# Affectedness in Passives

Colin Hirschberg (chirschb@ucsc.edu), Jess H.K. Law (jlaw5@ucsc.edu)

University of California, Santa Cruz

#### Take home message

- Passives are licensed by affectedness.
- Affectedness comes in degrees (Beavers 2011)
- Typology of passives predicted based on affectedness

#### Selectional properties of bei and get-passives

Mandarin *bei*-passives and English *get*-passives both impose selectional requirements on predicates undergoing passive formation:

Shucai bei Mali chi-le.

(Accomplishment) veggies pass Mary eat-perf The veggies got eaten by Mary.' Men bei Lisi kai-le.

door pass Lisi open-perf (2) The door got opened by Lisi.' (Achievement)

\*Shucai bei Mali qie-le.

(Degree achievement) veggies pass Mary cut-perf (3) The veggies got cut by Mary.'

\*Beijixing bei Lee Typhoon gensui-le.

PASS hikers (Activity) follow-perf (4)Polaris 'Polaris got followed by Typhoon Lee.'

\*Beijixing bei yuanzuzhe gensui-le.

PASS hikers follow-perf (Activity) (5)Polaris "Polaris got followed by the hikers."

\*Binqiling bei Xiaoli xihuan(-le).

(6)

(Stative Verb) ice-cream PASS Ashley like-PERF

\*Ice-cream got liked by Ashley.'

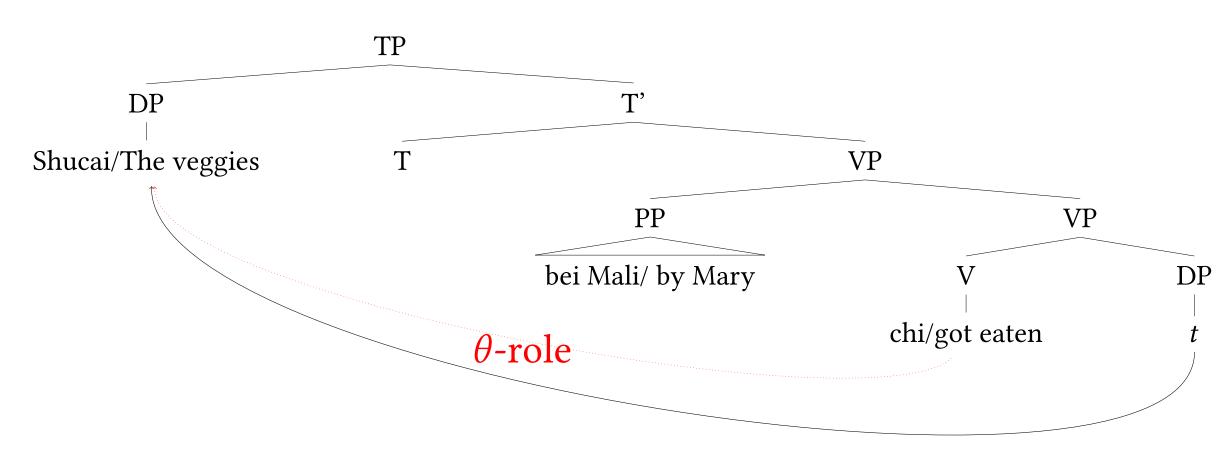
- *Bei*-passives: requires a unique **endpoint** provided by the predicate
- *Get*-passives: requires the potential of **impact** following the onset of an event

As these requirements are not found in active sentences, they must stem from passive formation.

## Implications for extant theories of passives

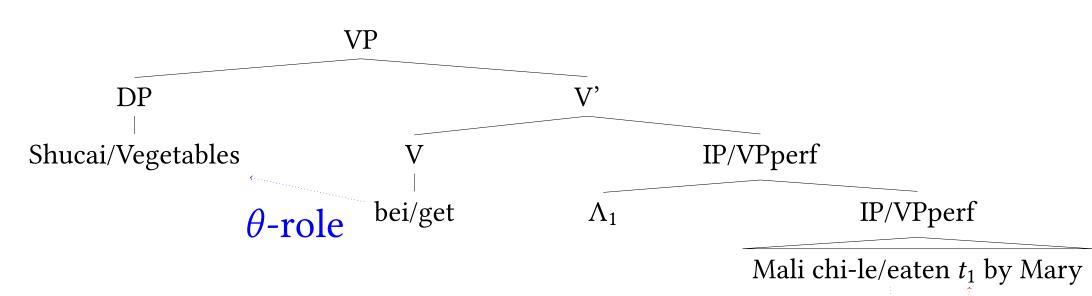
Movement(-only) approach (Wang 1970, Li 1985, 1990, Huang 1999, a.o.)

- Passivization involves movement to a non-thematic A-position.
- The surface subject receives **one thematic role**, from the verb via an A-chain.
- Additional properties are attributed to discourse/pragmatics.



Predication approach (Hashimoto 1987, Feng 1995, Chiu 1995, Cheng et al. 1996, a.o.):

- Passivization involves complex predicate formation.
- The surface subject receives **two thematic roles**, a primary role from the main verb (via an A- or A'-chain) and a secondary role from the passive morpheme *bei* and *get*.



#### $\theta$ -role

The selectional requirements are the content of the secondary thematic role.

## References

- Beavers, J. (2011) On affectedness. *NLLT* 29: 335–370.
- Cheng, L. L.-S., C.-T. J. Huang, Y.-H. A. Li, and C.-C. J. Tang. 1993. Three ways to get passive. Ms.
- Chiu, B. 1995. An object clitic projection in Mandarin Chinese. *JEAL* 4: 77–117.
- Hashimoto, M. 199. The historical and geographical development of Chinese passive constructions. *Zhongguo* Yuwen 196: 36-49.
- Feng, S. 1995. GB theory and passive sentences in Chinese. *StiCL* 1: 1–28.
- Huang, C.-T. J. (1999). Chinese Passives in Comparative Perspective, THJCS 29: 423–509.
- Li, Y.-H. A. 1990. Order and constituency in Mandarin Chinese.
- Müller, S. 2013. Passive in Danish, English, and German.

### The Affectedness Hierarchy

An individual x is affected with regard to a predicate  $\phi$  by....

(Beavers 2011)

(TIME)

- Quantized Change (Affectee4) iff  $\phi \to \exists e \exists s [result(x, s, e, g_{\phi})]$ , where e is an event, s a scale, and  $g_{\phi}$  a **specific result state** on s provided by the predicate  $\phi$  in relation to the event e. (E.g., eat, open)
- (8)**Non-Quantized Change (Affectee3) iff**  $\phi \to \exists e \exists s \exists g [result(x, s, e, g)]$  where g is any result state entailed by  $\phi$  . (E.g., fold, cut)
- **Potential change (Affectee2) iff**  $\phi \to \exists e \exists s \exists \theta [\theta(x, s, e)]$ , where  $\theta$  is a thematic role (9)allowing change to be measured on some scale s. Although change is allowed, a **result state** is not entailed. (E.g., *hit*, *wipe*)
- **Unspecified change (Affectee 1) iff**:  $\phi \to \exists e \exists \theta' [\theta'(x, e)]$ , where  $\theta'$  is a thematic role that does not measure any change in relation to e. (E.g., like, follow)

#### Analysis

Mandarin bei realizes a voice head requiring quantized change.

- Two ways to be quantized
- an endpoint introduced by an accomplishment/achievement verb (as in (1) and (2))
- an endpoint introduced by a resultative predicate (as in (3))

#### Shucai bei Mali qie-\*(hao)-le.

veggies pass Mary cut-complete-perf (11)

'The veggies got (completely) cut by Mary.'

English get realizes a voice head requiring potential change.

- Only events have an onset (though some states can be coerced into events)
- Only certain events have the potential to impact their objects (compare (12) and (13))
- What happened to Polaris is that Typhoon Lee followed it. (12)
- #What happened to Polaris is that the hikers followed it. (13)

#### **Predictions**

Mandarin non-canonical objects do not delimit events, so they cannot form passives:

Xiaoli pao-le **shangwu**. (14)Ashley run-perf morning

(15)

'Ashley ran in the morning'

\*Shangwu bei Xiaoli pao-le.

Morning Pass Ashley run-perf

Intended: 'Morning got affected by Ashley's running.' Zhangsan chi-le haohua canting.

eat-PERF fancy restautant John

'John ate at a fancy restaurant.' (LOCATION)

\*Haohua canting bei Zhangsan chi-le.

fancy restaurant PASS John eat-PERF Intended: 'A fancy restaurant got affected by John eating there.'

**The role of sentience**: the affectedness approach can be enriched so that sentient individuals can be affected in more ways than non-sentient individuals

Haizi bei jiaolian kuajiang-le.

child PASS coach praise-PERF (16)

'The child got praised by the coach.'

Xuesheng bei laoshi piping-le.

**student** PASS coach criticize-PERF (17)

'The student got criticized by the teacher'

Mao/\*Yizi bei xiaopengyou da-le. cat/chair PASS children hit-perf (18)

'The cat/chair got hit by children.'

#### English get-passives trigger a state-to-event coercion:

The picture got liked by Ashley. (19)

## Limitations

- (Pseudo-)agency requirement on the lower subject of bei-passives
  - Niurou bei chushi/jiaobanji/\*dadao qie-hao-le.
- PASS chef/blender/big.knife cut-complete-PERF (20)'The beef was cut by a chef/blender/big knife.'
- English be-passives: seemingly much weaker affectedness requirement
- The end table is/?got liked by Susie's grandmother. (21)
- Impersonal passives: no internal argument to begin with

bliver arbejdet.

There become work.past-participle (22)'There is working.'

(Danish, Müller 2013)