

Go small or go big, there is no in between



Mandarin-English Speakers' Code-switching
Grammar Preference

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Roadmap

- Introduction
- Previous Works
- Methodology
- Results
- Discussion
- Conclusion
- References

Introduction

- Code-switching
 - Alternating languages in the same utterance
- Motivations
 - Grammar for code-switching?
 - Mandarin-English

Technical terms

- **Matrix Language**
 - The “main” language of the utterance

- **Embedded Language**
 - The “switched-to” language of the utterance

- a. 这周的 assignment 是写一篇小故事
- b. 'This week's *assignment* is writing a short story.

Previous Works

- Code-switching (morpho)syntactic frameworks:
 - Poplack (1980)
 - Muysken (1995)
 - Myers-Scotton (1993)

Myers-Scotton	Muysken	Poplack
ML + EL constituent	Insertion	(Nonce) borrowing
EL-islands		Constituent insertion
ML-shift	Alternation	Flagged switching
ML-turnover		Code-switching under equivalence
(Style shifting)	Congruent lexicalization	(Style shifting)

Table 1.1: Schematic comparison of code-switching and -mixing typologies in three traditions (Muysken, 2000)

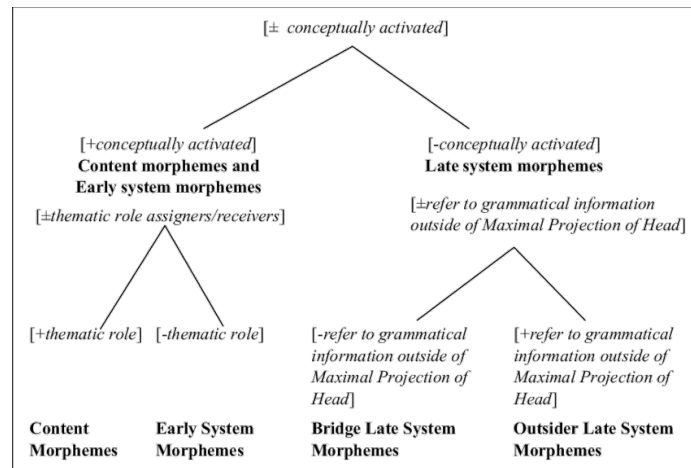
Matrix Language Frame Model

- **The ML Hypothesis:** As an early step in constructing ML+EL constituents, the ML provides the morphosyntactic frame of ML+EL constituents
- **System Morpheme Principle:** In ML+EL constituents, all system morphemes which have grammatical relations external to their head constituent (i.e. which participate in the sentence's thematic role grid) will come from the Matrix Language (Myers-Scotton, 1993, 2002)

Embedded Language Islands

Code-switching can have segments of various lengths. The MLF model categorizes the CS segment that follows EL grammar as an EL-island.

Internal EL-island can be treated as an *island* contained within the word boundary.



Related Works (cont.)

- Social attitude towards code-switching
 - The notion of Pure Language
- Text vs. Speech
 - Linguistics in Computer Mediated Communication

Reasons for code-switching

1. Lack of knowledge of one language in a certain subject
2. Excluding certain persons from a portion of the conversation
3. Identity expression
4. Indicating a change in tone of the conversation
5. Conducting metalinguistic commentary
6. Poetic usage involving puns and jokes

Research Question

1. Test the System Morpheme Principle in the Matrix Language-Frame model (Myers-Scotton, 1993) and,
2. Find factors that influence the speakers' code-switching grammar preferences.

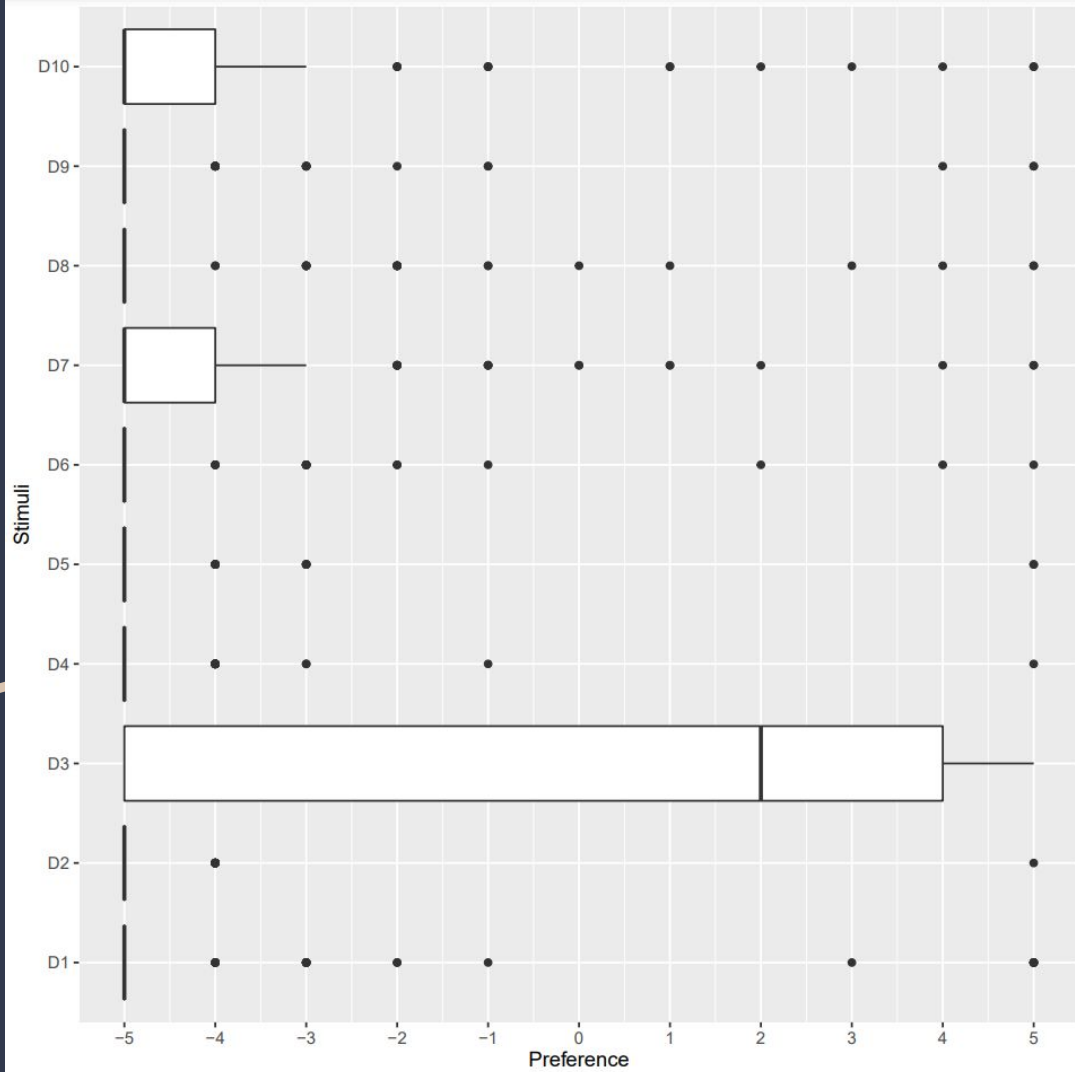
Methodology

- Participants
- Stimuli
 - Inspiration from daily conversations
 - Experience from earlier pilot study
 - Total of 20 sentences
- Questionnaire
 - Bilingual Language Profile (Birdsong et al. 2012)
 - Acceptability Judgement Task
 - Open-ended response questions

Results



Results: Determiners

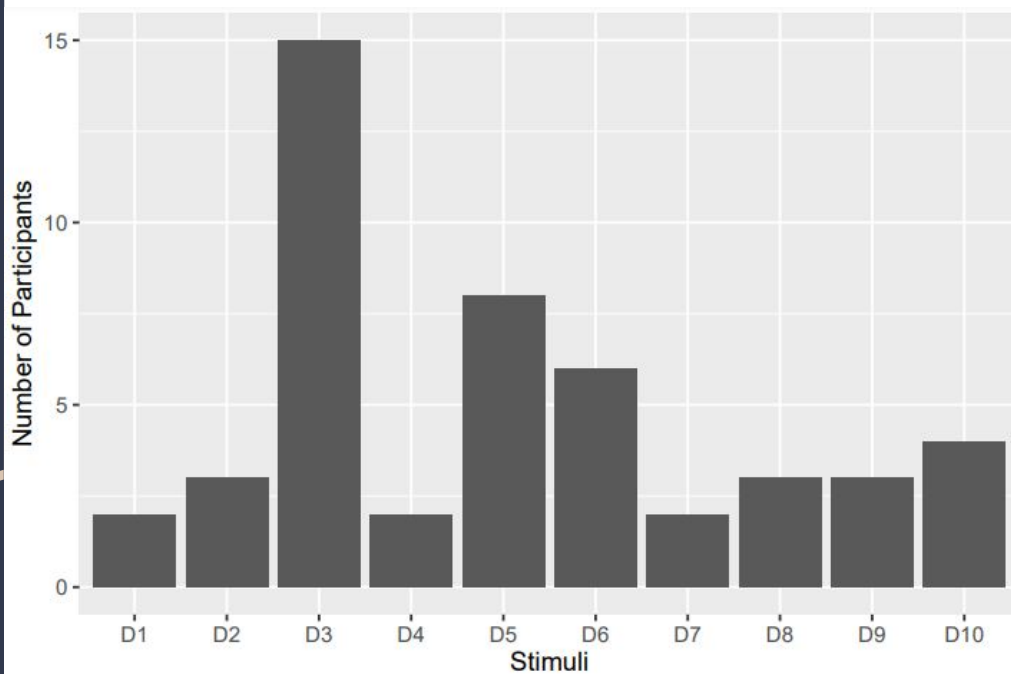


Determiner Sentence 3

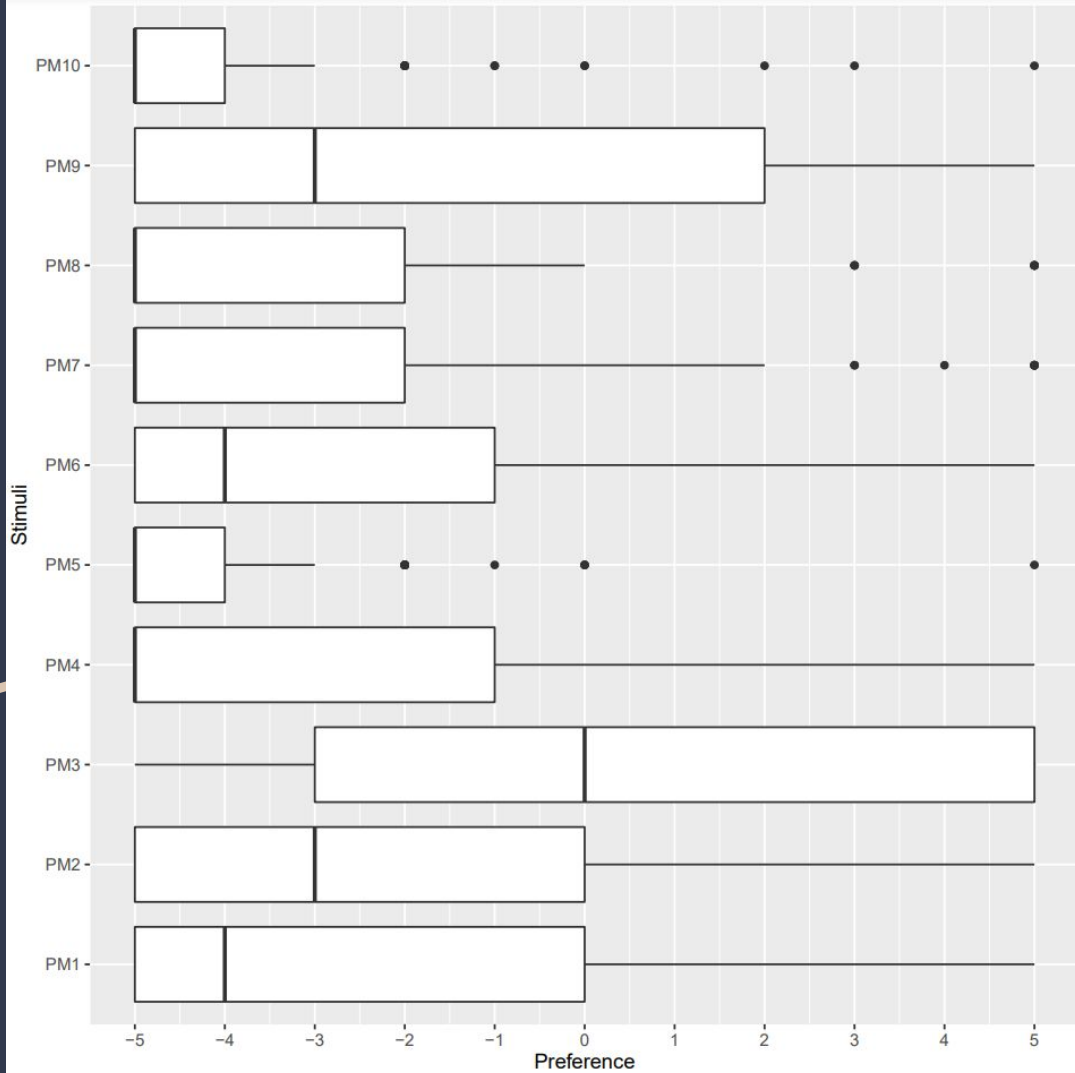
Stimulus D3:

- (2) a. 你得去找个 right person 才能解决这个问题。
b. ‘You need to find *(the) right person* to solve this problem.’¹
- (3) a. 你得去找 the right person 才能解决这个问题。
b. ‘You need to find *the right person* to solve this problem’

Results: Determiners



Results: Plural Markers



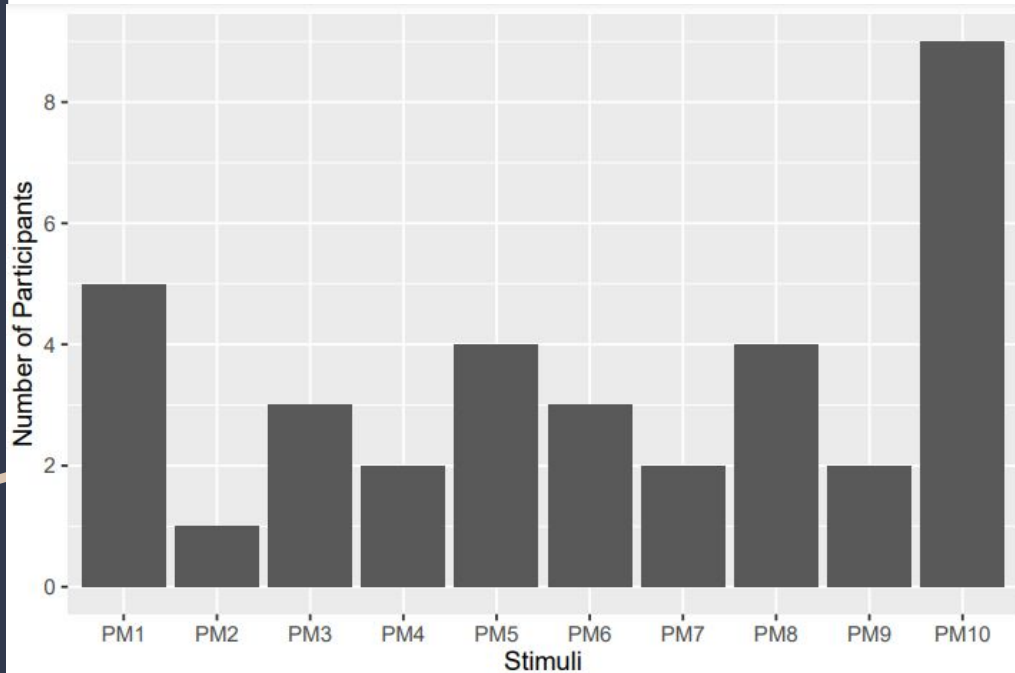
Plural Marker

Sentence 3

Stimulus PM3:

- (4) a. 教授刚把带 *comment* 的作业发回来。
b. ‘The professor just sent the homework back with comment(-s)’
- (5) a. 教授刚把带 *comments* 的作业发回来。
b. ‘The professor just sent the homework back with comments’

Results: Plural Markers



Results: Cont.

- All participants except 3 hold positive attitudes toward CS
- People preferring sentences with English plural markers are more proficient in English

Discussion

- The Matrix Language Frame model is robust
 - Mandarin grammar has certain “empty” slots that can be filled by English lexical items
- Participants are very aware of code-switching
 - “I try to avoid mixing (languages) when talking to people who’s unfamiliar with English. ... As long as both sides can understand the conversations. ... I found people have no problem accepting (code-switching) and even prefer it.”

Conclusion

- Code-switching need to follow grammar!
- English plural markers are acceptable (for some people) in their Mandarin sentences
- Determiners are an absolute NO

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Future Directions

- Replace text based stimuli with audio samples
- Incorporate eye-tracking (visual world paradigm) to evaluate reaction time (RT)

Thank you to everyone
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References



Participant profile

