Negative Polarity Items (NPIs) in Heritage Korean

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Introduction

Negative Polarity Items (NPIs): anyone and anywhere canonically occur in negative contexts

- (1) a. John doesn't like anyone. b. John didn't go anywhere.
- (2) a. Chelswu-nun amwuto coha-ha-ci an-h-nun-ta C-TOP anyone like-do-Cl NEG-do-PRS-DEC 'Chelswu does not like anyone.'
 - b. Chelswu-nun amwuteto ka-ci an-h-ass-ta C-TOP anywhere go-Cl NEG-do-PST-DEC 'Chelswu did not go anywhere.'

Introduction

The present study:

- The acquisition and the syntax of Negative Polarity Items (NPIs) by adult heritage Korean speakers in the USA.
- The current study investigates whether and how much Korean NPI properties are maintained and/or they are affected by English NPI properties.

Heritage Language Acquisition and Grammar

- Formal approaches to heritage language acquisition and grammar have been a growing body of research (Montrul 2008, 2010, 2011; Polinsky 2008, 2011; Polinsky and Kagan 2007; O'Grady et al. 2001, 2011).
- Heritage Korean acquisition and grammar have been studied with respect to morphology (Choi 2003), binding (Kim 2007; Kim et al. 2009), and relative clauses (O'Grady et al. 2001; Kim 2005; Lee-Ellis 2011), among others.

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Agenda of the Talk

- Local Object NPI Licensing: English-Korean Shared Property
- Local Subject NPI Licensing: Korean-specific Property
- Non-local Object NPI Licensing: English-specific Property

 (ungrammatical in Korean)

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Basic Properties of Korean

Korean is a head-final case-marking language.

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(3) a. Chelswu-ka ppang-ul mek-ess-ta.

C-NOM bread-ACC eat-PST-DEC

'Chelswu ate the bread.'

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b. na-nun [Chelswu-ka ppang-ul mek-ess-ta-ko] sayngkak-ha-n-ta.

I-TOP C-NOM bread-ACC eat-PST-DEC-COMP think-do-PRS-DEC

'I think that Chelswu ate the bread.'

Negative Polarity Items (NPIs)

Negative polarity items (NPIs) are licensed by local negation.

- (4) a. John did not meet anyone.
 - b. *John met anyone.

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Local Object NPI Licensing: Shared Property

NPIs in Korean are licensed by local negation.

- (5) a. Chelswu-ka amwuto manna-ci an-h-ass-ta.
 C-NOM anyone meet-cı NEG-do-PST-DEC
 'Chelswu did *not* meet *anyone*.'
 - b. *Chelswu-ka amwuto manna-ss-ta . C-NOM anyone meet-PST-DEC '*Chelswu met *anyone*.'

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Non-local Object NPI Licensing: English-specific Property

Embedded English object NPIs are also licensed by matrix negation.

(6) I do not believe [that John hit anyone].

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Non-local Object NPI Licensing: English-specific Property

Unlike English, object NPIs in Korean cannot be licensed by matrix negation.

(7) ?*na-nun [Chelswu-ka amwuto ttayl-yess-ta-ko]

I-TOP C-NOM anyone hit-PST-DEC-COMP

mit-ci an-h-nun-ta.

believe-ci NEG-do-PRS-DEC

'I do not believe that Chelswu hit anyone.'

• Object NPIs in Korean need local licensing.

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Local Subject NPI Licensing: Korean-specific Property

In English, NPIs cannot occur in the matrix subject position because they are not c-commanded by negation.

(8) *Anyone does not love John.

Unlike English, Korean allows a subject NPI to occur in the matrix clause.

(9) amwuto Chelswu-lul salang-ha-ci an-h-nun-ta. anyone C-ACC love-do-cı NEG-do-PRS-DEC (Intended) 'Nobody loves Chelswu.' (Lit.) '*Anyone does not love Chelswu.'

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To Sum up

NPI Properties in Korean and English

	Korean	English	
Negation	*		
Local Object NPI Licensing	✓	√	
Local Subject NPI Licensing	~	*	
Non-local Object NPI Licensing	*	√	

Research Questions

- Do heritage Korean speakers maintain the shared properties of NPI licensing in Korean and English (e.g., local object NPI licensing)?
- Do heritage Korean speakers maintain Korean-specific properties of NPI licensing in Korean (e.g., local subject NPI licensing)?
- Do heritage Korean speakers show transfer effects from English (e.g., non-local object NPI licensing)?

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Participants

Heritage Korean Speakers (HK)
 (N=50; adult college students and college graduates in California)

 Proficiency Levels: Intermediate or Advanced
 Early HKs (HKI): N=25 Mean age 20 AOA 0-2
 Late HKs (HKII): N=25 Mean age 20 AOA 7-10

Native Korean Speakers (NK)
(Controls: N=34; adult native Korean speakers)
All of them temporarily stayed in the USA less than 10 months.

Group	N	Age	AOA	Stay in the USA
HKI	25	20.0 (18-23)	0.21 (0-2)	19.8 (18-23)
HK II	25	20.0 (18-23)	8.4 (7-10)	11.6 (10-16)
NK	34	31.3 (21 42)		≤10 months

Korean Proficiency Test

- The Korean proficiency test was adopted from Sungkyunkwan University in Korea.
- All participants completed a standardized Korean proficiency cloze test.
- Test included 20 items (a perfect score, 100) with various properties of Korean grammar.
- I would like to give thanks to Ji-Hye Kim for pointing me to the Sungkyunkwan University Korean Proficiency Test for the current study. The same Korean proficiency test was used in J.-H. Kim (2007).

Korean Proficiency Test

Group	N	Mean	SD	Range
HKI	25	71.0	14.14	50-95
HKII	25	81.0	11.37	50-95
NK	34	96.8	4.06	85-100

- Late HKs (HKII) performed better than Early HKs (HKI).
- NK performed better than HKI and HKII.

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Main Task: Grammaticality Judgment Task

- · Paper-based test in Korean
- Local and non-local licensing conditions in both simple and complex sentences.
- 110 sentences (55 grammatical and 55 ungrammatical)
- 65 target sentences and 45 fillers/distractors
- Five sentences of each type
- The whole experiment consists of two tests: Test 1 for object and subject NPI licensing and Test 2 for NPI scrambling.

Stimuli

- Local Object NPIs in Simple Sentences
- (10) Chelswu-ka amwuto mit-ci an-h-ass-ta.

 C-NOM anyone trust-ci NEG-do-PST-DEC

 'Chelswu did *not* trust *anyone*.'
- Non-local Object NPIs in Complex Sentences
- (11) na-nun Chelswu-ka amwuto mit-ess-ta-ko I-TOP C-NOM anyone trust-PST-DEC-COMP

sayngkak-ha-ci an-h-nun-ta. think-do-cı NEG-do-PRS-DEC

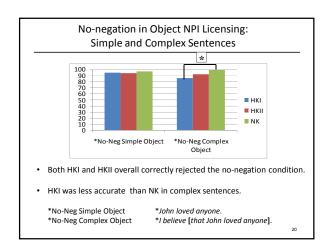
'I do not think that Chelswu trusted anyone.'

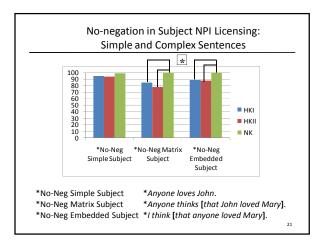
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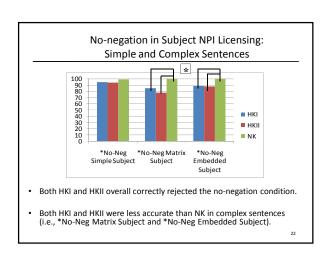
Results

No-negation:
Object and Subject NPI Licensing

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Summary: No-negation in Object and Subject NPI Licensing

- All three groups are aware that NPIs require negation.
- Both HKI and HKII were overall less accurate than NK in complex sentences (i.e., *No-Neg Complex Object, *No-Neg Matrix Subject, and *No-Neg Embedded Subject).

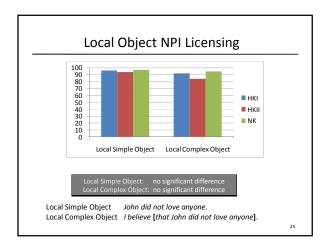
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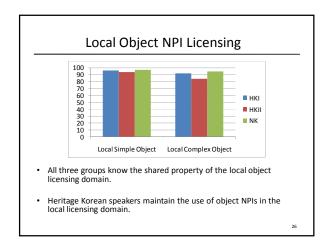
Results

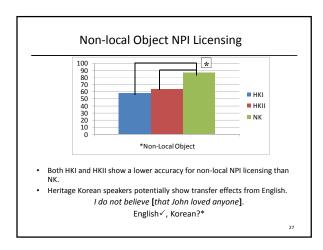
Local Object NPI Licensing:
Shared Property

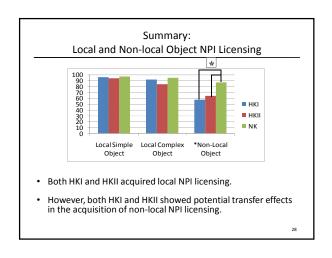
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Non-local Object Licensing: English-specific Property

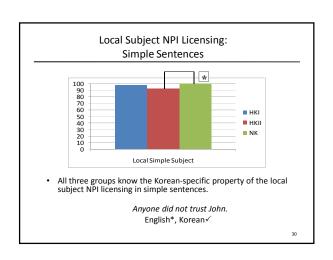


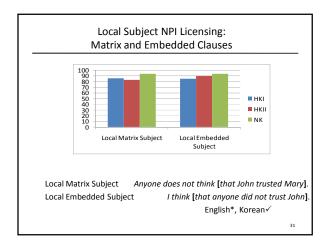


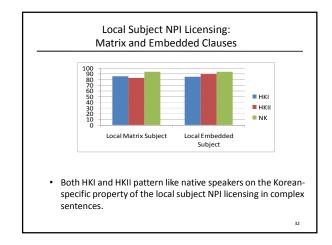


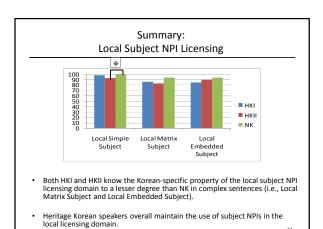












L1 Maintenance of the Shared Property: Local Object NPI Licensing

Do heritage Korean speakers maintain the shared properties of NPI licensing in Korean and English (e.g., local object NPI licensing)? YES.

- Heritage Korean speakers correctly accepted the shared property of local object NPI licensing both in simple and complex sentences.
- Heritage Korean speakers maintain the shared properties of NPI licensing in Korean and English.

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L1 Maintenance of the Korean-specific Property: Local Subject NPI Licensing

Do heritage Korean speakers maintain Korean-specific properties of NPI licensing in Korean (e.g., local subject NPI licensing)? YES.

- Heritage Korean speakers correctly accepted the Koreanspecific property of local subject NPI licensing both in simple and complex sentences.
- Heritage Korean speakers maintain Korean-specific properties of NPI licensing in Korean.

Transfer from English-specific Property: Non-local Object NPI Licensing

Do heritage Korean speakers show transfer effects from English (e.g., non-local object NPI licensing)? YES.

- Heritage Korean speakers overall incorrectly accepted non-local NPI licensing.
- Heritage Korean speakers seems to show transfer effects from English.

L1 Maintenance and Transfer: Other Heritage Korean Study

The current study is generally in line with the binding study in Kim, Montrul, & Yoon (2009).

- The study looked at (long-distance) anaphors in Korean:
 Bill, said [that Peter_k drew self_{i/k}]
- Kim et al. (2009) found that heritage Korean speakers show L1 maintenance for the local anaphor, *caki-casin*.
- Heritage Korean speakers show transfer effects for the longdistance anaphors, caki and casin.

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Conclusions

- The acquisition of both shared and Korean-specific NPI properties is robust by heritage Korean speakers.
- Transfer effects play a significant role in acquisition of some properties.
- Differences between HKI and HKII were not found in NPI licensing in Heritage Korean.

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Thank You!

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