Varieties of evidential shift

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Sinn und Bedeutung 19 @ Universität Göttingen September 15, 2014

Evidentiality

Marking types of acquaintance with situation denoted by the sentence; information source in terms of e.g. Aikhenvald (2004) and WALS

- (1) Cuzco Quechua evidential paradigm (Faller, 2002, 3, ex.2a)
 - a. Para-sha-n-mi.
 rain-PROG-3-DIR
 'It is raining, I see.'

[Direct]

b. Para-sha-n-si.
rain-PROG-3-REP
'It is raining, I hear.'

[Hearsay]

c. Para-sha-n-chá.
rain-PROG-3-CONJ
'It must be raining, I gather.'

[Conjectural]

Perspective shift: evidentials

- Root declaratives: speaker
- ullet Complements of attitude verbs: speaker o attitude subject
- (2) St'át'imcets (Matthewson et al., 2008, 45, ex.62b) tsut s-Lémya7 kw sqwemémn'ek ku7 s-Mary say NOM-L. DET pregnant REP NOM-M. 'Lémya7 said that [she was told that] Mary is pregnant'
 - ullet Matrix questions: speaker o addressee
- (3) Cuzco Quechua (Faller, 2002, 230)

 Pi-ta-s Inés-qa watuku-sqa?

 who-ACC-REP Inés-TOP visit-PST2

 'Who did Inés visit?'

 Speaker expects addressee to base their answer on hearsay evidence

Perspective shift: broader view

Configurational: something syntax&semantics need to handle

- Shifted indexicals: very restricted, only in some attitude reports (Schlenker, 1999, 2003; Anand and Nevins, 2004; Anand, 2006; Sudo, 2012; Shklovsky and Sudo, 2014, a.o)
- Logophors: no shift but also sensitivity to syntactically realized perspective (Charnavel, 2012; Pearson, 2013; Sundaresan, 2012)

Contextual: something we can leave to pragmatics

- Expressives, appositives: salient individual (Harris and Potts, 2009, 2011)
- Modals, predicates of taste (if anchored at all to an individual)

Today

Evidentials

Roadmap

- Introduction
- Complements of attitude verbs
 - Perspective vs. scope
 - Typology
 - Conditions
 - Proposal
 - Further issues
- Evidential shift in questions
 - Data
 - Previous accounts
 - Proposal
- Conclusion

Framing the discussion

- theories of evidentiality often reduce shifting to the relative scope of the evidential and attitude verb (Faller, 2002; Matthewson et al., 2008; Murray, 2010; Koev, 2011; Lee, 2013)
 - wide scope: non-shifted reading, speaker-oriented
 - narrow scope: shifted reading, attitude-subject-oriented
- we need to distinguish between the two notions at least on conceptual grounds (in additional to empirical considerations)

Three types

- Languages with syntactically embeddable evidentials fall into three classes:
 - no evidential shift
 - Optional evidential shift
 - obligatory evidential shift
- Evidential shift cannot be contextual: the behavior is not uniform

NB: In some languages, e.g. Abkhaz and Cuzco Quechua, evidentials cannot be embedded under attitude verbs for syntactic reasons (Korotkova, 2013).

Type I: no shift

Languages: Georgian, Bulgarian (dialect reported in Sauerland and Schenner 2007 and Koev 2011)

(4) Georgian

maria pikrobs rom mama mi-s **c'odnia** xuti ena M.NOM think.3SG.PRES that father her-DAT know.**EV** 5 language.NOM 'Maria thinks that her father knew five languages'.

- (i), non-shifted: the speaker was told/infers it.
- (ii), shifted: #Maria was told/infers it.

Continuation "But I know it's not true" is impossible.

Type II: optional shift

Languages: German (Schenner, 2010), Turkish (at least dialect reported in Şener 2011), Bulgarian

- (5) Bulgarian
 - Marija kaza, che reka-ta e pridosh-**l**-a. maria said that river-DET be.3SG rise-**EV**-F 'Maria said that the river has risen'.
 - (i), non-shifted: the speaker was told/infers it.
 - (ii), shifted: Maria was told/infers it.

Type III: obligatory shift

Languages: Japanese, Korean, Standard Tibetan (Garrett, 2001), St'át'imcets (Matthewson et al., 2008)

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(6) Korean (Lee, 2013, 22, ex.27)

Chelswu-nun pi-ka ecey o-∅-te-la-ko

Chelswu-top rain-nom yesterday fall-pres-dir-decl-comp

malha-yess-e.

say-pst-decl

'Chelswu said that it was raining yesterday.'

(i), non-shifted: #the speaker has perceptual evidence.

(ii), shifted: Chelswu has perceptual evidence.
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Modals

- Frequent claim: evidentiality ⊂ epistemic modality (Palmer, 1986; Izvorski, 1997; Matthewson et al., 2008)
- Objection: modals shift when embedded (Hacquard, 2006, 2010; Stephenson, 2005)
- (7) Ptolemy believes that Sun must be turning around Earth but in fact it's the opposite.

Typology of indexicals

Three types of languages:

- No indexical shift: English, French, Russian ...
- Optional indexical shift: Amharic (Schlenker, 1999, 2003), Mishar Tatar (Podobryaev, 2014), Nez Perce (Deal, 2013), Turkish (Özyildiz, 2013)
- Obligatory indexical shift: Matses, Tamil (Sundaresan, 2012), Uyghur (Shklovsky and Sudo, 2014)
- (8) Turkish (Özyildiz, 2013)

 **Doktor [hasta-lan-di-m] de-di doctor sick-PASS-PST-1SG say-PST.3SG (i), non-shifted: 'The doctor said that I got sick.' (ii), shifted: 'The doctor said that the doctor got sick.'

Distribution of embedded evidentials

	'say'	'think'	'know
Bulgarian	\checkmark	*	\checkmark
Georgian	\checkmark	\checkmark	*
German	\checkmark	零	\checkmark
Japanese	\checkmark	零	\checkmark
Korean	\checkmark	零	*
Mbyá	\checkmark	零	*
Tibetan	\checkmark	\checkmark	*
Turkish	\checkmark	\checkmark	\checkmark

Data sources: Bulgarian (Sauerland and Schenner, 2007), Georgian (Korotkova, 2012), Japanese (reportative *soo-da*, Sauerland and Schenner, 2007), German (*sollen*, Schenner, 2009), Mbyá (Thomas forth., Guillaume Thomas p.c.), Tibetan (Garrett, 2001) and Turkish (Şener, 2011) (cf. Sauerland and Schenner, 2007, 14, chart 42)

Distribution of indexical shift

Language Predicate

Aghem say Amharic say

Japanese say, think, consider a.m.o.

Korean person indexicals: say, adv. indexicals: say, think

Mishar Tatar say, think a.m.o.

Navajo say

Nez Perce say/tell, think Slave say, tell, want

Tamil say Telugu say

Turkish say, believe, want, other speech-derived verbs

Uyghur all attitude predicates

Zazaki say

The chart adapted from Sundaresan (2012, 244) (adapted from Anand 2006), with addition of Japanese (Sudo, 2012), Korean (Park, 2014), Mishar Tatar (Podobryaev, 2014), Nez Perce (Deal, 2013), Turkish (Gültekin Şener and Şener, 2011; Özyildiz, 2013)

Not just attitudes?

(9) Turkish

Arkadas-im-a gore, sinav-dan kal-mis-im [Evidentials] friend-1S.POSS-DAT according, exam-ABL stay-REP/PST-1S 'According to my friend, I failed the exam'
(i), non-shifted: I have reported evidence for that.'
*(ii), shifted: My friend has reported evidence for that.

(10) Japanese

Mary-niyoruto, John-ga watashi-o suki. [Indexicals]
Mary-according.to, John-NOM I-ACC like
(i), non-shifted: 'According to Mary, John likes me.'

Potential exception: Bulgarian spored 'according to' can license

(ii), shifted: *'According to Mary, John likes Mary'.

• Potential solution: *spored* only refers to reports and can be an attitude construction in disguise

evidential shift

Core idea

Structural analogies between evidentials and indexicals

- Parallel #1: typology
- Parallel #2: distribution in embedded contexts
- Parallel #3: no shift without an attitude operator



The two should be analyzed along similar lines

A similar idea was first formulated by Sauerland and Schenner (2007)

How to shift indexicals I

Standard Kaplanian semantics: indexicals are special elements sensitive to context, and there is only one matrix context

Main ingredients

- Attitude verbs introduce a new context: a formal object different than sets of propositions
- Shiftable indexicals are able to pick it up
 - Schlenker (1999, 2003):
 - semantics of indexicals is not uniform across languages
 - cross-linguistic variation is in the pronouns: some are rigid and refer to matrix context only (English), some are more flexible and can refer to other contexts (similar treatment in von Stechow 2002)

How to shift indexicals II

- Anand (2006); Anand and Nevins (2004) (refined by Sudo (2012); Shklovsky and Sudo (2014)):
 - semantics of indexicals is uniform across languages
 - some languages have context-overwriting operators, aka monsters in their lexicon that shift everything context-sensitive in their scope
 - cross-linguistic variation stems from whether or not monsters are present in the lexicon

Why monsters

- in Zazaki (Anand, 2006; Anand and Nevins, 2004), Japanese (Sudo, 2012), Korean (Park, 2014) and Nez Perce (Deal, 2013) indexicals within some domain shift together or do not shift at all
- cannot be captured if they all shift independently

How to shift evidentials

- Sauerland and Schenner (2007): a Schlenkerian approach to evidential shift
- Criticism:
 - overgeneration: unable to capture conditioned evidential shift in German: (semi)-factives favour the shifted reading, predicates of doubt and denial favour the non-shifted reading
 - not all constructions and attitude predicates license evidentials
 - no actual parallels in the distribution of indexicals and evidentials
- New proposal: as with indexicals, evidential shift is also done by monsters

Speech verbs

Speech verbs are special in other respects:

- Embedded imperatives (Kaufmann 2014): under say in English, under 'say' and 'propose' in colloquial German, under predicates describing directive speech acts in Korean, Japanese, Slovenian
- Root clause phenomena (Hooper and Thompson, 1973; Heycock, 2005): more likely to be licensed under speech verbs, e.g. distribution of V2 in German
- Discourse adverbials: more likely to appear under speech verbs

Bottom line

- many constructions are able to refer to non-matrix contexts
- they are licensed in similar environments but not any attitude predicate
- our theory needs to account for that in a coherent way, e.g. embedded speech acts (Sundaresan 2012, Krifka forth.)

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Evidentials in questions I

- Evidentials vary a great deal within and across languages, hence different analyzes
- One instance of variation: evidential shift in declaratives
- Interpetations in questions almost do not vary: striking in view of the above observations
- Similarities between evidentials with otherwise not always uniform properties: Cheyenne (Murray, 2010), Cuzco Quechua (Faller, 2002), German (Faller, 2004), Korean (Lim, 2010), St'át'imcets (Matthewson et al., 2008), Tibetan (Garrett, 2001)

Evidentials in questions II

Observation

Evidentials shift in matrix questions: speaker \rightarrow addressee

- (11) Korean (Lim, 2010, 35-36, ex.44)
 - a. John-i na-lul po-te-la [Declarative]
 John-NOM l-ACC see-DIR-DECL
 'Given my perceptual evidence, John saw me.'
 - b. John-i na-lul po-te-nya? [Question]
 John-NOM l-ACC see-DIR-Q
 'Given your perceptual evidence, did John see me?'

Desideratum for a theory

Differentiate indexicals and evidentials despite their commonalities in declaratives

Murray (2010, 2012), based on Cheyenne

The upshot

- Ouestions introduce a new context
- Evidentials unlike pure indexicals can pick it up
- Prediction: indexicals in indexical-shifting languages should be able to shift in questions.
- Prediction not borne out:

Cross-linguistic generalization

Shifty indexicals don't shift in questions, matrix or embedded: Japanese (Sudo, 2012), Korean, Turkish

Shifty indexicals in questions

Turkish personal and adverbial indexicals shift in attitude reports (Özyildiz, 2013) but not in questions

(12) Context: A friend is talking about turnips, I ask:

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sev-er mi-yim? [Personal] like-AOR POLO-COP.15G
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- (i), non-shifted: 'Do I like them?'
- (ii), shifted: *'Do you like them?'
- (13) Context: Natasha is in Paris, Meaghan is Los Angeles. Natasha is talking about Jun but Meaghan does not know him and asks: 'Does he study here?'

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Jun bura-da mi oku-yor? [Adverbial]
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- (i), non-shifted, speaker's 'here': 'Jun studies in LA'.
- (ii), shifted, Natasha's 'here': #'Jun studies in Paris'.

Lim (2010, 2011); Lim and Lee (2012), based on Korean

The upshot: evidentials are monsters

Evidentials manipulate contexts: the author parameter shifts to addressee

- Prediction # 1: If evidentials are monsters, monsters are licensed in questions. Then indexicals in indexical-shifting languages should be able to shift in questions.
 - Prediction not borne out.
- Prediction # 2: If evidentials are monsters, indexicals in indexical-shifting languages should be able to shift in their scope.
 Prediction not borne out.

Shifty indexicals under evidentials

Cross-linguistic generalization

Evidentials do not license indexical shift: Japanese, Korean, Turkish

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Turkish
Context: I spoke to my father ...
(ben) hastalan-<mark>mis-im</mark>
       get.sick-EVID-15G
(i), non-shifted: 'I got sick, I hear'.
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- (ii), shifted: #'My father got sick, I hear'.

Semantics?

Observation

Evidential shift in questions is obligatory: speaker-anchored readings not available

- Current proposals: evidential shift is configurational, governed by semantics
- Contrast: optional shift of expressive content, governed by pragmatics
- But: what would it mean for an evidential to not shift in questions?
 - Rough paraphrase: Given the specific type of evidence I, the speaker, have, tell me whether or not P.
 - Standard pragmatics of questions: sincere inquiries for new information
 - ightarrow Speaker, if sincere, is not aware of evidence they have

Interlude: evidentials are 'de se'

'de se' constraint

Evidentials are obligatorily 'de se': having some type of evidence is a self-ascription; independently noticed by McCready (2011)

- evidentials are licensed in Gettier scenarios where agents are mistaken about their perception
- having evidence is always up to an individual: it cannot be challenged or denied

(15) Georgian

- a. los-anzeles-\(\) i metro-s axal-i haz-i gauxavniat

 LA-in metro-GEN new-NOM line-NOM construct.\(\) 2PL.S.EV

 'They constructed a new metro line in Los Angeles, \(I \) was told'.
- b. #. That's not true, you didn't hear it.

Pragmatics!

- 'de se' constraint: ban on speaker-anchored readings in questions
- no need to additionally restrain semantics
- evidential shift: garden variety of pragmatic shift in questions
- (16) Other things that can be used this way
 - a. Expressives:Did you get the damn job?
 - b. Discourse adverbials:Frankly, when will you finish the paper?
 - c. Certain logophors
 - d. ...and counting.
 - much in line with syntacticized pragmatic account of Speas and Tenny (2003)
 - contra operator-based account of McCready (2007)

Big picture

Interrogative flip

Epiphenomenal and is due to pragmatics

Expected availability and pervasiveness of evidential

shift in questions

Unexpected but explained obligatory evidential shift in questions

With many other things, interrogative flip is optional

• With evidentials, mandatory due to the independent 'de se' constraint

lack of indexical shift in questions

Restating the problem why monsters are not licensed in questions

and under 'ask'?

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Configurational

- Shifted indexicals
- Logophors

Contextual

- Expressives, appositives
- Possibly: modals, PPT

Third type

Evidentials

- configurational in attitude reports
- contextual in questions

Acknowledements

Thank you!

This work has greatly benefited from comments and discussion with Yael Sharvit and Dominique Sportiche, Maria Aloni, Pranav Anand, Lisa Bylinina, Jesse Harris, Vincent Homer, Roumyana Pancheva, Hazel Pearson, Johan Rooryck, Philippe Schlenker, Benjamin Spector, Ed Stabler, Igor Yanovich, and audience at Institut Jean Nicod. I thank my language consultants, and especially Nana Dekanosidze for help with Georgian, Deniz Özyildiz for help with Turkish, Roumyana Pancheva and Vesela Simeonova with Bulgarian, Yasutada Sudo wih Japanese, and Yun Kim and Suyeon Yun with Korean. All errors are mine.

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