

Islands for wh-extraction and wh-in-situ are backgrounded in Singlish

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Intro: Long-distance dependencies (LDDs) like wh-questions are not allowed to cross certain constructions, labelled syntactic islands. For instance, the wh-phrase cannot be extracted out of a *whether* clause in (1b) or stay in-situ in the wh-island in (1c) in Colloquial Singapore English (Singlish). The *Backgrounded Constructions are Islands* constraint (BCI) attributes island effects to a clash in discourse properties (Goldberg, 2013; Cuneo and Goldberg, 2023). According to BCI, material within an island construction is backgrounded and wh-phrases in LDDs must be prominent, thus the penalty in acceptability of LLD across a construction is sensitive to the extent to which that construction is backgrounded. Cuneo and Goldberg (2023) recently found that the BCI constraint applies to wh-extraction out of Complex NP and adjunct islands. The effects of BCI in wh-in-situ questions have not been tested. In two experiments which investigate the BCI constraint with Singlish wh-movement and wh-in-situ, we replicate Cuneo and Goldberg (2023)'s findings for Complex NP islands and adjunct islands, extend the BCI account to wh-islands, and provide novel evidence that the island effects of wh-in-situ can be accounted for by the BCI constraint.

Experiments: We tested acceptability of Complex NP island (CNPC), adjunct island, and wh-island. Each island type had a 2×3 design with two factors STRUCTURE (Main, Island) and BASEORLDD (Base, Move, Situ), shown in (2) to (4). 47 native Singlish speakers rated their acceptability on a 7-point Likert scale. In a separate experiment, backgroundedness of the island constructions was tested using the negation task in (5) (Namboodiripad et al., 2022; Ambridge and Goldberg, 2008). We presented a negated version of the BASE sentences and asked if the proposition denoted by the island construction was negated or not. The more backgrounded a construction is, the less affected it is by the negation in the main clause. 43 participants completed the negation task using a 5-point scale.

Results: For each island type, the six conditions were arranged into two 2×2 comparisons (wh-movement: Base vs Move | Main vs. Island, wh-in-situ: Base vs Situ | Main vs. Island). Raw responses and mean negation scores are plotted in Figure 1. For wh-movement, backgroundedness predicts the acceptability of Move conditions more than Base conditions. All three island types observe a significant interaction of Backgroundedness (negation mean) and BaseorLDD (CNPC: $\beta=0.73$, $z=6.01$, $p<0.001$; Adjunct: $\beta=1.15$, $z=7.89$, $p<0.001$; Wh-island: $\beta=3.07$, $z=3.66$, $p<0.001$). For the wh-in-situ comparisons, backgroundedness also predicts the acceptability of Situ conditions more than Base conditions for CNPC and wh-islands, and to a smaller extent in adjunct islands. The interaction of Backgroundedness and BaseorLDD is significant for all three island types as well (CNPC: $\beta=0.85$, $z=6.75$, $p<0.001$; Adjunct: $\beta=0.33$, $z=2.33$, $p=0.02$; Wh-island: $\beta=3.42$, $z=3.92$, $p<0.001$).

Implications: Like Cuneo and Goldberg (2023), our experiments show that backgroundedness, operationalised here as the degree that a construction is opaque to negation, inversely correlates with acceptability ratings when a constituent within the island is queried, in line with the BCI constraint. We extended the scope of BCI to wh-movement out of CNPC, adjunct islands, and wh-islands in Singlish, as well as wh-in situ for the three island types. While the correlation between backgroundedness and acceptability of island violations poses a challenge to syntactic/semantic approaches to island effects, our experiments also reveal a puzzle. Note that the red Move and Situ lines for CNPC and wh-islands in Figure 1 are parallel, suggesting that backgroundedness similarly affects wh-extraction and wh-in-situ for CNPC and wh-islands. This is not the case for adjunct islands, in which backgroundedness clearly shows an inverse correlation with acceptability for wh-extraction but not wh-in-situ. In other words, acceptability of wh-in-situ questions with adjunct islands is correlated less with backgroundedness of the construction, compared to wh-movement, contrary to the prediction.

- (1) a. The director want to know whether Sean organise the event. (base sentence)
b. *What the director want to know whether Sean organise ah? (wh-movement)
c. *The director want to know whether Sean organise what ah? (wh-in situ)
‘*What did the director want to know whether Sean organised?’
(Singlish allows optional tense morphology and *ah* is a question marker.)
- (2) a. The girl who like history recommend a biography. Main | Base
b. What the girl who like history recommend ah? Main | Move
c. The girl who like history recommend what ah? Main | Situ
d. The girl who recommend a biography like history. CNPC | Base
e. What the girl who recommend like history ah? CNPC | Move
f. The girl who recommend what like history ah? CNPC | Situ
- (3) a. Wei Han analyse data after replying the email. Main | Base
b. What Wei Han analyse after replying the email ah? Main | Move
c. Wei Han analyse what after replying the email ah? Main | Situ
d. Wei Han reply the email before analysing data. Adjunct | Base
e. What Wei Han reply the email before analysing ah? Adjunct | Move
f. Wei Han reply the email before analysing what ah? Adjunct | Situ
- (4) a. The tutor say that Shao Min solve the issue. Main | Base
b. What the tutor say that Shao Min solve ah? Main | Move
c. The tutor say that Shao Min solve what ah? Main | Situ
d. The tutor want to know whether Shao Min solve the issue. Wh | Base
e. What the tutor want to know whether Shao Min solve ah? Wh | Move
f. The tutor want to know whether Shao Min solve what ah? Wh | Situ
- (5) sample negation task for wh-island (Singlish *didn't* may be further contracted to *din*.)
a. The tutor din say that Shao Min solve the issue. (Base | main)
‘Did Shao Min solve the issue?’
Options: No, Probably Not, Can't Tell, Probably, Yes
b. The tutor din want to know whether Shao Min solve the issue. (Base | whether)
‘Did Shao Min solve the issue?’
Options: No, Probably Not, Can't Tell, Probably, Yes

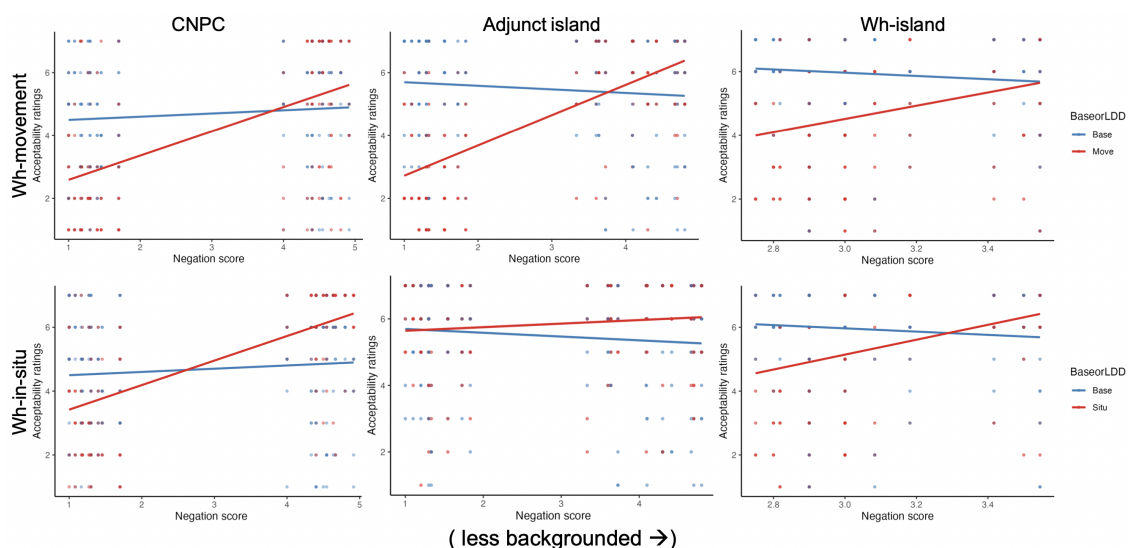


Figure 1