

The Empty Root in Cebuano and Kavalan: A Cognitive Perspective

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Abstract

During our fieldwork we found a peculiar linguistic form which occurs in naturally spoken data, but never in elicited data. This small form is in itself semantically empty outside of the discourse, yet in the context, it can be fitted into any syntactic slot and inflected or derived with appropriate morphological affixations accordingly. In other words, when attached with affixation, it can be used as a verb, noun, adjective, or adverb. In 1996, Rubino also reports a similar phenomenon in Ilocano discourse. He interprets such an empty root with appropriate morphological frame as a means of morphological integrity and thus can be evidence that the planning and production occurs at morphemic level.

By investigating narrative and conversation data in both Cebuano and Kavalan, we also found that the distribution and functions of this empty root are far more complicated than what has been reported in Rubino (1996). Also, we attempt to provide a cognitive explanation to such a cross-linguistic phenomenon. Eventually, we hope to demonstrate that meanings are negotiated and thus emergent from actual use.

Key words: grammaticalization, semantically empty root, deixis, negotiated meaning, cognitive explanation

1. Introduction

The motivation behind this paper is simple. During our fieldwork, we found that there is a particular linguistic form, i.e., *iza* in Kavalan and *ku'an* in Cebuano. This particular form occurs in naturally spoken texts, but never in elicited data. When we asked our informants what this word meant, most of the time, their first reactions were that, “Well, there is no such a word in our language.” However, when we read the whole sentences extracted from the naturally spoken data, some of them would understand it, but they still could not tell what exactly this word means. At best, some of them would reply with such uncertain answers as ‘something, someplace, or some things known to the speaker and the hearer’, i.e., the speech act participants. As shown in Excerpts (1) to (3) below, this particular linguistic form is in itself semantically empty outside of the discourse context. And interestingly enough, we found that this particular form can be fitted into any syntactic slot and inflected or derived with appropriate morphological affixations accordingly. The following examples may give a better illustration:

(1) Kavalan (Frog-imui) ¹

→ 154. ... tangi m-zaqis qaniau ta==iza-an u,_
 now AF-climb.up 3PL.NOM LOC-IZA-LOC or
 ta babaw na paRin, /
 LOC above GEN tree

‘They climbed up to IZA (somewhere), or the top of a tree.’

(2) Kavalan (Frog-imui)

→ 13 ... (0.9) ngid=ti qa==iza, \
 almost=PFV QA-IZA
 → 14 ... qa-zukat pasazi ta-peRasku-an. \
 QA-go.out toward.here LOC-bottle-LOC

¹ The Abbreviations used in this study are listed below:

(a) special phonological symbols:

‘ glottal stop

(b) **AF**: Agent Focus; **PF**: Patient Focus; **LF**: Locative Focus; **RF**: Referential Focus; **IF**: Instrumental Focus; **BF**: Benefactive Focus; **NOM**: Nominative Case; **GEN**: Genitive Case; **DAT**: Dative Case; **LOC**: Locative Case; **ASP**: Aspectual marker; **PFV**: Perfective; **PROG**: Progressive; **DET**: Determiner; **NEG**: Negation; **PN**: Proper Noun/Personal Name; **PRON**: Pronoun; **CAU**: Causative Prefix; **RED**: Reduplication; **FS**: False Start; **INT**: Interjection; **LNK**: Linker; **FIL**: Pause Filler; **DM**: Discourse Marker.

(c) Symbols for discourse coding: based on the Du Bois et al. (1993) system.

[]	speech overlap	--	truncated utterance
:	speaker identity	.	final intonation
,	continuing intonation	\	falling pitch
/	rising pitch	_	level pitch
^	primary accent	...(N)	long pause
...	medium pause	..	short pause
==	lengthening	(0)	latching
@@	laughter		

(d) The glossing rules used in this paper are mostly based on *Leipzig Glossing Rules* (2004 version) from <http://www.eva.mpg.de/lingua/files/morpheme.html>.

2. A Brief Sketch of Kavalan and Cebuano

2.1 Cebuano

Cebuano, a predicate-initial and a Meso-Philippine language (Mosley & Asher 1994), is one of the major languages in the Philippines, spoken as a first language by approximately a fifth of the total population, mainly on the central Visayan islands of Cebu, Bohol, Negros, Leyte, and on the northeastern half of Mindanao. It is spoken by the rest of the population of the Visayas and Mindanao areas as a second language. Cebuano is characterized by a highly developed focus system, common in Philippine-type languages. Case Marking in Cebuano is shown in Table 1. Oblique here would include the non-topical argument in an AF clause (i.e. object marker) and Instruments.

Table 1 Cebuano case markers (Himmelman 2005)

	Personal name marker		Non-personal phrase marker
Nominative	<i>si</i>	Specific (article)	<i>ang</i>
Possessive	<i>ni</i>	Oblique specific	<i>sa</i>
Dative	<i>kang</i>	Oblique non-specific	<i>ug</i>

Cebuano clauses have a loosely-organized syntactic structure in discourse; there is a moderate frequency of non-overt arguments. Based on the count of two conversational texts totaling 55 minutes, the lone argument in AF clauses is missing 43 percent of the time. In PF clauses, one argument is non-overt in 57 percent of the total numbers of clauses and both arguments are missing 13 percent of the time. The Cebuano data include five face-to-face conversations between acquaintances with a total length of 2 hours, 26 minutes and 53 seconds.

Like most Austronesian verbs, the Cebuano verb is composed of a verb root and an affix, which may denote focus, tense, mood, and aspect. As observed in our data, in verbs, the trouble source almost always occurs on the verb root. In this case, the speaker may recycle the prefix, as in (4), or use a place holder strategy instead of recycling the prefix, as in (5). Placeholders are particles used to keep a turn from being taken by another party, while the speaker is in the process of word search. Placeholders particles in Cebuano include semantically empty words, such as *ku'an* and *kanang*.

(4) recycling of verbal prefix

pag-thirty-plus =*na* =*ka*=/
when-thirty-plus PFV 2SG.NOM

lisod =na =daw **mag-buntis-** **mang-anak**
 difficult PFV EVID AF-get.pregnant AF-give.birth
 ‘if you’re already more than thirty, it’s difficult to get pregnant- to give birth.’

(5) use of placeholder strategy

J *didto* =na sa manila trabaho =na =ko *didto*
 there PFV LOC PN work PFV 1SG.NOM there
 L *nag-trabaho* ...di di wa =na =diay =ka *didto*
 AF-work DM DM NEG PFV EVID 2SG.NOM there
nag-kuan- **tugpo**
 AF-PH reside
 J there in Manila, I was working there already.
 L working, ...then- then you’re not *kuan* residing there (in Cebu) anymore?

2.2 Kavalan

Kavalan is a sinicized Austronesian language in Taiwan. It is now spoken by fewer than one hundred people, who mainly inhabit Hsinshe Village, Hualien Prefecture and Changyuan Village, Taitung Prefecture. Kavalan, a predicate-initial language, demonstrates focus attrition (cf. Shibatani 2005). Only the AF and LF forms of the verb remain; the *-an* form is used overwhelmingly as PF, while RF is sporadically seen. The case marking system and pronominal system are shown in Table 2 and Table 3, respectively. The main difference between the two dialects, namely, the Changyuan Dialect and Hsinshe Dialect, lies in phonology. Our informants speak the Hsinshe Dialect.

Table 2 Case Marking System in Kavalan (cf. Chang 2000:68)

	Nominative	Accusative/Oblique	Genitive	Locative
Common noun	ya/a	tu	na	ta...an (in/on/at) sa- (to) maq- (from)
Personal Name Proper Name	ya/a	tu	ni	...an

Table 2 Personal Pronominal System in Kavalan (cf. Chang 2000:84)

	Number		Bound		Free Form			
			Nom	Gen	Nom	Acc	Loc	Poss
1 st	Singular		=iku	-ku	aiku	timaiku	timaiukuan tamaiku	zaku
2 nd			=isu	-su	aisu	timaisu	timaisuan tamaisu	zasu
3 rd			---	-na	aizipna	timaizipana	tamaizipana	zana
1 st	Plural	Incl.	=ita	-ta	aita	timaita	timaitaan tamiata	zaita
1 st		Exc.	=imi	-niq	aimi	timaimi	timainian tamaimi	zaimi
2 nd			=imu	-numi	aimu	timaimu	timaimuan tamaimu	zaimu
3 rd			---	-na	qaniau	qaniau	qaniauan	zana

Our Kavalan data consist of 4 pear stories, 4 frog stories, and two face-to-face conversations totaling about sixty minutes.

3. The Functions and Distribution of the Empty Root

Many Philippine languages employ a mechanism, i.e., the use of an empty root, to specify the required case frame of any given idea without having immediate access to the lexical root. This empty root refers to the *kua* in Ilocano and *ku'an* in Cebuano. Such a strategy is also found in one Formosan language, i.e., *iza* in Kavalan. As pointed out by Rubino (1996), the empty root *kua* in Ilocano is a versatile element of the Ilocano language and can be used in many grammatical constructions as a substitute for words of any syntactic form. Basically, Rubino regards this empty root as a morphological strategy that enables the speaker to replace a root that is not available for production simultaneously with affixation, or to replace any given thought of any morphological complexity.

By investigating narrative and conversation data in both Cebuano and Kavalan, we also found that the distribution and functions of this empty root are far more complicated than what has been reported in Rubino (1996). It is used as a searching strategy, for not only word searching but also sentential structure searching.

3.1 Word searching

3.1.1 Searching for a verb in both AF and NAF construction, as shown in (6) and (7), respectively.

(6) frog-imui

- 13 ... (0.9) ngid=ti **qa=-iza,** \
 almost=PFV QA-IZA
 14 ... qa-zukat pasazi ta-peRasku-an.\
 QA-go.out toward.here LOC-bottle-LOC
 ‘It was about to IZA...to come out of the bottle.’

(7) frog-imui

- 30 ... (0.8) **iza-an=na=ti** na=,\
 IZA-LF=3SG.GEN=PFV GEN
 31..wasu a yau peRasku ‘nay ni-qazuan-an na ’nay biat,\
 dog LNK that bottle that NI-fill-NMZ GEN that frog
 32...(0.9) isis-an-na=ti na wasu ’nay, /
 lift-LF-3SG.GEN=PFV GEN dog that
 ‘The dog lifted the bottle, in which the frog was put.’

3.1.2 Searching for a location

(8) frog-imui

- 58 ... (1.7) nani yau sunis a zau, \
 DM EXIST child LNK this
 59 ... t<m>ayta tu==, /
 <AF>see OBL
 60 ... (1.6) tu biat a yau **ta-iza-an**
 OBL frog LNK that LOC-IZA-LOC
ta=-iza-an u, \
 LOC-IZA-LOC or
 61 ..ta=-liap-an na paRin. \
 LOC-below-LOC GEN tree
 ‘The child saw (looked for) frog somewhere... or under the tree.’

3.1.3 Searching for a noun

(9) frog-imui2

67. ... (0.9) tu==,\
 DM
 68. ... (2.4) Rayngu-an-na sayza tu==(1.1), /
 not.know-LF-3SG.GEN maybe TU
 69. (0) **iza** u .. tu== nianu ‘nay
 IZA or TU what that
 ni-wuzung-an-ku .. zin-na sayza na siRemuq
 NI-shoulder-NMZ-1SG.GEN say-3SG.GEN maybe GEN deer
 a yau nani,\
 LNK that DM
 ‘(The deer) did not know what it shouldered. It may think, “What did I
 shoulder?”’

(10) Kavalan (Pear-buya)

- 39...(0.8) pangmu-an-na=ti,\
 help-LF-3SG.GEN=PFV

- 40... **m-iza** tu== sinsuli-na.\
 AF-IZA OBL plum-3SG.GEN
 ‘helped him IZA (pick) the plums
 41...(0.8) m-isis timaizipana atu==...eh m tu,\
 AF-support 3SG.ACC and FIL FIL FIL
 42..zitinsya-na nani.\
 bicycle-3SG.GEN DM

(11) Kavalan (Frog-buya)

64. ... (0.9) teqez nani._
 <AF>stop DM
 65. ...me-zukat nani.\
 AF-go.out DM
 → 66. ... quRu-na na **iza** na==... siRemuq.\
 head-3SG.GEN GEN IZA GEN deer
 ‘The head of the IZA...of the deer comes out.’

3.2 Sentential Searching

As shown in the following Cebuano example, the empty root can be used as a place-holder, not just for searching for a word, but for the speaker to search for a sentence structure. Note that in Excerpt (12), the Cebuano speaker changes the utterance structure from an AF clause to an existential clause by employing the marker *ku'an*.

(12) Cebuano

- ku'an* =man =to =siya- tung nang-adto mi-g san carlos-
 KUAN PAR that 3SG.NOM when AF-go 1EPL.NOM-LK PN
 → *kanang= nagka- **ku'an** - nay cancer gani*
 FIL AF (FS) KUAN EXIST cancer PAR
 ‘*ku'an*, when we went to San Carlos, em= (he) em=, there was cancer (he had cancer).’

3.3 Discourse marker

The second function of such an empty root is to serve as a discourse marker, as shown in the first *ku'an* in (13), and in (14).

(13) Cebuano

- ***ku'an*** =man =to =siya- tung nang-adto mi-g san carlos-
 KUAN PAR that 3SG.NOM when AF-go 1EPL.NOM-LK PN
kanang= nagka- ku'an - nay cancer gani
 FIL AF (FS) KUAN EXIST cancer PAR
 ‘*ku'an*, when we went to San Carlos, em= (he) em=, there was cancer (he had cancer).’
 ‘He thinks IZA (this way) is easy (easier) to go to the shore.’

(14) Cebuano

- SM na ron sa cotabato wala gyud*
 PN PFV now LOC PN NEG EMPH
 → *pero kung ku'an ha*
 but if KUAN PAR
tung una cotabato ang una-ng naging city kaysa sa davao
 that at.first PN ANG first-LK become city than LOC PN
ug sa general santos m= pero dahil daghan-g muslim
 AND LOC PN FIL but because many-LK PN
 'There's really no SM store in Cotabato, but *ku'an* you know, it was Cotabato that became a city earlier than Davao and General Santos, but because there are many Muslim people there...'

3.4 Deixis-like

Moreover, such an empty root can be used anaphorically, (or as a pseudo-deixis), to refer to some shared knowledge between the speaker and the hearer, which could be some entity (as the location in 15), some activity or some abstract state known to both Speaker/Hearer.

(15) Kavalan (Frog-imui2)

- 24. ... (1.5) *yau=ti .. pasazi ta== ... iza-an*
 EXIST=PFV toward.here LOC- IZA -LOC
 situqaw tu paRin 'nay==, _
 AF.look.up OBL tree that
 25. .. 'nay wasu a yau tayta tu,\
 that dog LNK that <AF>see OBL
 26. ... Rubu-na na==,\
 hive-3SG.GEN GEN
 27. ... turiq a yau,/
 wasp LNK that

'That dog came over IZA (here), looked up at a tree and saw a hive of wasps there.'

(16) KavCon-Earthquake

91. *aiku tayta=ay masang kiya-pama nani,*
 1SG.NOM <AF>see=REL before small-still DM
 '(That's) what I saw before when I was still young.'
 92. *m-rim-zusa azu-ita ryaRicay kwa./*
 F-RIM-two like-1IPL.NOM catch.small.fish DM
 'It was separated into two parts, like when we were catching small fish.'
 → 93. *Ray-baut tu suRuq yau a iza kwa./*
 catch-fish OBL <AF>scoop EXIST LNK something DM
 '(When we were) catching fish by scooping, there was something.'

(17) Kavalan (Frog-buya)

80. ... *zaqis-an-na sa==(1.0)--, /*
 climb.up-LF-3SG.GEN FS
 81. ... (0.9) *azu=ti syurin 'nay zin-ta na, _*
 seem=PFV buoy that say-1IPL.GEN DM

82. ...nani.\

DM

‘There is a tree (trunk) over there; the child thinks the trunk is like a life buoy.’

83. ... (1.2) **iza**, _

IZA

84. ... me-lazyu tu== ...nengi=ti me-lazyu=ti ta-qazqaz-an
 AF-pass DM good=PFV AF-pass=PFV LOC-shore-LOC
 nani zin-na.\
 DM say-3SG.GEN

3.5 Euphemism

Also, it may also be a way to avoid a direct mention of sensitive terms, as in the following Cebuano example (18). Since talking about one’s salary is a sensitive or confidential topic in conversation, the speaker uses *ku’an* as a euphemism marker before the sensitive word *sweldo* ‘salary’.

(18) Cebuano

- L *pila man sad imoha-ng ku’an - ...s=sweldo*
 how.much PAR also 2SG.POSS-LK KUAN salary
- ...*ku’an ra ...dili*
 KUAN only NEG
- J *a wala- dili ku’an confidential*
 PAR NEG NEG KUAN confidential
 L: How much is your er... salary? Only er... er no.
 J: mm... no, it’s not... it’s confidential.

Although this empty root lacks semantic consistency (that is why Rubino acknowledges that it is not yet lexicalized), it is without question that when it is used anaphorically³, some negotiated meaning emerges from the discourse context (cf. Huang 1998) and it thus acquires some semantic content in some uses.

4. Cognitive Explanations

Rubino (1996) explains that such an empty root employed by the Ilocano speaker serves as a device of morphological integrity; in other words, he regards this as a purely linguistic phenomenon. On the contrary, we look for an explanation on the level behind the language itself, i.e., on the language user. To be more specifically, we believe that such a language use is motivated by human cognition.

It is believed that language is such a species-specific capacity that only humans possess, which of course distinguishes *homo sapiens* from other ontogenetically-related species that Darwin believes evolved from the same ancestor. And what does

³ Deixis is also lack of semantic consistency, since a referent differs in different arenas of language use; however, we do not acknowledge deixis as semantically empty (cf. Fillmore 1997; Jackendoff 1983: Chapter 9; Consten 2003; Hansenforf 2003).

language do for us? As Clark (1997:193) points out, one easy but somehow misleading answer is that public language is to communicate ideas, since the most obvious evidence comes from that fact that human beings profit from what others know. And just as a single computer is linked to a network of computers, the link to a network is for us humans primarily provided by language, which is not only a code of communication but also an external memory store (Streeck 1995); and thus it locates one major wellspring of our rather unique kind of cognitive success.

Nevertheless, Clark urges us not to neglect a subtler but equally potent role that language may play: as a tool that alters the nature of the computational tasks involved in various kinds of problem solving. And I believe in its broad sense, problem-solving abilities should include the ability language users possess to detect and modify the errors and solve the problems that occur in all linguistic interactions.

In interaction contexts (the places where Schegloff (1996) believes are the natural environment of language use and where Streeck (1995) believes language comes to life), linguistic structures have to meet with the demands of rapid, open-textual and sometimes risky social situation. And those that can survive best are those highly conventionalized formats; among them, *pre* perhaps is the smallest but the best example (Streeck 1995:108). In their cross-linguistic study on repair, Fox, Makoto & Jasperson also attribute the phenomenon of repair in conversations to various interactional pressures, and they believe that it is managed in languages with vastly different syntactic practices to meet these pressures (1996:188).

Here we believe that the use of the empty root by Cebuano or/and Kavalan speakers is also an interaction-motivated phenomenon: like a ready-for-wear filler, the empty root enables both Cebuano and Kavalan speakers to fulfill their goal and go on with their project even under interactional pressures and when they do not have any candidate in mind.

In the 1930s, Vygotsky, a psychologist, pioneered the idea that use of public language had profound effects on cognitive development. One of his ideas is scaffolded action, i.e., action with the “zone of proximal development.” And action is called “scaffolded” to the extent that it relies on some kind of external support. Such support could come from the use of tools or from exploitation of the knowledge and skills of others; that is to say, scaffolding denotes a broad class of physical, cognitive, and social augmentations—augmentations that allow us to achieve some goal that would otherwise be beyond us. The most common cases are that where a child is temporarily able to succeed at designated tasks only by courtesy of guidance (Vygotsky 1962; Clark 1997). The speech functions so as to guide behavior, to focus attention, and to guard against common errors. In such cases, the role of language is to guide and shape our own behavior; it is a tool for structuring and controlling action,

not merely a medium of information agent.

We would rather believe that language plays a scaffolding role in orienting attention and shaping the re-calling task.

5. Concluding Remarks

In this paper we have demonstrated that this intriguing cross-linguistic phenomenon of using such a semantically-empty root in seemingly unlimited contexts appears to constitute a counterexample to the uni-directionality principle in the grammaticalization theory (cf. Traugott 1989, 1995, 2001, 2004; Traugott & Heine 1991; Traugott & König 1991; Hopeer & Traugott 1993; Sweetser 1988). As proposed in the theory of grammaticalization, there are clines wherein lexical items go through a grammaticalization process to become grammatical items; for instance, nominal clines (nominal adposition > case) and verbal clines (main verb > tense, aspect, mood marker) are staples of grammaticalization theory. The central tenet is the unidirectionality principle, insofar as it predicts that grammatical material will not become lexical (Traugott 1995:1). However, our data show that a particular linguistic form evolves in a totally opposite direction. It starts from a semantically empty root with purely discursual function: word searching (a filler indeed), to discourse marker, and then to a pseudo-deictic term, which acquires some semantic content and refers to some shared knowledge (entity, or activity).

Also, we offer cognitive explanations to such an intriguing phenomenon: cross-linguistically, speakers of different languages employ the same linguistic mechanism in facilitating and scaffolding their verbal communication tasks. Thus, we believe that public speech, inner rehearsal, and the use of written and on-line texts are all potent tools that reconfigure the shape of our cognitive space. Time and again we use words to focus, clarify, transform, offload, and control our own thinking, as Cebuano and Kavalan speakers (and many other Philippine languages speakers as well) use such an empty root in various context of interactions to reach different goals. In this regard, Jackendoff is absolutely right when he suggests that the mental rehearsal of sentences may be the primary means by which our own thoughts are able to become objects of further attention and reflection. Thus understood, language is not a mere imperfect mirror of our intuitive knowledge. Rather, it is part and parcel of the mechanism of reason itself.

References

- Clark, A. 1997. Being there, putting brain, body and world together again. MIT Press.
- Consten, Manfred. 2003. Towards a unified model of domain-bound reference. *Deictic Conceptualisation of Space, Time and Person*, ed. by Friedrich Lenz, 223-248. Amsterdam/Philadelphia: John Benjamins Publishing Co.
- Fillmore, Charles J. 1997. *Lectures on Deixis*. Stanford, CA: CSLI (Center for the Study of Language and Information) Publications.
- Fox, Barbara A., Makoto Hayashi, and Rober Jaspersen. 1996. Resources and repair. Interaction and grammar, ed. by Elinor Ochs, Emanuel A Schegloff, and Sandra A. Thompson, 185-235. Cambridge University Press.
- Hausendorf, Heiko. 2003. Deixis and speech situation revisited: the mechanism of perceived perception. *Deictic Conceptualisation of Space, Time and Person*, ed. by Friedrich Lenz, 249-269. Amsterdam/Philadelphia: John Benjamins Publishing Co.
- Helasvuo, Marja-Liisa. 2001 Emerging syntax for interaction: noun phrases and clauses as a syntactic resource for interaction. *Interactional linguistics*, ed. by Couper-Kuhlen, et al., 25-50. John Benjamins.
- Himmelman, Nikolaus. 2005. The Austronesian languages of Asia and Madagascar: typological characteristics. *The Austronesian Languages of Asia and Madagascar*, ed. by Nikolaus Himmelman and Alexander Adelaar. London: Routledge.
- Hopper, Paul J. 1987. Emergent Grammar. BLS 13:139-157.
- Hopper, Paul J., and Elizabeth Closs Traugott. 1993. *Grammaticalization*. Cambridge, UK: Cambridge University Press.
- Huang, Shuanfan. 1998. Emergent lexical semantics. Selected Paper from ISOLIT-II, ed. by Shuanfan Huang, 129-150. Taipei: The Crane Publishing Co.
- Jackendoff, Ray. 1983. *Semantics and Cognition*. Chapter 9: Semantics of Spatial expressions. Cambridge, MA: MIT Press.
- Jefferson, G. 1990. List-construction as task and resource. *Interaction competence*, ed. by G. Psathas, 63-92. Washington, D.C.: International Institute for Ethnomethodology and Conversation Analysis & University of America Press.
- Maynard, Senko K. 2000. Speaking for the unspeakable: expressive functions of *nan(i)* in Japanese discourse. *Journal of Pragmatics* 32.1209-1239.
- Rubino, Carl. 1996. Morphological integrity in Ilocano: A corpus-based study of the production of polymorphemic words in a polysynthetic language. *Studies in Language* 20(3): 633-666.
- Schegloff, E. A. 1996. Confirming allusions: Toward an empirical account of action. *American Journal of Sociology* 102(1):161-216.
- Shibatani, Masayoshi. 2005. The attrition of the Austronesian focus system. Paper

- presented at Taiwan-Japan Joint Workshop on Austronesian Languages. June 23-24, 2005. Taipei: National Taiwan University.
- Streeck, Jürgen. 1995. On projection. *Social interaction and intelligence*, ed. by E. Goody, 87-110.
- Sweetser, Eve E. 1988. Grammaticalization and semantic bleaching. *Proceedings of the Fourteenth Annual Meeting of the Berkeley Linguistics Society*, eds. by Shelley Axmaker, Annie Jaissner, and Helen Singmaster,, 389-405. Berkeley, CA: Berkeley Linguistics Society.
- Traugott, Elizabeth Closs, and Bernd Heine. (eds.) 1991. *Approaches to Grammaticalization*. Amsterdam: Benjamins, 2 Vols.
- Traugott, Elizabeth Closs, and Ekkehard König. 1991. The semantics-pragmatics of grammaticalization revisited. In Traugott and Heine, eds., Vol.1: 189-218.
- Traugott, Elizabeth Closs. 1995. The Role of the development of discourse markers in a theory of grammaticalization. Paper presented at ICHL XII, Manchester 1995.
- Traugott, Elizabeth Closs. 2001. Legitimate counterexamples to unidirectionality. Paper presented at Freiburg University, October 17. 2001.
- Traugott, Elizabeth Closs. 2004. Exaptation and Grammaticalization. *Linguistic Studies Based on Corpora*, ed. by Minoji Akimoto, 133-156. Tokyo: Hituzi Syobo Publishing Co.

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