des], DM \rangle$ . The schema behind the extension is not the AH construction schema, but the schema of the DM construction.

Thinking this way, we can easily explain the aforementioned otherwise mysterious property of CAP + *des-*. First, it cannot be embedded because the properties of  $\langle [_{\text{sentence}} \dots X + Y], DM \rangle$  are inherited to the new construction: as shown below, the construction of  $\langle [_{\text{sentence}} \dots X + Y], DM \rangle$  is unembeddable.

- (18) a. *are-wa [ookiku-te] nagai-ne.*      b. \**are-wa [[ookii ne]-te] nagai-ne.*  
that-TOP big-te      long-SFP      that-TOP big      SFP-te long-SFP  
‘That is big and long, isn’t it?’      ‘That is big and long, isn’t it? (intended)’

Second, it is preceded by the past tense marker, simply because a sentence-final element is distributed after the tense marker. In this way, H2 can explain the empirical data that has created a problem for H1, and it is, therefore, superior to the naive direct extension model.

#### 4 Verifying the hypothesis: a corpus survey and the State-Space Model

If H2 is on the right track, we should be able to see clear diachronic evidence of sentence-final elements’ historical influence on the use of CAP + *des-*. In what follows, we show that this prediction is borne out; an elaborate statistical analysis of a historical corpus shows that the use of CAP + *des-* is facilitated by use of sentence-final elements.

##### 4.1 Data and statistical model

The previous literature roughly identified the change in the AH system as taking place during the early 20th century. For this reason, the Corpus of Historical Japanese (version 2021.3; last accessed Nov. 24, 2021), which consists of written data produced from the Nara period to around after the WWII.

The following queries are set to examine the diachronic constructional alternation between CAP + *gozai mas* (as in (2)) and CAP + *des-* (as in (3)d).

- (19) **Prescriptive form:** POS LIKE “Canonical Adjective%” AND FOLLOWING WORDS: LEXEME *gozar-* ON 1 WORDS FROM KEY AND FOLLOWING WORDS: LEXEME *-mas* ON 2 WORDS FROM KEY

- (20) **New form:**

- a. POS LIKE “Canonical Adjective%” AND FOLLOWING WORDS: LEXEME *des-* ON 1 WORDS

Variable	Type	Description
<b>Variant</b> $y_{ij}^{(t)}$	Outcome	Binary variable taking the value of 1 iff the $i$ -th sample at time $t$ with an adjective $j$ takes the CAP + <i>des</i> , and 0 iff it takes the CAP + <i>gozai mas</i> form.
<b>Textbook</b> $x_{1i}^{(t)}$	Fixed	Dummy variable taking the value of 1 iff the $i$ -th sample at time $t$ is taken from a textbook, and 0 otherwise.
<b>Literature</b> $x_{2i}^{(t)}$	Fixed	Dummy variable taking the value of 1 iff the $i$ -th sample at time $t$ is taken from the literature, and 0 otherwise.
<b>Sentence-final particle</b> $x_{3i}^{(t)}$	Fixed	Dummy variable taking the value of 1 iff the $i$ -th sample at time $t$ has a sentence-final particle, and 0 otherwise.
<b>Epistemic modal suffix</b> $x_{4i}^{(t)}$	Fixed	Dummy variable taking the value of 1 iff the $i$ -th sample at time $t$ has an epistemic modal suffix <i>-oo</i> , and 0 otherwise.
<b>Tense</b> $x_{5i}^{(t)}$	Fixed	Dummy variable taking the value of 1 iff the $i$ -th sample at time $t$ has a past tense marker, and 0 otherwise.
<b>Idiosyncrasies among canonical adjectives</b> $u_{0j}$	Random	The idiosyncrasy of the $j$ -th adjective, which is assumed to follow $N(0, \tau^2)$ .

Table 1: Variables in the model.

FROM KEY

b. POS LIKE “Canonical Adjective%” AND FOLLOWING WORDS: LEXEME *-ta* ON 1 WORDS FROM KEY AND FOLLOWING WORDS: LEXEME *des-* ON 2 WORDS FROM KEY

Since the *gozai mas* form is nowadays quite archaic and is no longer productively used, CAP + *des-* is expected to gradually outnumber the old variant over time. However, not only this global tendency, but also intra/extra-linguistic factors are expected to jointly affect the choice between the two in a probabilistic manner, just as the choice between ditransitive and dative constructions is simultaneously and probabilistically affected by multiple (socio)linguistic factors (Röthlisberger et al. 2017). To incorporate the chronological state change and multiple independent variables, this study conducts a Time Series Analysis, in particular, the State Space Model (Hagiwara 2021), by assuming the structure in (21) for the population with the variables in Table 1.

$$\begin{aligned}
(21) \text{ State-Space Model: } & y_{ij}^{(t)} \sim \text{Bern}(\pi_{ij}^{(t)}) \\
& \pi_{ij}^{(t)} \sim \text{logistic}(\eta_{ij}^{(t)}) \\
& \eta_{ij}^{(t)} = \beta_0^{(t)} + \beta_1 x_{1i}^{(t)} + \beta_2 x_{2i}^{(t)} + \beta_3 x_{3i}^{(t)} + \beta_4 x_{4i}^{(t)} + u_{0j} \\
& u_{0j} \sim N(0, \tau^2) \\
& \beta_0^{(t)} \sim N(\beta_0^{(t-1)}, \sigma_\zeta^2)
\end{aligned}$$

## 4.2 Results

The posterior distributions of the parameters in the model are estimated using a Hamiltonian Monte Carlo algorithm with Stan (Stan Development Team 2020) on R (Gelman et al. 2013; R Core Team 2020).

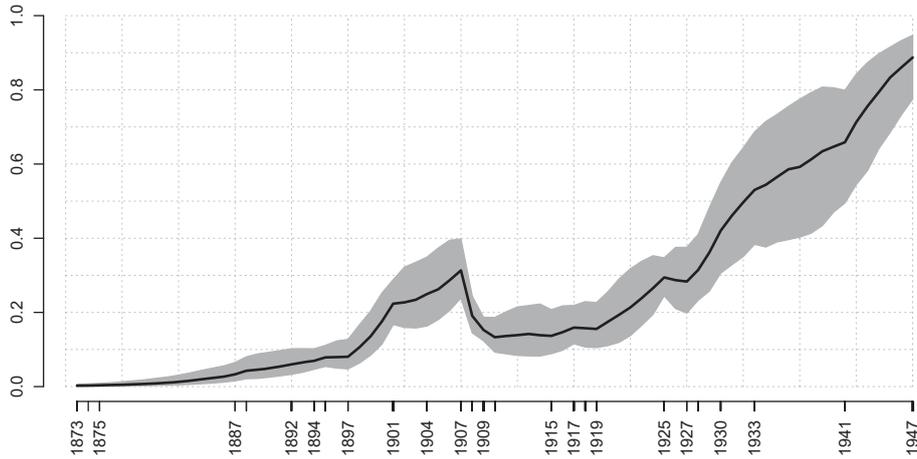


Figure 2: **Posterior inference on  $\{\pi^{(t)} : t \in \{1873, \dots, 1947\}\}$** : The posterior median of  $\pi^{(t)}$  (the solid line) and its 95% credible intervals (the shaded gray area) for each year.

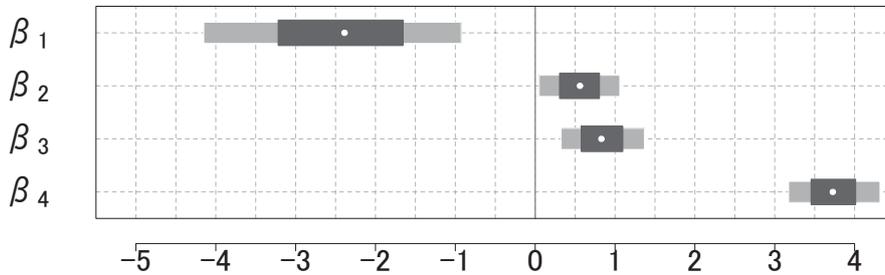


Figure 3: **Posterior inference on the coefficients**: The posterior medians of  $\beta$ 's (the white circle) and its 66% and 95% credible intervals (the dark and light gray areas).

First, the posterior distribution of  $\pi$  at time  $t$  is shown in Figure 2. Evidently, there is an increasing global trend, suggesting that the probability of taking the new construction (CAP + *des-*) is getting larger as time passes.

Second, in addition to this time effect, we can also detect the effects of (socio)linguistic factors. Figure 3 summarizes the posterior distributions of each coefficient. The first two are the genre effects ( $\beta_1$ : textbooks,  $\beta_2$ : novels), indicating that textbooks conservatively favor the old, recommended form, while novels seek to have the new construction. The other two variables are our main concerns, which both take a positive value, indicating that CAP+*des-* is favored when used with a sentence-final particle ( $\beta_3$ ) and an epistemic marker ( $\beta_4$ ). That these sentence-final elements make language users choose CAP+*des-* empirically corroborates our hypothesis (H2) that the establishment of the new construction is mediated and supported by these sentence-final elements.

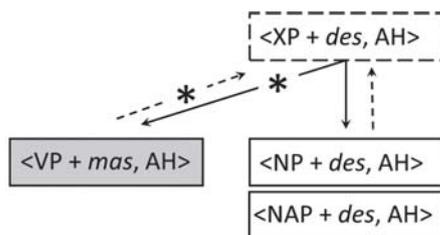
## 5 Discussion

If H2 is on the right track, we should ask why  $\langle \text{NP} + \textit{des}, \text{AH} \rangle$  and  $\langle \text{NAP} + \textit{des}, \text{AH} \rangle$  did not extend to create  $\langle \text{CAP} + \textit{des}, \text{AH} \rangle$ , or alternatively, what prevented these construction nodes from creating a schema that sanctions the new construction node.

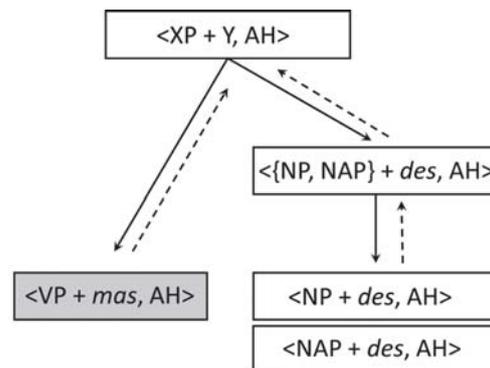
One possible answer worthy of our attention is the heterogeneity of AH constructions. As we saw in (1), the Japanese AH system employs two phonological exponents — *des-* and *-mas*. The presence

of *-mas* is likely to have prevented speakers in the early 20th century from creating a constructional schema  $\langle XP + des-, AH \rangle$ , because if they had done so, the construction schema should have licensed  $\langle VP + des-, AH \rangle$ , not  $\langle VP + -mas, AH \rangle$ , contrary to the fact. This is what is schematically shown in (22)a. If  $\langle VP + -mas, AH \rangle$  is a very marginal weight in the constructional network, the schema of  $\langle XP + des-, AH \rangle$  could probably be established; however, since many verbs can fill in the VP slot, this construction node has a very large token and type frequencies, so it is considered that this construction node has a very negative effect on creating the schema in (22)a. Hence, in order to avoid such an unwarranted result, they needed to create a less abstract schema at the intermediate level, as shown in (22)b.

(22) a.



b.



Still, in this constructional network in (22)b, neither  $\langle XP + Y, AH \rangle$  nor  $\langle \{NP, NAP\} + des-, AH \rangle$  is adequate for sanctioning  $\langle CAP + des, AH \rangle$ . First,  $\langle XP + Y, AH \rangle$  is too vague; we do not know what to have in the slot of Y. Second,  $\langle \{NP, NAP\} + des-, AH \rangle$  is too restricted; it only allows NP and NAP in the slot preceding *des*. The lack of  $\langle CAP + des, AH \rangle$  in the early 20th century is, therefore, attributed to a natural consequence of our categorization and schema-creation processes, and the effect of type/token frequencies in the constructional network. For this reason, a different schema (i.e.,  $\langle [_{\text{sentence}} \dots X + Y], DM \rangle$ ) was used as a catalyst in developing the construction of  $\langle CAP + des, AH \rangle$ .

## 6 Conclusion and future directions

The current paper has examined the development of the Japanese AH system, in particular, the emergence of  $\langle CAP + des, AH \rangle$ . While the proposal that the new AH construction node is sanctioned by the extant AH construction schema may seem plausible, this line of direct extension hypothesis (H1) has several empirical problems. As an alternative analysis, this paper proposes a hypothesis in which the new construction node is licensed by the construction schema of discourse-oriented, sentence-final elements. Thus, the sentence-final properties of  $\langle CAP + des, AH \rangle$  are clearly explained. The historical influences of such sentence-final elements are, in fact, quantitatively supported by the corpus analysis with an elaborate statistical analysis (the Generalized Mixed-Effects Time Series Analysis), and the reason why  $\langle CAP + des, AH \rangle$  does not evolve from the AH construction schema is argued to be attributable to the heterogeneity of AH constructions?

The findings and discussions in this paper can be extended in several future directions. First, this case study is seen as an attempt to study the interaction within the constructional network, preventing and allowing constructionalization. Certainly, the prototype and schema theory is useful in explaining why extensions have happened in the past, but the arguments suggesting factors preventing language change that would be likely to happen are lacking. In this paper, however, the view is presented that the heterogeneity within a constructional network has a negative effect for a schema to be abstracted. Future research is expected to be carried out to determine the extent to which this prevention is commonly

observed in other constructional networks.

Second, as previously mentioned, the AH markings in Korean and Thai are distributed in sentence periphery, so the change in question has made Japanese akin to these languages. Nonetheless, a few more languages have been known to encode AH meanings in non-sentence-peripheral regions (e.g., *Basque*, Haddican 2018; *Magahi*, Alok 2021; *Burmese*, Yamada 2019b). Among these, AH markers in non-contemporary Japanese — such as *tamap-*, *saburaw*, and *paber* — deserve our attention. For example, *saburaw-* is known to be used, firstly, as a verb (that is, in a mid-sentence region), but it is later distributed in sentence periphery. Whether the direction of historical development is put forth by the same extension in constructional network needs to be extensively discussed.

Third, this paper elucidates how elaborate Time Series analysis reveal a language shift that would otherwise be quite difficult to discern. In most cases, in historical studies, much simpler models have been employed, such as Chi-square analysis. However, the shortcomings of Chi-square analysis in historical language studies have been pointed out in the literature (Yamada 2022). Utilization of Generalized Mixed-Effects Time Series Analysis is also expected to be useful in other historical language research.

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<要旨>

## 日本語丁寧語(聞き手敬語)体系の構文化

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本研究は、日本語における丁寧語(聞き手敬語)の体系の通時的变化、とりわけ、イ形容詞とともに用いられる「です」の用法の台頭を、定量的データを用いながら、通時的構文文法の枠組みから論じたものである。「イ形容詞+です」という構文が次第に容認されるようになったのは、一見すると「名詞+です」や「ナ形容詞+です」といった他の「です」を用いた敬語構文からの構文拡張が生じたためだという仮説(仮説1)が成り立ちそうではある。しかし本稿では、この仮説1の下では、多くの経験的なデータが説明できないことを示し、これを退ける。代わりに、この構文拡張は文末要素構文スキーマというものを介して進展したのだという仮説(仮説2)を提案する。すなわち、終助詞や認識的モーダルが文末に生起し談話機能を表す構文スキーマがまず存在し、同じく対他的意味を持つ「です」がこの構文スキーマに認可される形で、文末語としての「です」が生じ、結果として「イ形容詞+です」という構文が登場するに至ったという歴史的变化を想定する。この仮説2が正しければ、コーパスの中でも、文末語の生起が「イ形容詞+です」という構文の成立に影響を与えたことを示す明確なパターンが見られるはずであり、実際、コーパスデータに状態空間モデル(State-Space Model)を用いた一般化混合効果時系列分析(Generalized Mixed-Effects Times Series Model)の解析結果からこの予測が経験的に支持されることが示される。仮説1通りの「教科書的」な変化が生じなかった原因には丁寧語に「です」だけでなく「ます」も存在しているという聞き手敬語の不均質性が構文スキーマの立ち上げを阻害した可能性を指摘する。

**キーワード**：通時的構文文法 ( Diachronic Construction Grammar ) ・ プロトタイプ理論 ( Prototype Theory ) ・ 構文ネットワーク ( Constructional Network ) ・ 敬意アロキュティビティ ( Honorific Allocutivity ) ・ 一般化混合効果時系列分析 ( Generalized Mixed-Effects Time Series Analysis )

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