

Conceptualization of Event Packaging in Chinese Action-Motion SVC

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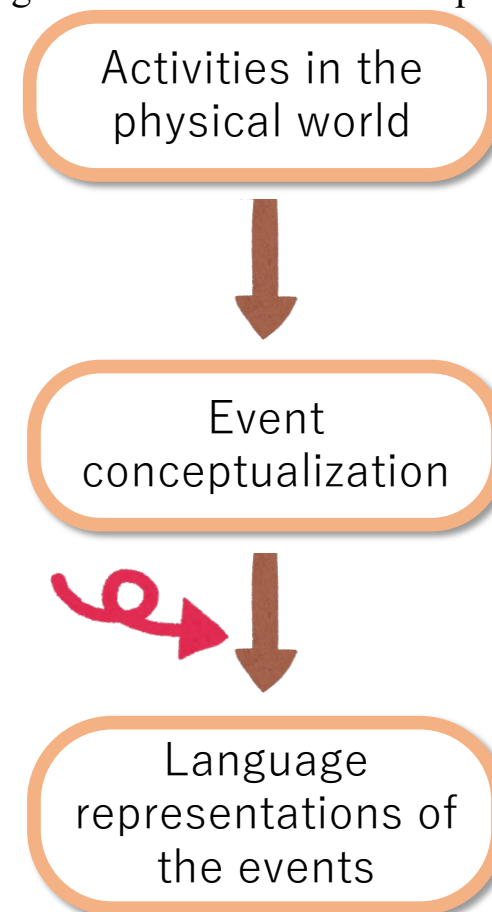
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Introduction

Figure 1 Event verbalization process

- Goal of this study
 - To investigate the **cognitive constraints** on event conceptualization in monoclausal **serial verb construction** (Li and Thompson 1989) that describes **Action-Motion** event in Mandarin Chinese.
 - To provide empirical evidence for the language-concept mapping (isomorphism, Givón 1991a)
 - compact form – compact concept



Chinese Action-Motion Serial Verb Construction

- “A Serial Verb Construction (SVC) is a sequence of verbs which **act together as a single predicate, without any overt marker** of coordination, subordination, or syntactic dependency of any other sort.” (Aikhenvald 2006:1)

(1) *Tā mǎi shū huí jiā le.*
3SG buy book return home LE
‘S/he bought a book/books and went home.’

Chinese Action-Motion SVC

(2) *Tā mǎi le shū, zàinàzhīhòu (tā) huí le jiā.*
3SG buy LE book after.that 3SG return LE home
‘S/he bought a book/books and went home after that.’

biclausal

Eventhood of SVCs

- An SVC describes a compact event (Aikhenvald 2006, 2018; Bisang 2009; Durie 1997; etc.).
 - empirical studies in other languages: Givón (1991b); Defina (2016); Cole (2016)
- SVCs in Chinese are often claimed to be representing compact events (Fan 2016; Gao 2020; Liu 2015; Peng 2019; Yin 2010).
 - not yet any empirical work

Measure of Conceptualization: Event Continuity

- Event Segmentation Theory (Zacks et al. 2007; Zacks and Swallow 2007)
 - fail in predictions make event boundaries
- Event Continuity
 - Perception of uninterrupted progression across event segments (time, space, maintenance of result and/or effect)
 - Why this measure: Independent of linguistic expressions → conceptually independent and empirically testable (cf. Haspelmath 2016)

Research Questions and Hypotheses

- RQ: What are the factors (**spatio-temporal continuity, result continuity**) that affect the **event continuity in Chinese Action-Motion SVCs**, in comparison to their biclausal counterparts?
 - H1: SVCs are **less appropriate/preferred** than their biclausal counterparts to represent **spatio-temporally disrupted** event complexes.
 - H2: SVCs are **less appropriate/preferred** than their biclausal counterparts to represent **result-nullified** event complexes.

Appropriateness Rating Task: Design

- Participants: 30 (Avg. age = 29.8)
- Stimuli: 30 target / 82 total stimuli in random order
- Material:
 - Set A = uninterrupted event complex
 - Set B = spatio-temporally disrupted event complex
 - Set C = result-nullified event complex

Appropriateness Rating Task: Design

Pictorial stimuli

Text stimuli

“Can the sentence on the screen be used to describe the situation in the pictures?”



Set A (SVC)



张三买书回家了。
Zhangsan buy book return home PRT

*11. 画面中的情况是否能用屏幕上的句子来描述?

请您根据提供的画面来判断，画面中的情况是否能用屏幕上的句子来描述。

1星为“这个句子不能描述图中的情况”，5星为“完全能用这个句子描述画面的情况”。

1

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Set B (bi)



张三买了书，在那之后他回了家。
Zhangsan buy PFV book After.that he return PFV home

回家前他跟朋友喝了咖啡。
return home before he with friend drink PFV coffee



Set C (SVC)



张三买书回家了。

Zhangsan buy book return home PRT

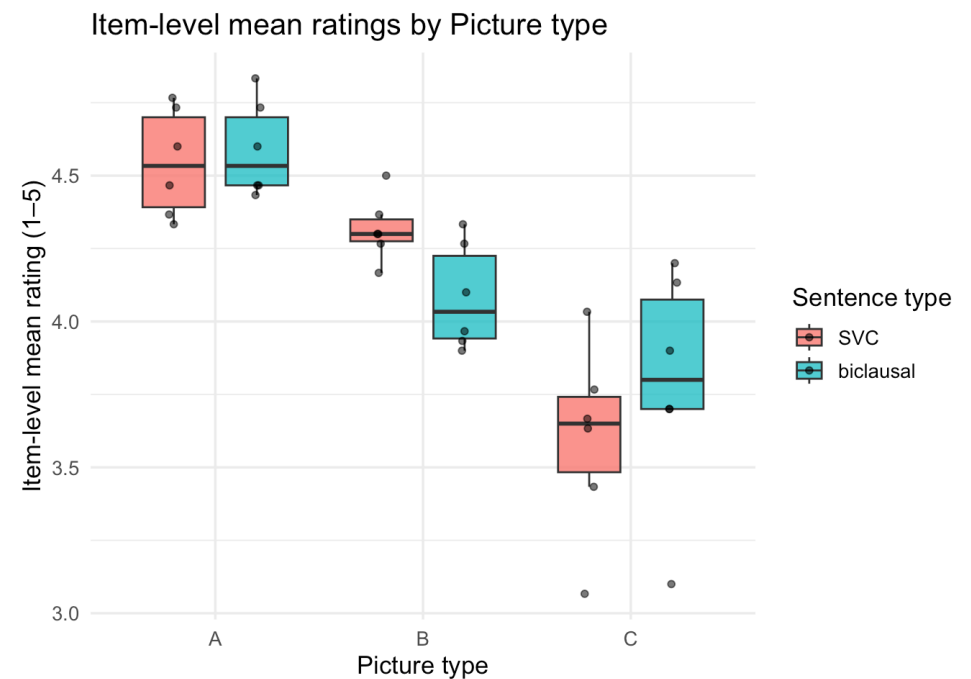
回家前他把书放在办公室了。

return home before he OM book put LOC office PRT

Appropriateness Rating Task: Results

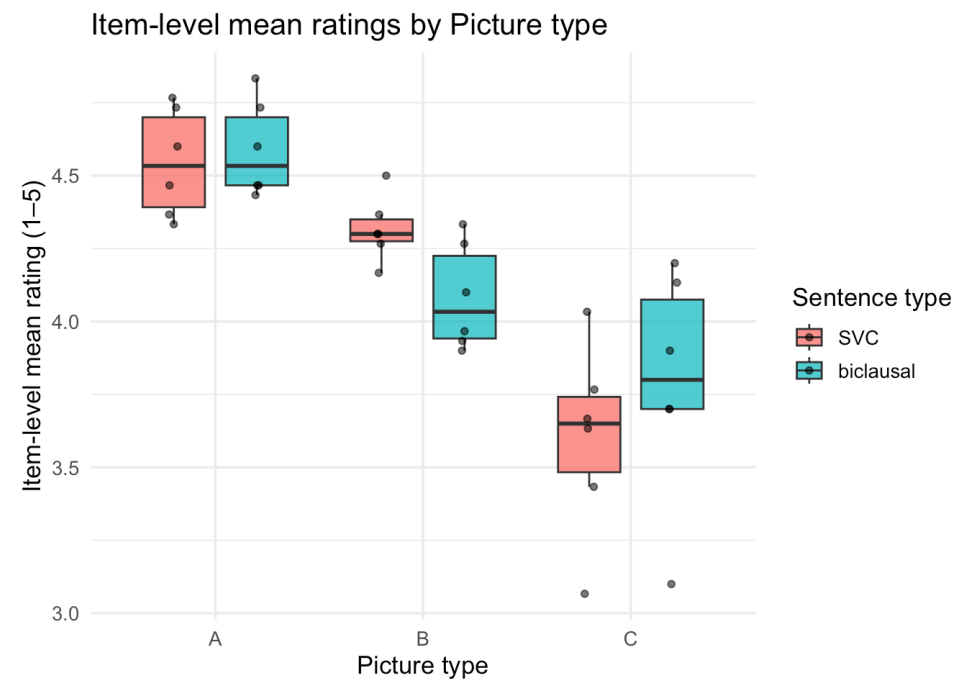
Key findings (R, version 4.4.1, function “clmm()”)

- Significant **general tendency** of disruption effect ($A > B > C$, $p < .001$)
- From Set A to B, SVCs were rated **similarly** to biclausal sentences ($p = .2764$)
- From Set B to C, SVCs were rated significantly **lower** than their biclausal counterparts ($p = .0477$);



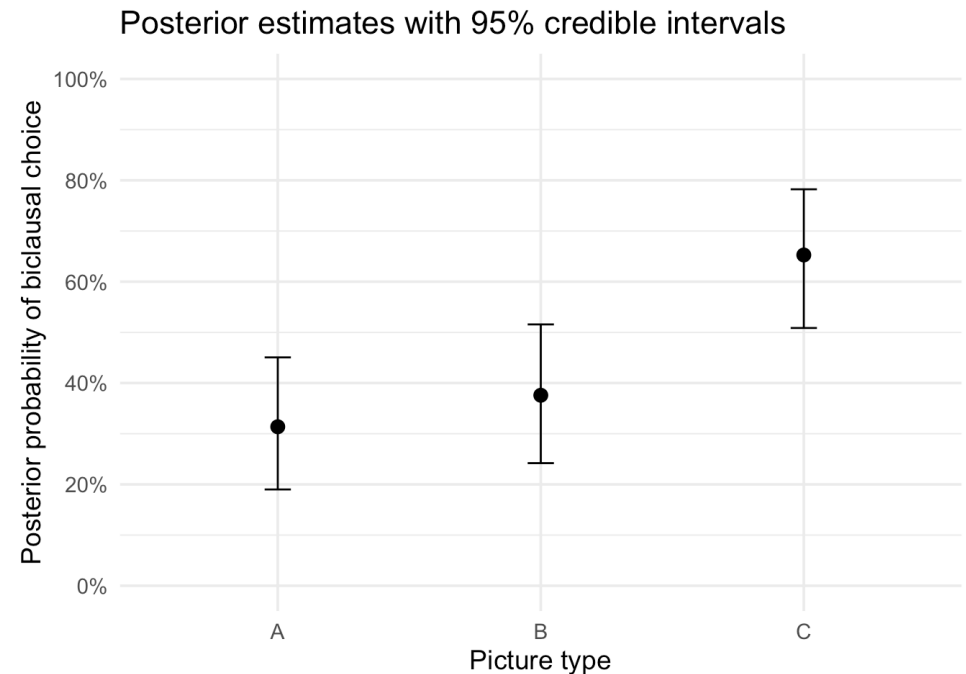
Appropriateness Rating Task: Results

- Some questions
 - Set A: possible **ceiling effect** of SVC and biclausal
 - Set B: influence of disruption not differentiable between grammar structures → appropriateness rating task was not sensitive enough?
- Therefore, a **Forced-Choice Task** with more sensitivity to grammar structure was conducted.



Forced-Choice Task (more grammar-sensitive)

- 12 participants (Avg. age = 27.5)
- Bayesian multilevel logistic model (R, version 4.4.1, function “brm()”)
- Confirmation of previous results
- Novel findings
 - Set A: SVC > biclausal
 - Set B: indifferent
 - Set C: SVC < biclausal



General Discussion (1)

- Isomorphic relationship is sensitive to continuity type
 - Ratings drop with spatio-temporal disruption but do **not** effectively **shift preference of grammar structure**.
 - Spatio-temporal disruption was **strong enough to affect the appropriateness ratings** but was **not strong enough to affect the choice on grammar**.

H1



(1) 张三拿书去教室了。去教室前他去玩了一会儿跳舞机。



(2) 张三拿了书，在那之后去了教室。去教室前他去玩了一会儿跳舞机。

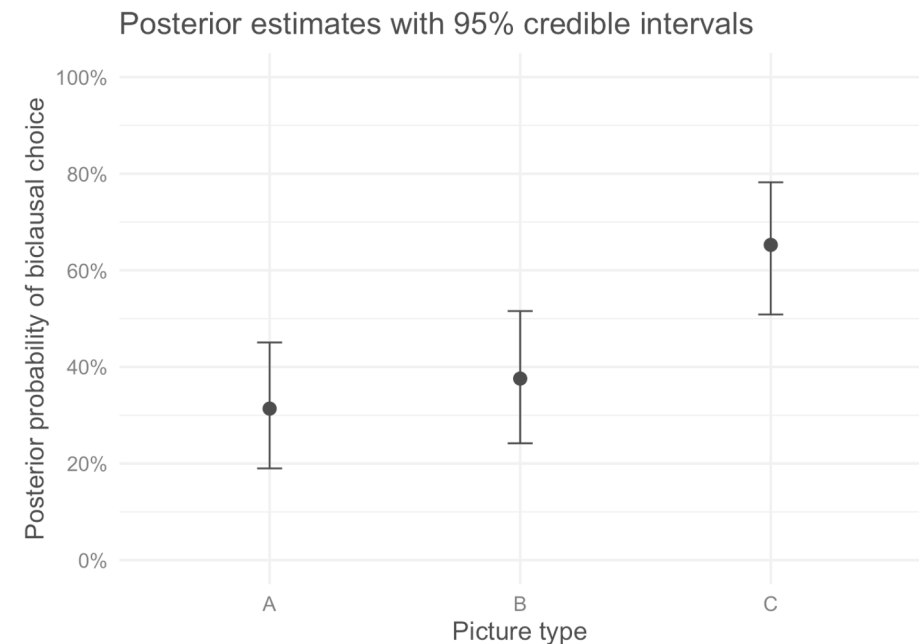
General Discussion (2)

- Cognitive constraints found in Action-Motion SVCs
 - **Disruption** to result continuity **shifts the preference** from SVC to their biclausal counterparts.
 - Isomorphic tendency

H2

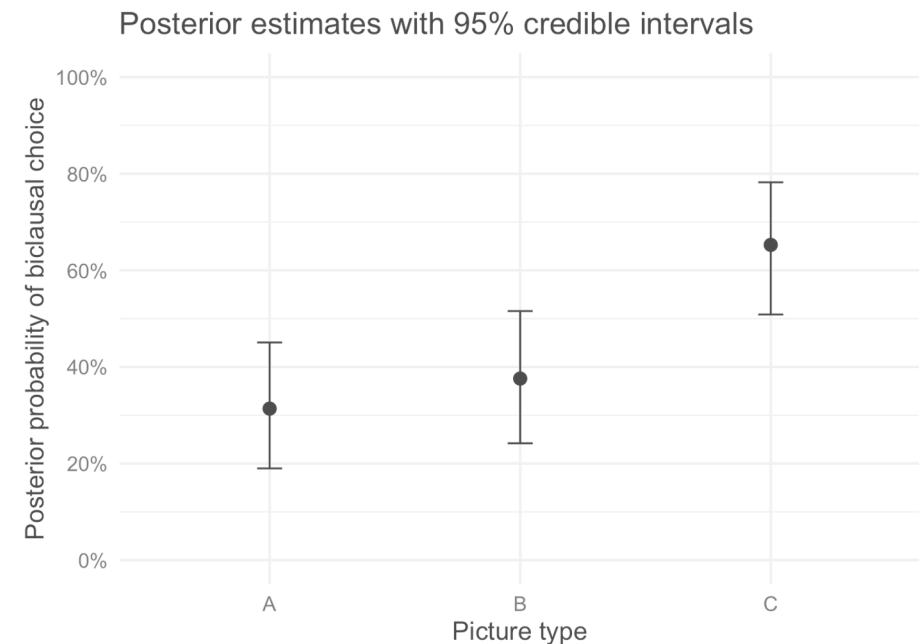


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General Discussion (3)

- Cognitive constraints found in Action-Motion SVCs
 - **Compact form** (SVCs) are favored for reporting **compact events** (uninterrupted Action-Motion event complexes).
 - Isomorphic tendency





Limitations and Outlook

- Limitations
 - Pictorial stimuli can be less effective than video stimuli
- Outlook
 - Beyond Action-Motion SVCs: Action-Action / purposive continuity / cross-linguistic investigations

Conclusion

- **Isomorphic relationship found**
 - SVCs are preferred for descriptions of compact events;
 - Disruption such as nullification of results shifts preference away from SVCs
- **Not all disruptions differentiate grammar structures**
 - Change of space and time do not shift preference.
- Contribution: This study provides an **empirically testable framework** for analyzing language-concept mapping in event conceptualization. Besides presenting **empirical evidence** for the isomorphic relationship, it refines our understanding of **internal connections of event complexes** in language descriptions.

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Glossary

LE = sentence-final particle expressing the change of a new situation/state

LOC = location

OM = object marker

PFV = perfective