

## Arrive or achieve? the morphosyntax of *dao* in Mandarin Chinese

**Introduction:** As a multifunctional item in Chinese, *dao* can occur in various syntactic environments. It can serve as a verb or a preposition and it can be combined with another verb to form a chunk, *V-dao*. The last usage of *dao* exhibits intriguing morphosyntactic properties: *dao* cannot occur independently. It is flexible in terms of C selection: CP or DP and the  $\theta$  role of an DP argument can be location or a theme, see (1). In addition, this *dao* seems to be optional for some verbs but not others, both in motion and non motion events, as in (2) and (3).

**Research question:** Why *dao*, as the verb of ‘arrive’, can occur in such diversified syntactic contexts? Why *dao* is optional in some cases but not in others? Is it possible to give a unified account for the multifunctional *dao*?

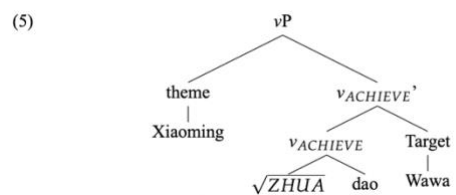
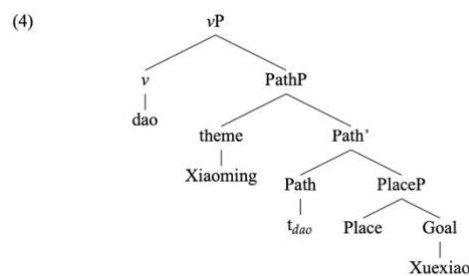
**In the literature,** the multifunctionality of *dao* has been attributed to its different categories. *Dao* is argued to be a directional verb/preposition (Lin, 2019; Liu, 1998; Lv, 1980; Zhu, 1982; a.o), or a completive marker/particle/linker (Chao, 1965; Dong, 2017; Xuan, 2008; a.o). Such accounts are insufficient in capturing the universal semantic core among its different usages: the achievement of a target, be it a location, an entity or a state.

**Proposal:** Under the framework of Distributed Morphology (DM, Halle et al., 1993; Marantz, 1997), we propose *dao* realizes two syntactic entities: it is the PF exponent of a feature bundle [PATH, PLACE]. *Dao* is inserted at PATH during late merge and undergoes head movement to  $v$ , as in (4). Such a derivation accounts for *dao*’s ability to take a locative argument and its flexibility in terms of category, compared with the intransitive ‘arrive’ in English. *Dao* in *V-dao* chunk is the realization of a light verb ( $v$  categorizer):  $v_{ACHIEVE}$ , which has the argument structure in (5).

The  $v$  requires a root to discharge its categorial function. That’s why *dao* is involved in word formation and never occurs independently. The root names the action by adjoining to *dao* (Harley, 2005), indicating *dao*’s matrix status in the chunk. With the semantic feature ‘achievement’, *dao* encodes a transitive achievement event which is punctual, telic and agentiveless. The flexibility of C selection is attributed to the denotation of the target, which can be a locative DP (goal), an individual DP (theme) or a clausal CP (state).  $v_{ACHIEVE}$ , signifies the syntactic encoding of telicity. However, if such an endpoint is entailed in the lexical semantics of a verb, *dao* is optional. **Theoretical implications:** The bipartite analysis of *dao* is a reflection of the root inertia property in Chinese (Hu, 2020). The proposal of  $v_{ACHIEVE}$ , shed light on the universal event template of a directed motion and a change of state event (Acedo-Matellán, 2016; Beavers, 2012, 2013; Ramchand, 2008; Snyder, 2001; Talmy, 1985). The availability of  $v_{ACHIEVE}$ , also accounts for the cross linguistic variation in expressing the endpoint of an event: semantic entailment or syntactic encoding. This is in line with the spirits of Borer Chomsky Conjecture (BCC, Baker, 2008) and the analyticity parameter proposed in (Huang, 2014).

**Keywords:** *Dao*, motion event, achievement event, analyticity, Distributed Morphology

- |     |    |                                      |               |
|-----|----|--------------------------------------|---------------|
| (1) | a. | Xiaoming (zou-)*dao xuexiao le.      | (DP location) |
|     |    | Xiaoming (walk-)*dao school SFP      |               |
|     |    | ‘Xiaoming walked to school.’         |               |
|     | b. | Nana (zhao-)*dao le shouji.          | (DP theme)    |
|     |    | Nana (find-)*dao PFV phone           |               |
|     |    | ‘Nana found the phone.’              |               |
|     | c. | 重点和备注 jo dajia dou hen bunai fan.    | (CP)          |
|     |    | He cry-dao everyone all very annoyed |               |
|     |    | ‘He cried everyone annoyed.’         |               |
| (2) | a. | Xiaoming zou*(-dao) le xuexiao.      |               |
|     |    | Xiaoming walk-dao PFV school         |               |
|     |    | ‘Xiaoming walked to school.’         |               |
|     | b. | Xiaoming hui(-dao) fangjian le.      |               |
|     |    | Xiaoming return-dao room SFP         |               |
|     |    | Xiaoming returned the room.          |               |
| (3) | a. | Xiaoming meng*(-dao) le NaNa.        |               |
|     |    | Xiaoming dream-dao PFV Nana          |               |
|     |    | ‘Xiaoming dreamt of Nana.’           |               |
|     | b. | Xiaoming chi(-dao) le huoguo.        |               |
|     |    | Xiaoming eat-dao PFV hotpot          |               |
|     |    | Xiaoming ate the hotpot.             |               |



## References

- Acedo-Matellán, V. (2016). *The morphosyntax of transitions: A case study in latin and other languages* (Vol. 62). Oxford University Press.
- Baker, M. (2008). The macroparameter in a microparametric world.
- Beavers, J. (2012). Lexical aspect and multiple incremental themes. *Telicity, change, and state: A cross-categorical view of event structure*, 23–59.
- Beavers, J. (2013). Aspectual classes and scales of change. *Linguistics*, 51(4), 681–706.
- Chao, Y. R. (1965). *A grammar of spoken chinese*. University of California Press.
- Dong, X. (2017). Dongci hou xuhua wanjie chengfen de shiyong tedian ji xingzhi [on post-verbal completive elements]. *Chinese Studies of Linguistics*, (3), 290–298.
- Halle, M., Marantz, A., Hale, K., & Keyser, S. J. (1993). Distributed morphology and the pieces of inflection. 1993, 111–176.
- Harley, H. (2005). How Do Verbs Get Their Names? Denominal verbs, Manner Incorporation, and the Ontology of Verb Roots in English. In *The Syntax of Aspect: Deriving Thematic and Aspectual Interpretation*. Oxford University Press.
- Hu, X. (2020). Same root, different categories: Encoding direction in chinese. *Linguistic Inquiry*, 1–45.
- Huang, C.-T. J. (2014). On syntactic analyticity and parametric theory. *Chinese syntax in a cross-linguistic perspective*, 1–48.
- Lin, J. (2019). *Encoding motion events in mandarin chinese: A cognitive functional study* (Vol. 11). John Benjamins Publishing Company.
- Liu, Y. (1998). *Quxiang buyu tongshi [analysis of directional complement]*. Beijing: Beijing Language; Culture University Press.
- Lv, S. (1980). *Xiandai hanyu babai ci [eight hundred word in modern chinese]*. Beijing: Commercial Press.
- Marantz, A. (1997). No escape from syntax: Don't try morphological analysis in the privacy of your own lexicon. *University of Pennsylvania working papers in linguistics*, 4(2), 14.
- Ramchand, G. (2008). *Verb meaning and the lexicon: A first-phase syntax* (Vol. 116). Cambridge University Press Cambridge.
- Snyder, W. (2001). On the nature of syntactic variation: Evidence from complex predicates and complex word-formation. *Language*, 324–342.
- Talmy, L. (1985). Lexicalization patterns: Semantic structure in lexical forms. *Language typology and syntactic description*, 3(99), 36–149.
- Xuan, Y. (2008). *Wanjie duanyu jiashe he hanyu xihua buyu yanjiu [investigating grammaticalized resultative complements in chinese and the telicity phrase hypothesis]* (Doctoral dissertation). Peking University.
- Zhu, D. X. (1982). *Yufa jiangyi [lectures on chinese syntax]*. Beijing: Shangwu Yinshuguan [Commercial Press].