

1. Negative questions (Neg-Qs)

It is widely assumed that Neg-Qs can convey **speaker bias**.

(1) Original speaker bias (for a proposition p)

Belief or expectation of the speaker that p is true, based on her epistemic state prior to the current situational context. (cf., Ladd 1981: 66)

For instance, in English (*inter alia*, Goodhue 2022):

- (2) a. Was it **not** raining? [Low Neg-Q, LNQ]
b. Wasn't it raining? [High Neg-Q, HNQ; bias for p]

Korean has two morphological negations. In polar questions, the two negation markers can deliver **different readings** (Kim 2016; Yang and Park 2024):

- (3) a. **Short Form (SF) Neg-Q *an***: Unbiased
pi-ka **an** o-ni?
rain-NOM SF.NEG come-QUE
'Is it **not** raining?'
b. **Long Form (LF) Neg-Q (-ci) *anh***: Ambiguous
pi-ka o-ci **anh**-ni?
rain-NOM come-CONN LF.NEG-QUE
'Isn't it raining? / Is it **not** raining?'

This study investigates the **discourse-sensitive behavior** of Neg-Qs in Korean, drawing on insights from Farkas and Bruce (2010), among others.

2. Key properties

When the **past tense marker -ass/-ess** is added, the SF.Neg *an* must precede the tense marker (SF.Neg-Q), but the LF.Neg *anh*- may appear before (Pre-T-LF.Neg-Q) or after (Post-T-LF.Neg-Q) the tense marker:

- (4) a. pi-ka **an** o-ass-ni? [SF.Neg-Q]
rain-NOM SF.NEG come-PST-QUE
'Was it not raining?'
b. pi-ka o-ci **anh-ass**-ni? [Pre-T-LF.Neg-Q]
rain-NOM come-CONN LF.NEG-PST-QUE
'Was it not raining?/Wasn't it raining?'
c. pi-ka o-ass-ci **anh**-ni? [Post-T-LF.Neg-Q]
rain-NOM come-PST-CONN LF.NEG-QUE
'Wasn't it raining?'

While **Post-T-LF.Neg-Qs** cannot license an NPI at all, **Pre-T-LF.Neg-Qs** can—but only in unbiased readings.

- (5) a. *amwuto* o-ci **anh-ass**-ni? [Pre-T-LF.Neg-Q]
anybody.NOM come-CONN LF.NEG-PST-QUE
Int. 'Did nobody come? / *Didn't nobody come?'
b. **amwuto* o-ass-ci **anh**-ni? [Post-T-LF.Neg-Q]
anybody.NOM come-PST-CONN LF.NEG-QUE
Int. 'Didn't nobody come?'

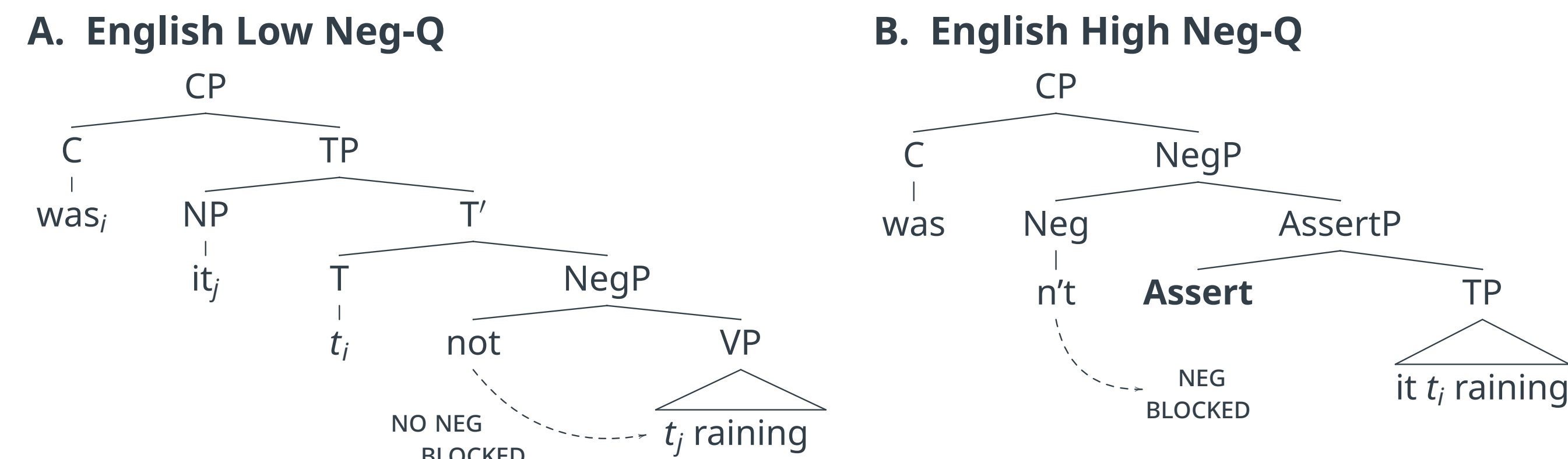
Pre-T-LF.Neg-Q has a conjugated variant *-cahn-*, which incorporates the connective marker *-ci* and the LF.Neg; it induces only a **biased interpretation**.

- (6) John-i/**amwuto* hakkyo-ey o-ass-cahn-a?
John-NOM/anybody.NOM school-to come-PST-CONN-LF.NEG-QUE
'Doesn't John/*nobody come to school?'

3. Previous analyses

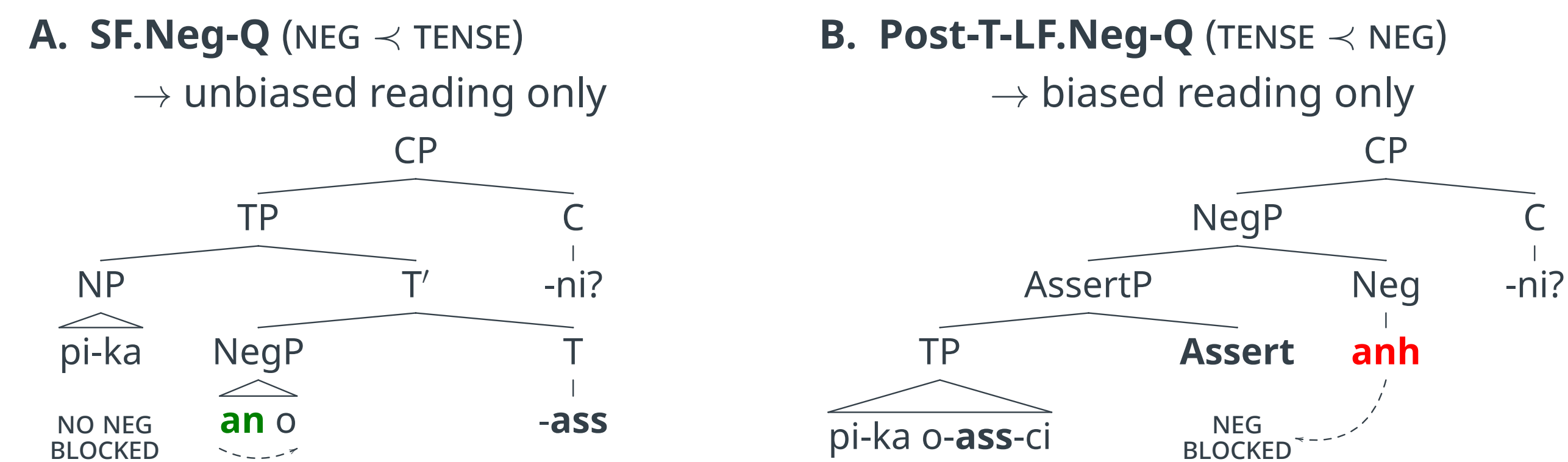
Goodhue (2022) argues that it is **syntax alone** that determines the reading of English Neg-Qs.

Figure 1: Structure of English Low and High Neg-Qs (Goodhue 2022)



Yang and Park (2024), following Goodhue (2022), argue that **Post-T-LF.Neg-Qs** contain AssertP, triggering bias (Fig 2B), while **SF.Neg-Qs** do not (Fig 2A).

Figure 2: Structure of Korean Neg-Qs by Yang and Park (2024)



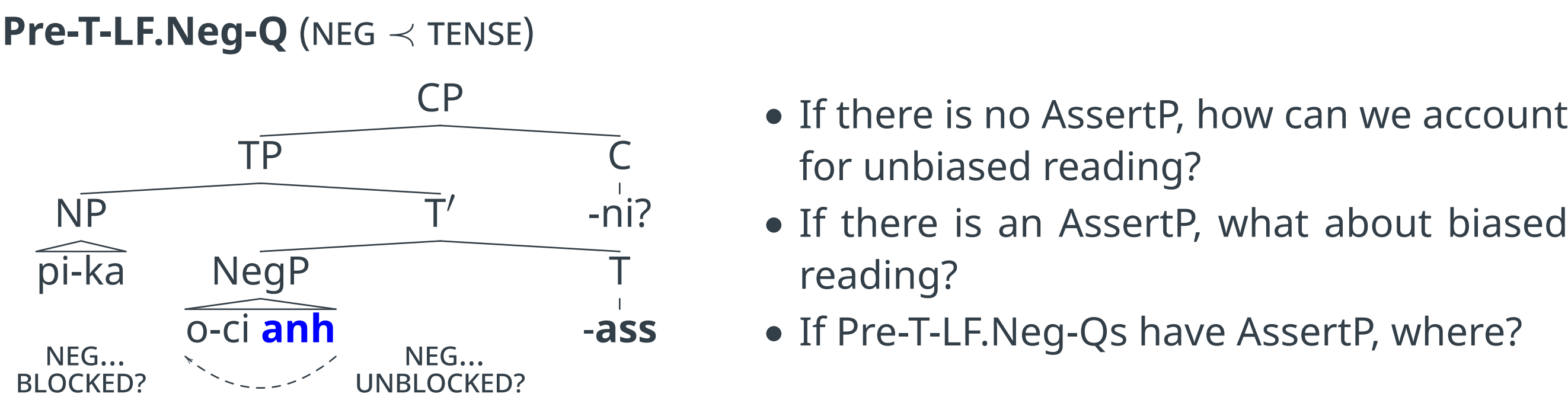
4. Discussion

4.1. Syntax-only?

This syntax-only account faces challenges: the ambiguity of **Pre-T-LF.Neg-Qs**.

- Experimental evidence by Kim et al. (2024) shows that **Pre-T-LF.Neg-Qs** can convey bias. ⇒ AssertP ✓
- Pre-T-LF.Neg-Qs**, with **no bias**, can license an **NPI** (cf., (5)). ⇒ AssertP ✗

Figure 3: Structure of Korean Pre-T-LF.Neg-Q?



4.2. Context sensitivity

Neg-Qs are sensitive to **contextual evidence** as well (Romero 2024: 283):

- (7) A: Where do you want to go for dinner? [neutral evidence on p]
B₁: #Is there **no** vegetarian restaurant around here?
B₂: Isn't there a vegetarian restaurant around here?
B₃: ce cip pipimpap {(#)**an** phal-a? / phal-ci **anh**-a}?
that place Bibimbap SF.NEG sell-QUE / sell-CONN LF.NEG
'{#Does that place **not** / Doesn't that place} serve Bibimbap?'
(8) A: Since you guys are vegetarian, we can't go out in this town, where it's all meat and potatoes. [evidence against p]
B₁: Is there **no** vegetarian restaurant around here?
B₂: Isn't there a vegetarian restaurant around here?
B₃: ce cip pipimpap {**an** phal-a? / phal-ci **anh**-a}?

4.3. Tense marker and negation in LF.Neg-Qs

This study claims an LF.Neg precedes the tense marker *iff* (i) the original speaker is **biased** and (ii) knows that the interlocutors **share the truth-value**:

- (9) [Context 1] Last summer, A and B traveled to Japan **together**.

[Context 2] Last summer, **only B** traveled to Japan.

A: caknyen ilpon, emcheng tew-ess-ci **anh**-a?
last.year Japan really hot-PST-CONN LF.NEG-QUE
Int. 'Wasn't it really hot in Japan last year?' [Context 1 ✓; 2 ✗]

A: caknyen ilpon, emcheng tep-ci **anh-ass**-e?
last.year Japan really hot-CONN LF.NEG-PST-QUE
Int. 'Wasn't it really hot in Japan last year?' [Context 1 ✓; 2 ✓]

Unlike **Pre-T-LF.Neg-Qs**, **Post-T-LF.Neg-Qs** require the prejacent's truth-value to be shared among interlocutors (i.e., CG; cf., Farkas and Bruce 2010).

5. A discourse-based approach

To provide a formal analysis with a focus on discourse, this study adopts the key concepts from **the Table model** (Farkas and Bruce 2010).

- (10) A: Is Sam home? (s_1) B: No, he isn't. (s_2)

A	Table	B
	'Sam is home' [Interr.]; $\{p, \neg p\}$ 'No, he isn't' [Decl.]; $\{\neg p\}$	$\neg p$
Common Ground (CG)	$s_2 = s_1$	Projected Set (PS): $ps_2 = \{s_1 \cup \{\neg p\}\}$

This study argues the following:

- Korean biased Neg-Qs denote a singleton set $\{p\}$ with the surface polarity reversed (cf., Rudin 2024).
- Context-sensitivity can be captured on the Table; preceding utterance of Neg-Qs (i.e., s_1) determines the licenseability (cf., (7) - (9)).
- If Common Ground (CG) contains the bias of Neg-Qs (i.e., $\{p\} \subset CG$), the question can be realized as a **Post-T-LF.Neg-Q**; otherwise, only **Pre-T-LF.Neg-Qs** are available (cf., (9)).
- The form-meaning mismatch, without requiring a functional phrase or hidden structure, can be accounted for within the Construction Grammar framework (i.a., Ginzburg and Sag 2000; Goldberg 2006; Kim 2016).

6. Theoretical implication

By applying the key notions from the discourse-based framework, we can capture the complex linguistic pattern of Korean Neg-Qs in a streamlined manner.

Selected References

- Farkas, Donka F. and Kim B. Bruce. 2010. On reacting to assertions and polar questions. *Journal of Semantics* 27: 81–118.
Ginzburg, Jonathan and Ivan Sag. 2000. *Interrogative investigations*. Stanford: CSLI publications.
Goldberg, Adele E. 2006. *Constructions at work: The nature of generalization in language*. Oxford: Oxford University Press.
Goodhue, Daniel. 2022. Isn't there more than one way to bias a polar question? *Natural Language Semantics* 30: 379–413.
Kim, Jong-Bok. 2016. *The Syntactic Structure of Korean: A Construction Grammar Perspective*. Cambridge: Cambridge University Press.
Kim, Jong-Bok, Jungsoo Kim and Yunju Nam. 2024. Variations in answering negative polar questions in Korean: An experimental study. *Lingua* 310: 1–24.
Ladd, Robert D. 1981. A first look at the semantics and pragmatics of negative questions and tag questions. In Robert A. Hendrick, Carrie S. Masek and Mary Frances Miller (eds.), *Papers from the seventeenth regional meeting of the Chicago linguistic society*, 164–171.
Romero, Maribel. 2024. Biased polar questions. *The Annual Review of Linguistics* 10: 279–302.
Romero, Maribel and Chung-Hye Han. 2004. On negative yes/no questions. *Linguistics and Philosophy* 27: 609–658.
Rudin, Deniz. 2024. Question bias as the pragmatics of context update. Unpublished manuscript.
Yang, Heesun and Bum-Sik Park. 2024. The syntax and semantics of the High Negation Question in Korean. In Xiangyu Li, Zetao Xu, Yuqiao Du, Zhuo Chen, Chenghao Hu, Zhongyang Yu and Victor Junnan Pan (eds.), *Proceedings of Generative Linguistics in the Old World in Asia XIV*, 358–365.