

Revisiting Chinese P: is it a necessary category?

Chenchen (Julio) Song, `cs791@cam.ac.uk`

Department of Theoretical and Applied Linguistics
Gonville & Caius College, University of Cambridge

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Outline

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Question

Is P a necessary category in Chinese?

Answer

No. There isn't sufficient PLD contrast to cue a separate category P.

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A neo-emergentist approach to features and categories.

The (full) inventory of substantive FFs is not UG-given but emergent.

- UG provides FF template
- PLD skews FF postulation based on language-specific salience
- 3rd factors govern the process

Crucially

- FFs regulate systematic contrasts that cannot be explained by solely semantic or phonological considerations.
- Since contrasts vary across languages, FF inventory and category contents also vary.

(Biberauer 2016)

Two 3rd factors relevant here:

- **Feature Economy (FE)**: postulate as few formal features as possible to account for the input.
- **Maximize Minimal Means (MMM)**: a minimax search algorithm which minimizes feature postulation but makes maximal use of available features. (Biberauer 2016: 8, Roberts *to appear*: 95)

3rd factors are **domain-general** learning biases leading towards optimal use of cognitive resources.

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Reported P items in Chinese

The following lexical items are often classified as P:

- Postpositions: *shàng* “on”, *xià* “under”, *lǐ* “in”, *wài* “out”, etc.
- Prepositions: *cóng* “from”, *xiàng* “to”, *zài* “at”, *bǎ* “DISPOSAL”, etc.

There are many more items, but their syntactic distributions generally fall in the above two classes.

I will argue: although these are translated into English as P elements, their categorial status in Chinese is **not** P.

Chinese “PostPs” are in fact NPs because:

① They are head-final like NPs.

(1) a. chéng **wài** (Mandarin)
city outside
“the outside of the city” (\neq outside the city)

b. qiáo **xià**
bridge underneath
“the underneath of the bridge” (\neq under the bridge)

c. shān **lǐ**
mountain inside
“the inside of the mountain” (\neq in the mountain)

(2) chéng-**mén** “city-gate”, qiáo-**dūn** “bridge-pier”, shān-**jiǎo** “mountain-foot”

② They can be used as subjects/objects like NPs.

- (3) a. **Chéng-wài** hěn bú-cuò.
city-outside very not-bad
“The city’s outside is very nice.”
- b. Dí-jūn hōng-zhà **qiáo-xià**.
enemy-army explode-explode bridge-under
“The enemies exploded the underneath of the bridge.”
- (4) a. **Chéng-mén** hěn dà.
city-gate very bit
“The city gate is very big.”
- b. Dí-jūn hōng-zhà **qiáo-dūn**.
enemy-army explode-explode bridge-pier
“The enemies exploded the piers of the bridge.”

③ They usually can't denote location alone (like NP).

(5) a. Tā *(zài) **chéng-wài** zhù.
he be at city-outside live
“He lives outside the city.”

b. xiǎo-yā *(zài) **qiáo-xià** yóu-shuǐ.
small-duck be at bridge-under swim-water
“The small duck swims under the bridge.”

(6) a. Tāmen *(zài) **chéng-mén** xiāng-huì.
they be at city-gate each other-meet
“They meet each other at the city gate.”

b. Dírén *(zài) **qiáo-dūn** mái léi.
enemy be at bridge-pier bury mine
“The enemies bury mines at the piers of the bridge.”

Summary 1

HL&L: the postnominal elements semantically resembling postpositions are **nouns** in Chinese.

→ Since the “postpositions” morphosyntactically behave like nouns, there is no PLD cue to formalize a separate category.

Djamouri, Paul & Whitman's (2013) counterarguments

- The “postpositions” require complements (like P).
- They are incompatible with the relational linker *de* (unlike N).

- (7) a. Shū zài *(zhuōzi) **shàng**. (“postposition”
book be at table on
“The book is on *(the table).”
- b. zhuōzi (* de) **shàng**
table REL on
“on the table/*the table’s on”
- (8) a. Shū zài **shàng-miàn**. (noun)
book be at upper-face
“The book is on the top.”
- b. zhuōzi de **shàng-miàn**
table REL upper-face
“the table’s top”

- ① The complement requirement is a prosodic effect.
- Modern Chinese favors constituents with even number syllables.
- (9) a. ?? **Shū** zài **shàng**.
book be at top
“The book is on the table.”
- b. **Shèng-shū** zài **shàng**.
holy-book be at top
“The holy book is on the top.”
- (10) a. **Huáng-tiān** zài **shàng**, **hòu-tǔ** zài **xià**.
yellow-sky be at top thick-earth be at bottom
“The sky is on the top; the earth is at the bottom.”
- b. **Jiārén** zài **lǐ**, **qīnqī** zài **wài**.
family be at inside relatives be at outside
“Family members are inside; relatives are outside.”

2 The unacceptability of *de* is a register effect.

- Monosyllabic location nouns (high-register) vs. *de* (low-register).
- Register has grammatical significance in Chinese (Feng 2012).

(11) a. zhuōzi ***de** **shàng**
table REL top
“the top of the table”

b. zhuōzi **zhī** **shàng**
table REL top
“the top of the table”

(12) a. dà-qiáo ***de** **xià**
big-bridge REL underneath
“the underneath of the bridge”

b. dà-qiáo **zhī** **xià**
big-bridge REL underneath
“the underneath of the bridge”

(13) a. jiàoshì ***de** **wài**
classroom REL outside
“the outside of the classroom”

b. jiàoshì **zhī** **wài**
classroom REL outside
“the outside of the classroom”

Vice versa, disyllabic location nouns (low-register) are incompatible with *zhī*.

(14) a. zhuōzi **de** **shàng-miàn**
table REL upper-face
“the top of the table”

b. zhuōzi ***zhī** **shàng-miàn**
table REL upper-face
“the top of the table”

(15) a. dà-qiáo **de** **xià-fāng**
big-bridge REL lower-direction
“the underneath of the bridge”

b. dà-qiáo ***zhī** **xià-fāng**
big-bridge REL lower-direction
“the underneath of the bridge”

(16) a. jiàoshì **de** **wài-biān**
classroom REL outer-side
“the outside of the classroom”

b. jiàoshì ***zhī** **wài-biān**
classroom REL outer-side
“the outside of the classroom”

DP&W's (2013) counterarguments are not valid. I stay with HL&L's (2009) conclusion that Chinese “postpositions” are nouns.

→ They express locational meanings, but this does not entail formalized [Loc] or [P] feature.

“Prepositions” in Chinese

The basic distribution of “prepositions” is shown below.

- The “PrepP” always precedes the main verb.

- (17) a. Tā **cóng** nán-fāng lái.
he from south-direction come
“He comes from the south.”
- b. Wǒ **bǎ** tāng hē le.
I DISP soup drink SFP
“I ate the soup.”
- c. Fànren **xiàng** chá-lǐ xià le dú.
criminal to tea-inside put down PFV poison
“The criminal put down poison into the tea.”

“Prepositions” in Chinese

The “prepositions” all have verbal origin in history.

- (18) a. **cóng**, suí-xíng yě. (2c. BC)
cong follow-go SFP
“*Cóng* means ‘to follow’.”
- b. **Bǎ** jiǔ lín fēng. (11c. AD)
hold alcohol face wind
“(I) hold the alcohol and face the wind.”
- c. Jiàn jiàn **xiàng** jǐ. (3c. AD)
see sword face self
“He saw the sword was facing him.”

“Prepositions” in Chinese

And they still have verbal uses today.

- (19) a. Tā **cóng** guò jūn.
he follow EXP army
“He once joined the army.”
- b. Tā jìnlái **bǎ** le xǔduō měi.
he recently flirt PFV many girls
“Recently he flirted with many girls.”
- c. Kuíhuā **xiàng** zhe tàiyáng.
sunflower face PROG sun
“The sunflower is facing the sun.”

“Prepositions” are verbal

I argue these “prepositions” are [V] rather than [P], because

- they have verbal uses both diachronically and synchronically,
- they always precede the main verb, which is unexpected if they head PPs (Chinese VP is head-initial).

→The contrast is [V]-internal rather than between [V] and another lexical category.

“Prepositions” are verbal

I argue these “prepositions” are [V] rather than [P], because

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- they always precede the main verb, which is unexpected if they head PPs (Chinese VP is head-initial).

→The contrast is [V]-internal rather than between [V] and another lexical category.

Considering they are originally purely verbal, their diachronic semantic bleaching (grammaticalization) should go up the verbal extended projection (cf. Roberts & Roussou 2003).

→After grammaticalization, they become **light verbs** rather than prepositions.

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In Chinese

- the “postpositions” are location nouns,
- the “prepositions” are light verbs.

Since they well fit into the binary (N-V) categorial contrast, there is no need to postulate a third lexical category P.

Interaction of three factors: a category-poor UG, a Chinese-specific PLD, the 3rd factors FE and MMM.

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