

Cross-dialectal variation in English verb complementation: A multivariate corpus analysis

1

Ashraf Khamis

Doctoral Candidate
Saarland University

Department of Applied Linguistics,
Translation and Interpreting (FR 4.6)
Campus A2.2, Room 1.03
66123 Saarbrücken, Germany
ashraf.khamis@uni-Saarland.de

21 July 2015

1. Introduction

Research Background

3

- *To*-infinitive vs. gerundial *-ing* verb complementation
 - I remembered **to meet her** [*to*-infinitive clause signaling a potential future event]
 - I remembered **meeting her** [gerundial *-ing* clause denoting an actualized past event] (Cuyckens et al. 2014)
- Finite (*that*- or *zero*-clause) and non-finite (*to*-infinitive or gerundial *-ing* clause) verb complementation
 - language user's online preference (De Smet 2013: 27–9)

Research Background

4

- I **remember** that my great-grandfather died just one year before our journey to Hong Kong. [*remember* + *that*-clause]
- But I **remember** seeing this guy with long hair anyway running up and down Austin Stack Park. [*remember* + gerundial *-ing* clause]
- Non-variationist diachronic perspective (e.g. Fischer 1995; Fanego 1996; Los 2005; Rohdenburg 2006)

2. Research Objectives

Research Scope

6

- Synchronic cross-dialectal approach to verb complementation
- Corpus analysis with matrix verbs *remember*, *regret* and *deny*
- Effect of dialect and language-internal predictors on complement choice

3. Data Extraction & Sorting

International Corpus of English (ICE)

8

- c. 1 million words per variety (Canada, Great Britain, Hong Kong, India, Ireland, Jamaica, New Zealand, the Philippines, and Singapore)
- Common design for all sub-corpora
- Genre- and mode-balanced
- **Data extraction:** all instances of lemmas *remember*, *regret*, and *deny* followed by a subordinate clause

Relevant Observations

9

- I **remember** that my great-grandfather died just one year before our journey to Hong Kong. [*remember* + *that*-clause]
- But I **remember** seeing this guy with long hair anyway running up and down Austin Stack Park. [*remember* + gerundial *-ing* clause]
- We **regret** the equipment was not functioning properly at the time of the procedure. [*regret* + *zero*-clause]
- However, we **regret** to hear that you are no longer interested to represent us further in this case . . . [*regret* + *to*-infinitive clause]
- Mr. Singh **denied** that there is any rift in the Janata Dal on the question of the party president's election. [*deny* + *that*-clause]
- They all **deny** attempting to murder Harry Mundy or wounding him . . . [*deny* + gerundial *-ing* clause]

Data Overview

10

Matrix verb	Total query hits	Relevant instances
<i>Remember</i>	1,263	498 (39.4%)
<i>Regret</i>	62	53 (85.5%)
<i>Deny</i>	181	117 (64.6%)
Total	1,506	668 (44.4%)

4. Parameters of Analysis

Model Predictors

12

- i. Dialect
- ii. Meaning of complement clause (CC) verb
- iii. Animacy
- iv. Voice of CC verb
- v. Intervening material in words

Meaning of CC Verb

13

- Situation type expressed at VP level of CC (Vendler 1967; Depraetere & Langford 2012: 139–43)
 - . . . Capital Markets emphatically denied the company **had sold or was looking to sell** its stake. [finite CC ‘action’ verb]
 - I remembered that Narayan **was** clumsy in everything [finite CC ‘state’ verb]
- I remember Fisher **talking** to us about him. [non-finite CC ‘action’ verb]
- . . . he denied **not having** a PhD. [non-finite CC ‘state’ verb]

Animacy

14

- Subject of the superordinate clause (controlled non-finite clauses) or subordinate clause (finite clauses and non-finite clauses with an expressed subject) (Zaenen et al. 2004: 120–2; Rosenbach 2006: 105)
 - And you remember **she**'s completing a paper that was talking about education . . . [subordinate animate subject of a finite CC]
 - . . . Ryan denied that **it** was his. [subordinate inanimate subject of a finite CC]
 - . . . **Serafin Cuevas** denies having said any of these. [superordinate animate subject of a controlled non-finite CC]
 - And I remember **the smoke** coming up. [subordinate inanimate subject of a non-controlled non-finite CC]

Voice of CC Verb

15

- **Cognitive complexity principle:** “In the case of more or less explicit grammatical options the more explicit one(s) will tend to be favored in cognitively more complex environments” (Rohdenburg 1996: 151)
- Passive-voice constructions
 - more cognitively complex than active-voice (e.g. Atkinson et al. 1988: 105–6; Givón 1990: 957–8)
 - likely to favor finite complementation (Rohdenburg 1996: 166–8)
- Well, as long as she remembers that I’m the guy that likes to play music, she’s there. [finite CC verb in active voice]
- We remember **having been cared for** when we were young, . . . [non-finite CC verb in passive voice]

Intervening Material in Words

16

- Number of lexical items between matrix verb and non-finite CC verb or finite complementizer
- **Distance principle:** the more elements between two constituents, the more likely the grammatically explicit variant (e.g. Kilby 1984: 175–6; Rohdenburg 1996: 159–60)
 - I can **remember** as a school girl in the nineteen fifties **being advised** to listen to the radio . . . [8 words separating the matrix verb and non-finite CC verb]
 - Rita also **regrets** at this moment **she** only applies the job . . . [3 words separating the matrix verb and finite complementizer]

5. Corpus Results

Frequency Distributions

18

Matrix verb	Finite	Non-finite	Total
<i>Remember</i>	234 (47%)	264 (53%)	498 (100%)
<i>Regret</i>	24 (45.3%)	29 (54.7%)	53 (100%)
<i>Deny</i>	95 (81.2%)	22 (18.8%)	117 (100%)
Total	353 (52.8%)	315 (47.2%)	668 (100%)

- **Success:** finite, **failure:** non-finite
- **Default categorical values:** dialect = ‘Canada’, meaning of CC verb = ‘action’, animacy = ‘animate’, voice of CC verb = ‘active’
- **Model statistics:** $\chi^2 = 206.77$, $df = 12$, $p < 0.001$

Language-External Predictor

19

Dialect	Wald statistic	<i>P</i> -value
Strong association with finite complementation		
Hong Kong	4.62	< 0.001
Jamaica	3.56	< 0.001
The Philippines	2.45	= 0.014
Singapore	2.33	= 0.019
Weak association with finite complementation		
India	1.68	= 0.092
Ireland	0.65	= 0.516
Great Britain	0.55	= 0.581
Weak association with non-finite complementation		
New Zealand	-1.58	= 0.115

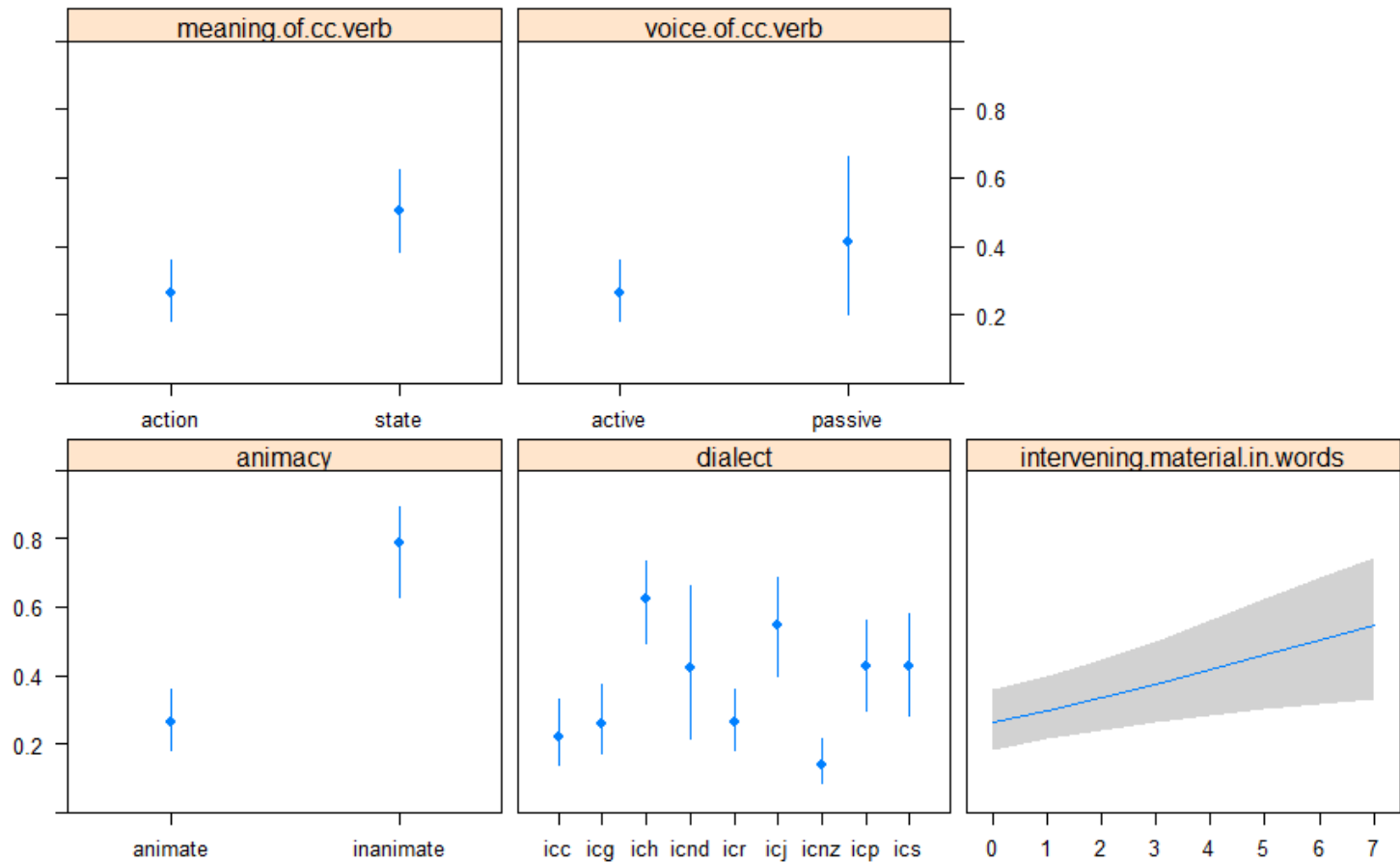
Language-Internal Predictors

20

Meaning of CC verb	Wald statistic	<i>P</i> -value
Strong association with finite complementation		
Stative	5.25	< 0.001
Animacy	Wald statistic	<i>P</i> -value
Strong association with finite complementation		
Inanimate	6.72	< 0.001
Voice of CC verb	Wald statistic	<i>P</i> -value
Weak association with finite complementation		
Passive	1.43	= 0.153
Intervening material in words	Wald statistic	<i>P</i> -value
Strong association with finite complementation		
One-unit increase	2.68	= 0.007

Predictor Overview

21



6. Conclusion

Summary

23

- **Dialect:** all varieties (except New Zealand) correlate with finite complementation to varying degrees
- **Meaning of CC verb:** non-dynamicity favors finite pattern
- **Animacy:** strongest predictor of response outcome
- **Voice of CC verb:** passive is only weakly associated with finite complementation (against presumed correlation with explicit variant)
- **Intervening material in words:** the larger the syntactic distance, the more likely the finite pattern (consistent with ‘distance principle’)

Acknowledgment

24

- This research was conducted at the University of Leuven as part of the project *Exploring probabilistic grammar(s) in varieties of English around the world* funded by an Odysseus grant of the Research Foundation Flanders (FWO) (grant #G.0C59.13N)
- Special thanks to Benedikt Szmrecsanyi for his valuable feedback on the annotation scheme

References

25

- Atkinson, Martin, David Kilby & Iggy Roca. 1988. *Foundations of general linguistics*, 2nd edn. London: Unwin Hyman.
- Cuyckens, Hubert, Frauke D'hoedt & Benedikt Szmrecsanyi. 2014. Variability in verb complementation in Late Modern English: Finite vs. non-finite patterns. In Marianne Hundt (ed.), *Late Modern English syntax in context*. Cambridge: Cambridge University Press, 182–203.
- De Smet, Hendrik. 2013. *Spreading patterns: Diffusional change in the English system of complementation*. Oxford: Oxford University Press.
- Depraetere, Ilse & Chad Langford. 2012. *Advanced English grammar: A linguistic approach*. London: Continuum.
- Fanego, Teresa. 1996. The development of gerunds as objects of subject-control verbs in English (1400–1760). *Diachronica* 13, 29–62.
- Fischer, Olga. 1995. The distinction between to and bare infinitival complements in Late Middle English. *Diachronica* 12, 1–30.
- Givón, Talmy. 1990. *Syntax: A functional-typological introduction*, vol. 2. Amsterdam/Philadelphia: John Benjamins.

References

- Kilby, David. 1984. *Descriptive syntax and the English verb*. London: Croom Helm.
- Los, Bettelou. 2005. *The rise of the to-infinitive*. Oxford: Oxford University Press.
- Rohdenburg, Günter. 1996. Cognitive complexity and increased grammatical explicitness in English. *Cognitive Linguistics* 7, 149–82.
- Rohdenburg, Günter. 2006. The role of functional constraints in the evolution of the English complementation system. In Christiane Dalton-Puffer, Dieter Kastovsky, Nikolaus Ritt & Herbert Schendl (eds.), *Syntax, style and grammatical norms: English from 1500–2000*, 143–66. Bern: Peter Lang.
- Rosenbach, Anette. 2006. Descriptive genitives in English: A case study on constructional gradience. *English Language and Linguistics* 10(1), 77–118.
- Vendler, Zeno. 1967. Verbs and times. In Zeno Vendler (ed.), *Linguistics in philosophy*, 97–121. Ithaca, NY: Cornell University Press.
- Zaenen, Annie, Jean Carletta, Gregory Garretson, Joan Bresnan, Andrew Koontz-Garboden, Tatiana Nikitina, Mary Catherine O'Connor & Tom Wasow. 2004. Animacy encoding in English: Why and how. In Bonnie Webber & Donna Byron (eds.), *Association for Computational Linguistics (ACL)* 42, 118–25. Barcelona, Spain.