Societas Linguistica Europaea, 56<sup>th</sup> Annual Meeting

National and Kapodistrian University of Athens, 30 August 2023

## Evidential strategies in narrative discourse: a contrastive approach

Denys Teptiuk & Tatiana Nikitina

(University of Tartu & CNRS-LaCiTO)

denys@ut.ee

tatiana.nikitina@cnrs.fr

## Outline

- 1. Introduction.
- 2. Data & Method.
- 3. Results.
- 4. Discussion.
- 5. Conclusions.

## **1. Introduction**

## Introduction

Evidentiality is a grammatical category signaling information source (Aikhenvald 2004).

## (1) Tariana (Arawakan; Brazil) [Aikhenvald 2004: 2–3; highlight added]

- a. Juse irida di-manika-ka
  José football 3sgnf-play-REC.P.VIS
  'José has played football (we saw it)'
- b. Juse irida di-manika-mahka
  José football 3sgnf-play-REC.P.NONVIS
  'José has played football (we heard it)'
- c. Juse irida di-manika-nihka
  José football 3sgnf-play-REC.P.INFR
  'José has played football (we infer it from visual evidence)'

- d. Juse irida di-manika-sika
  José football 3sgnf-play-REC.P.ASSUM
  'José has played football (we assume this on the basis of what we already know)'
- e. Juse irida di-manika-pidaka
  José football 3sgnf-play-REC.P.REP
  'José has played football (we were told)'

## Introduction

Evidentiality is a grammatical category signaling information source (Aikhenvald 2004); includes six possible information sources:

I. Visual;

II. Nonvisual sensory (auditory, olfactory, tactile, gustatory);

III. Inference;

IV. Assumption;

V. Reported;

VI. Quotative (Aikhenvald 2021: 14).

## Introduction

Five of the six information sources are associated with five senses: SIGHT, HEARING, TOUCH, TASTE AND SMELL.

I. Visual: SIGHT;

II. Nonvisual sensory: HEARING, SMELL, TOUCH, TASTE;

III. Inference: any (+ PROPRIOCEPTIVE FEELING);

V. Reported: primarily HEARING (but also SIGHT);

VI. Quotative: primarily HEARING (but also SIGHT).

## Introduction

## Table 1. The grouping of semantic parameters in grammatical evidentiality systems (Aikhenvald 2021: 14)

		1. Visual	11. Nonvisual sensory	111. Inference	IV. Assumption	v. Reported	v1. Quotative		
2 choices	Aı	first	hand		non-firstl	nand	and		
	Aı	firsthand		-	non-firsthand				
	A2	<evidentiall< td=""><td>y unmarked&gt;</td><td></td><td>non-firstl</td><td>nand</td><td></td></evidentiall<>	y unmarked>		non-firstl	nand			
	A <sub>3</sub>		<evidentia< td=""><td>lly unmarked&gt;</td><td></td><td>rep</td><td>orted</td></evidentia<>	lly unmarked>		rep	orted		
	A4	<evidentially unmarked&gt;</evidentially 	auditory		<evidentially td="" u<=""><td colspan="3">unmarked&gt;</td></evidentially>	unmarked>			
3 choices	Bı	dii	rect	inf	erred	reported			
	B2	visual	nonvisual	inferre		d			
	B3	visual	nonvisual	<no term=""></no>		reported			
	B4	<evidentially unmarked&gt;</evidentially 	nonvisual	inferred		rep	orted		
	B5		<evidentia< td=""><td>lly unmarked&gt;</td><td></td><td>reported</td><td>quotative</td></evidentia<>	lly unmarked>		reported	quotative		
	B6	<evidentially unmarked&gt;</evidentially 	nonvisual	<evidentially unmarked=""></evidentially>		reported			
4 choices	Cı	visual	nonvisual	inf	erred	rep	orted		
	C2	direct (or e	experiential)	inferred	assumed	rep	orted		
	C3	direct (or e	xperiential)	inferred		reported	quotative		
	C4	visual	nonvisual	inf	erred	<evidential< td=""><td>ly unmarked&gt;</td></evidential<>	ly unmarked>		
	C5	direct	inferred	ass	umed	<evidential< td=""><td>y unmarked&gt;</td></evidential<>	y unmarked>		
	C6	<evidentiall< td=""><td>y unmarked&gt;</td><td colspan="2">inferred</td><td>reported</td><td>quotative</td></evidentiall<>	y unmarked>	inferred		reported	quotative		
5 choices	Dı	visual	nonvisual	inferred	assumed	rep	orted		

Languages differ with respect to the possibility to express evidentiality via grammatical means; lexical means are probably universal:

- (2) a. *We saw* that John was playing football. [visual]
  - b. We heard that John was playing football [auditory or reported]

c. *Apparently, John was playing football*. (His boots and ball are missing.) [inference]

d. *Apparently, John was playing football*. (He has a training every Monday and Wednesday). [assumption]

e. Sue was like: "John was playing football." [quotative]

## Introduction

The 'richness' of the grammatical system of evidentiality can be influenced by extralinguistic factors:

- size and closeness of community (Aikhenvald 2004: 359; Bernárdez 2017: 452);
- cultural practices (Michael 2015; also see Aikhenvald 2004: 359);
- ecology: "[d]ifficulties in accessing the world around enhance the probability of developing evidentials" (Bernárdez 2017: 452).

## Introduction

"Grammars code best what speakers do most" (Du Bois 1987: 851).

## Introduction

"Grammars code best what speakers do most" (Du Bois 1987: 851).

## **Our hypothesis:**

The use of evidentials could correlate with speakers' sensitivity to information source and its more frequent mention in discourse (cf. Slobin's 1987 'Thinking for Speaking' hypothesis).

"Grammars code best what speakers do most" (Du Bois 1987: 851).

**Our hypothesis:** the use of evidentials could correlate with speakers' sensitivity to information source and its more frequent mention in discourse (cf. Slobin's 1987 'Thinking for Speaking' hypothesis).

**Prediction A:** speakers of languages with grammatical encoding of information source should refer to this source more often in texts, using lexical or grammatical means;

**Prediction B:** reference to information source in texts should reflect universal extralinguistic biases or depend on extralinguistic factors.

## Aims:

- investigate how sensory information source is coded in traditional narratives in five languages with differences in evidential systems;
- compare the way different sources of sensory information are represented in discourse;
- explore how linguistic and extralinguistic factors can explain the differences observed.

**Primary focus:** visual and auditory perception.

**Excluded:** verbal information sources (oral and written) as connected to auditory and visual perception by default.

## **Research questions:**

1. Is sensory perception of a particular type more prominent in languages with specialized grammatical evidential(s) at the lexical level than in languages without specialized evidential(s)?

2. Is sensory perception of a particular type overall more prominent in traditional narratives of languages with grammatical evidential(s) as compared to languages without them?

3. What (else) may cause differences in the distribution of evidential strategies across languages?

4. Are there any universals across languages with respect to the encoding of sensory information source?

## 3 Siberian languages:

- Udihe (Tungusic): grammaticalized mirative evidential particles marking visually and auditorily perceived information (Nikolaeva & Tolskaya 2001: 461 – 462):
- (3) Udihe (Nikolaeva & Tolskaya 2001: 463)

ŋene:-ni	nada-zi	käu-käu	maga:-ti
go.pst-3sg	seven-INST	all-all	kill.pst-3pl
gune	bube		

PTCL.REP PTCL.MIR



'She went (and **saw** that) all seven (of them) were killed.' (K 177)

## 3 Siberian languages

## O Udihe (Tungusic);

• Nganasan (Samoyedic): auditory evidential (Gusev 2007):

- (4) Nganasan (Gusev 2007: 420)
- a. Noguta-munu-ti mii?a
  approach-AUD-3DU here
  'It is heard, those two are approaching.'
- Ma-t*anu hihia koli ńeluaj-müńü-t'ü* tent-LOC cooked fish smell-AUD-3sG
   'It smells of cooked fish in the tent.'



## 3 Siberian languages:

- O Udihe (Tungusic);
- Nganasan (Samoyedic);
- Selkup (Samoyedic): auditory evidential mostly no longer in use, latentive mood with visual and auditory information (Urmančieva 2014):
- (5) Selkup (Urmančieva 2014: 73)

Monti	mat	ńeńa-m <del>i</del>	aj		
PTCL.INFER	1sg	sister-1	also		
n <del>i</del> mt <del>i</del>	tap	<del>iti-nti-</del> Ø			
here	she	hang-LATENT	-s <b>3</b>		
'As I can see, my sister is hanging here, too					



## Introduction

## 2 languages with no grammatical encoding of information source:

o Chuvash (Turkic)



## Introduction

## 2 languages with no grammatical encoding of information source:

o Chuvash (Turkic);

 $\circ$  Wan (Mande).



## 2. Data & Method

## Data

## Table 2. Data sources and number of narratives analyzed

Language	Data source	Narratives
Nganasan	Nganasan Spoken Language Corpus (Brykina et al. 2018)	61
Selkup	INEL Selkup Corpus (Brykina et al. 2020)	37
Udihe	SpeechReporting Corpus (Perekhvalskaya 2021); Udihe Folk Tales (Nikolaeva et al. 2002)	49
Chuvash	SpeechReporting Corpus (Nikitina 2022)	16
Wan	SpeechReporting Corpus (Nikitina in prep.)	82

## Method

## **Procedure:**

- extract reference to information source from traditional narratives, including all possible scenarios of sensory perception;

- annotate for mode of perception and means of encoding reference to information source;

- compare different types of reference and modalities of perception across the languages.

## Method

## **Encoding of the sensory information source in texts:**

- 1. Grammatical means
- 2. Lexical means
- 3. Information source implied in context.

4. Imitation of sound (and visual) effects (e.g., by onomatopoeias and ideophones).

## **Grammatical expression of information source**

Grammatical moods expressing **auditory** perception in Nganasan and occasionally in Selkup:

(6) Selkup (Uralic; Western Siberia)

ninšit-tal'naijatü-l'či-kunä.thentwo-ITER.NUMthisguycome-PRF-AUD'Then the second time this boy comes, one hears.'(NEP\_1965\_OrphanBoyAndPanOldMan1\_flk.086)

(7) Nganasan (Uralic; Northern Siberia)

ban-u-?	logia-m <del>i</del> nə?	bənti-ni
---------	--------------------------	----------

dog-EP-PL bark-AUD outside-LOC.ADV

'The dogs are barking, as it is heard.' (TKF\_990819\_SomatuShaman\_flkd.063)

## **Grammatical expression of information source**

## Grammatical moods expressing visual perception:

(8) Selkup (Uralic; Western Siberia)

razbojnig-la	tšaʒa-tdə	atd <del>i</del> (ə)-z'e i		ťära-ttə:	qaj
robber-PL	go-3pl	boat-INSTR and		say-3pl	what
struška-la	(köu-da-ttə)		küu-	ze	tšaːʒi-da-ttə.
scob-pl	flow.quickly-LA	tent-3pl	quic	k.stream-INSTR	go- <b>latent</b> -3pl

'There were robbers passing by in a boat, they said: "What are those wood shavings in the current?..."' (PVD\_1964\_UnfaithfulWifeAndRobbers\_flk.040)

#### (9) Nganasan (Uralic; Northern Siberia)

Mað-ə-mt	i	ani?i-m-tü-batu-gəj	s'iti	s'iði	bəbətən <del>i</del>
tent-EP-ACC.SG.2DU.POSS		big-trl-tr-infer-3du	two.nom	two.gen	bed-LOC
tahariabə	i-t'ü-gəj.				
now	be-prs-3du				

'Apparently, they made a bigger tent, they live separately.' (TKF\_990812\_EvilSpirit\_flkd.673)

## **Grammatical expression of information source**

Grammaticalized evidential particles expressing auditory perception:

(10)Udihe (Tungusic; Eastern Siberia)

Emne	mafa	bua	xo:n-tig	gi-ni ŋene:-ı	ni, j'eu-ke	eme
once	husband	forest	on-lat-	3sg go.past		come
gune	kutututu	ono	gune	agdi	bede.	
EV	INTJ	how	EV	thunder	like	
'Once the old man went to the forest and heard something rattle like						
thunder.' (Nikolaeva et al. 2002: 112)						

## **Grammatical expression of information source**

Grammaticalized evidential particles expressing visual perception:

(11) Udihe (Tungusic; Eastern Siberia)

Zugdi	caa-la-ni ege	e-le-he-ti,	ege-le-he-ni-de
house	behind-LOC-3sG	go_around-sg-pst-3pl	go_around-SG-PST-3SG-FOC
anci,	gune!		
no	EV		
'He wei	nt around the hou	se – nothing there!' (U	dihe_Baskakova_III.04.151)

(12) Selkup (Uralic; Western Siberia)

n <del>i</del> nä	inna	šitä-ja	qənt <del>i</del> -tä	mont <del>i</del>	iːl'e-ča.		
then	up	wake.up-co	dawn-3sg	PTCL.INFER	appear-RFL		
'Then he woke up, [he sees that] it's getting light.'							
(NEP_1965_FoolInSackCoat_flk.065)							

## Lexical expression of information source

Auditory perception: 'hear', 'listen'

(13) Chuvash (Turkic; Central Russia)
pyrt-re-x ilt-ën-et
house-LOC-EMPH hear-REFL-PRS.3SG
'It was audible right in the house.' (Chuvash\_Tam\_acha\_end.097)
(14) Selkup (Uralic; Western Siberia)
sil'či pil'čit qaš üŋul'-di-mpe-ti qaj?
PN hear-TR-DUR-3SG.0 what
'Sylcha Pylcha Kash is listening what is [there].'

(KAI\_1965\_SylchaPylcha1\_flk.083)

## Lexical expression of information source

Visual perception: 'see', 'watch', 'be(come) visible' (= Ngan., Sel. 'appear')

(15) Chuvash (Turkic; Central Russia)

xër patşatit-sapəx-atiçyçpërtç-in-egirl tsargrasp-CV\_COORDlook-PRS.3SGhairunit-POSS\_3-ACC/DAT'The tsar girl takes the hairs and looks at them.' (Chuvash\_Grisha\_start.477)

(16) Nganasan (Uralic; Northern Siberia)

Təndi-t'id'übəəd'ima-tət'ii-?ə,that-ACC.PL.3SGthrow-DRV-INFtent-LATcome.in-PRFn'ini-d'ə-gəjkat'əmi-?ə-gəjbarus'a-ŋgu-mti.elder.brother-DYA-DUsee-PRF-3DUdevil-DIM-ACC.SG.3DU.POSS'Having thrown it, he entered the tent, the brother and the sister saw their littledevil.' (POJ\_71\_Barusi\_flkd.053)

## Information source implied

Verbs expressing sound production  $\Rightarrow$  hearing implied

(17) Wan (Mande; Côte d'Ivoire)

bégbóglólɔ̄gɔ́bébɔ̀lèégnùthenhyenalaughthenbirdDEFfly'Then the Hyena laughed, and the bird flew away.'(Wan\_Hyena\_and\_his\_ugly\_hide.009)

(18) Selkup (Uralic; Western Siberia)

Kana-ttopipč'iqil-nɔː-t,kanakläq-al'-n'a.dog-GENleg.ACCstep-co-3PLdogdog.yelp-INCH-CO

(Ira nıl' nül'č'a, n'omal' porqi ira mita.)

'They [the sons] stepped on the dog's foot, the dog began to **yelp**. (The old man awakened, the Hare Parka old man.)' (NEP\_196X\_HareParka2\_flk.117)

## **Information source implied**

## 'Footprints', 'traces' $\Rightarrow$ seeing implied

#### (19) Wan (Mande; Côte d'Ivoire)

Cέ è glā ΖŌ è nē ē bī é tāííí child 3sg 3sg foot DEF took until came DEF trace 'He went [and] followed his child's footprints.' (The\_Child\_and\_the\_Caterpillar.035)

### (20) Nganasan (Uralic; Northern Siberia)

Əm-ə-ni-ka-a-mən <del>i</del>			d'oðü-l'	i-?i-ðə,	таа	
this-ADJ-LOC	PRON-PRM	LZ-ADJZ-PROLAT	walk.FRG	q-inch-prf-3sg	what	
əmt <del>i</del> -rə	tə?,	səd'əəraaðu	ı	sɨr-a-jt'ü-tu.		
this-2sg.pos	S PTCL	trace-LIM-3sc	G.POSS	white-EP-DRV-PRS		
'He started going further away from the tent, what is this, there's only a trac					there's only a trace	
shows white.' (ChND_080722_TwoFriends_flk.028)						

## **Information source implied**

### Reported speech and thought expressing auditory or visual perception:

(21) Selkup (Uralic; Western Siberia)

oriče. na tätti-p pontar kol'-alti-ptä:-gak qusa qaj earth-ACC environs turn-TR-AN-LOC.1SG.POSS this PTCL what say-US-LAT place: "Come on, who is 'He walked around this speaking there?" (KAI 1965 SylchaPylcha1 flk.026)

(22) Nganasan (Uralic: Northern Siberia) Tahariaa munu-ntu tahariaa: S'ejmi-rbi?ia-güa-t'ə tə?. say-prs.3sg eye-AUG-EMPH-PL.2SG.POSS PTCL now now maa-qəl'it'ə-qətə totu-lagu-?. nanuə-mən<del>i</del>. Tu what-EMPH-ABL real-prolat fire spark-sim-pl "(That one] says: "Oh wow, your eyes, you know, they are like fire sparks." (MVL Hugabtadja flks.346).

## **Sound imitation**

(23) Wan (Mande; Côte d'Ivoire)

yàá	dōý	kpló-kplá-kpló kpló-kplá-kpló	сīூ	pānī	
3sg+cop	right.away	IDPH IDPH	rain	dirt	
é tā					
DEF on					
'[The Hyena woke up from his sleep] – clomp-clomp-clomp! – [he went					

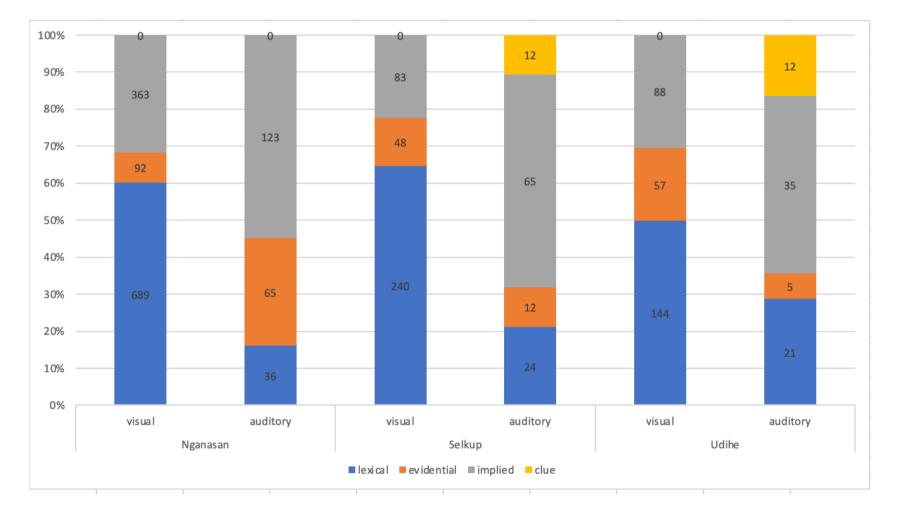
running] through the mud! (Wan\_Hyena\_and\_his\_ugly\_hide.021)

## 3. Results

## **Results: Roadmap**

- 1. Sensory perception in the three Siberian languages.
- 2. Comparison with Chuvash and Wan.

## Figure 1. Sensory perception in Nganasan, Selkup, and Udihe.



## **Sensory perception in the three Siberian languages**

In all three languages:

- Visual perception prevails over auditory;
- Visual perception: lexical > implied > evidential;

**Sensory perception in the three Siberian languages** 

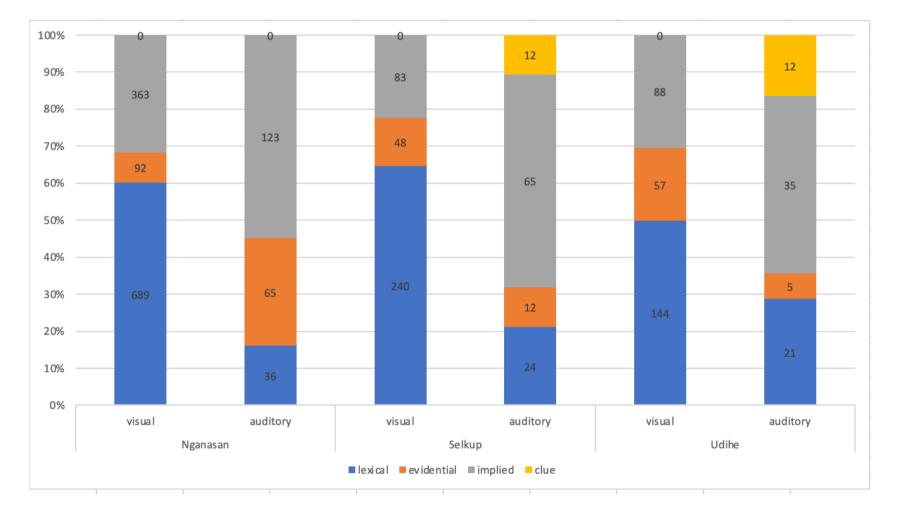
Evidential particles are used with both modes of perception in Selkup and Udihe but occur more frequently with visual perception:

- (24) Selkup (Uralic; Western Siberia)
   Monti mita tətti, tətti kini-mmi-nti.
  - PTCL.INFER as.if earth earth stretch-RES-LATENT
  - 'It is land that spreads.' (NEP\_196X\_NenetsAndWhiteBear2\_flk.083)
- (25) Udihe (Tungusic; Eastern Siberia) *Ei, wali dieli: dieli-wesi: bubu.*INTERJ raven fly-PRP fly-DIV.PRP PTCL.EVID
  'She saw a raven flying here and there.' (Nikolaeva et al. 2001: 103)

#### In all three languages:

- Visual perception prevails over auditory;
- Visual perception: lexical > implied > evidential;
- Differences in encoding auditory perception, but implied meaning is the most frequent across three languages:
  - Nganasan: implied > evidential > lexical;
  - o Selkup: implied > lexical > evidential > clue;
  - Udihe: implied > lexical > clue > evidential.

## Figure 1. Sensory perception in Nganasan, Selkup, and Udihe.



Auditory clues in Selkup and Udihe:

(26) a. Selkup (Uralic; Western Siberia)
 (*l'osi qarra qol'l'imol'l'ä kurrol'na (qənna) ütti a*:*l'ča.*)
 *mita* qurr qäːš.
 as.if IDPH IDPH

'(The devil, having turned to the bank, ran [away], and fell into the water.) As if **glug** [into the water].' (KAI\_1965\_SylchaPylcha1\_flk.092)

- b. Udihe (Tungusic; Eastern Siberia)
- "Kon-kon" wali dieli:-ni.
- croak-croak raven fly-3sg

"Croak-croak" (said) the raven as it flew.' (Nikolaeva et al. 2001: 104)

Sensory perception in the three Siberian languages

In Siberian Uralic languages, the auditive mood is traditionally used in contexts where visual perception is not available; otherwise: the meaning is mainly implied.

(27) Nganasan (Uralic; Northern Siberia)

Ou,tənəŋhətə,maa-t'ə-küətcoəbtə-riaaINTERJPTCLbadPTCLwhat-EMPH-EMPH also-LIMtuj-hua-munu-t'üŋ.

come-INT-AUD-3PL

(S'üartu d'a munu?ə: Bəndi ŋon'd'i?, **kat'əməkəiŋ** maagüə, kət'i ŋua biaril'aamə<del>i</del> **səŋül'əkəiŋ**.)

"Oh, it's bad, someone is coming, it is heard." (He says to his friend: "Go outside, look around, or just open the door and look.)' (ChND\_080722\_TwoFriends\_flk.260)

Change in the evidential system of Nganasan (cf. Il'yina 2014);

Auditive is used more often with speech verbs where interlocutors see each other (365 occurrences with speech verb 'say' vs. 111 elsewhere):

(28) Nganasan (Uralic; Northern Siberia)

N'üəgəj əməniə n'inditi ŋanuə t'elməgüə?.

'They came very close to them.'

*Tə, munumunut'i: Əi, taharıaa n'ükü, maad'əəri n'üəriəi, kuniðə iməd'əəri?* 'They say (as it is heard): Hey, guys, where are you from?'

*Əi, təni?ia munurusa n'inibtia?kud'üm munumunut'ü: Əi, siðirhobtə ŋəðitəndiŋ!* 'When they were asked, the older brother says (**as it is heard**): "Oh, you are right!..."' (MVL\_090807\_Bebtie\_flk.300–302)

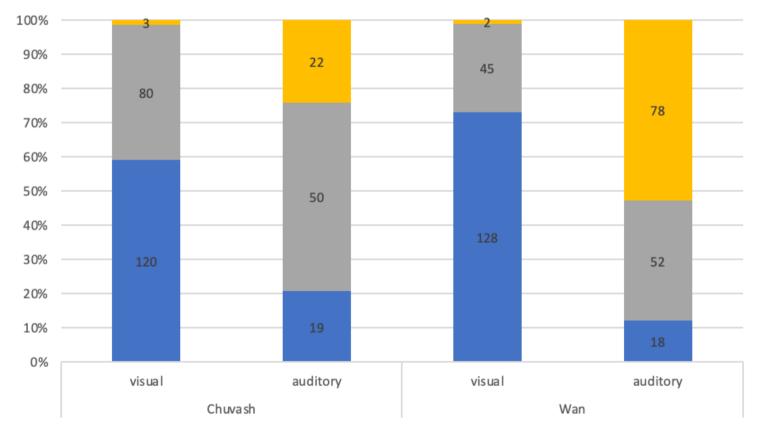
In Selkup: rare use of the auditive mood (29a), compensated by latentive (29b):

(29) Selkup (Uralic; Western Siberia)

a.	Tü-l'č'i-qɨŋä	па	ɔːta-m-tɨ	to	sora
	come-PFV-AUD	this	reindeer-Acc-3sg.poss	away	bind
	⊃ːta-m-tɨ.				
	reindeer-Acc-3sg				
	'Having come (as one hears), he bound his reindeer.'				
	(NEP_196X_OrphanBoyAndPanOldMan2_flk.120)				

 b. ondə t'eːrba-n: qaj nat'en raqsimi-nt.
 self.3sG think-3sG what there-LOC rattle-LATENT
 'He thought to himself: "What is clanking over there?" (PMP\_1961\_PlayingWithEyes\_flk.89)

## Sensory perception in languages without grammatical evidentials



#### Figure 2. Sensory perception in Chuvash and Wan

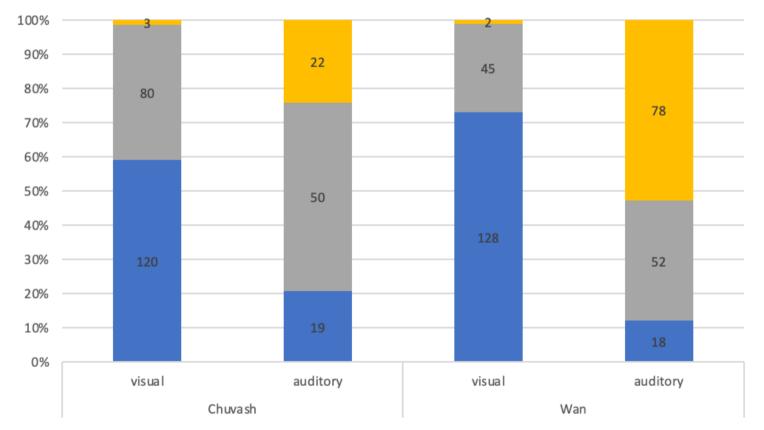


## Sensory perception in languages without grammatical evidentials

Ideophone refers to the object's visual characteristics

- (30) Wan (Mande; Côte d'Ivoire)
  tē bú è filà á téń-téń-téń
  fire powder DEF be.white ADJ.FOC IDPH-IDPH-IDPH
  'The cinder is sparkling white!' (Bachelor\_and\_the\_Cinder.007)
- (31) Chuvash (Turkic; Central Russia) *iltəm tös-lē kor[ə]nat<sup>j</sup> jəltar-jəltər-jəltər-jəltər-jəltər*gold gold-propr see-REFL-prs.3sG IDPH-IDPH-IDPH-IDPH-IDPH *ta, vo:t.*and PTCL
  'looks like gold in color, shining bright, that's it.'
  (Chuvash\_lvan\_sadovnik\_start.297)

## Sensory perception in languages without grammatical evidentials



#### Figure 2. Sensory perception in Chuvash and Wan

■lexical ■implied ■clue

## Sensory perception in languages without grammatical evidentials

In Chuvash & Wan:

- Visual perception similarly prevails over auditory;
- Visual perception: lexical > implied > visual clue;
- Differences in encoding auditory perception:

Chuvash: implied > auditory clue > lexical;

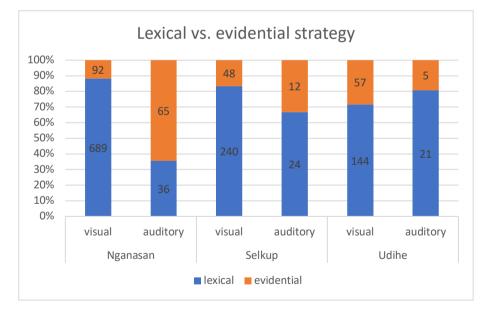
 $\circ$  Wan: auditory clue > implied > lexical.

# 4. Discussion

## Is Nganasan special?

## Is auditory perception more prominent in Nganasan at the lexical level than in languages without specialized auditive evidentials?

• Contrary to our expectations, we detected a negative correlation between the use of sensory evidentials and the use of perception verbs:

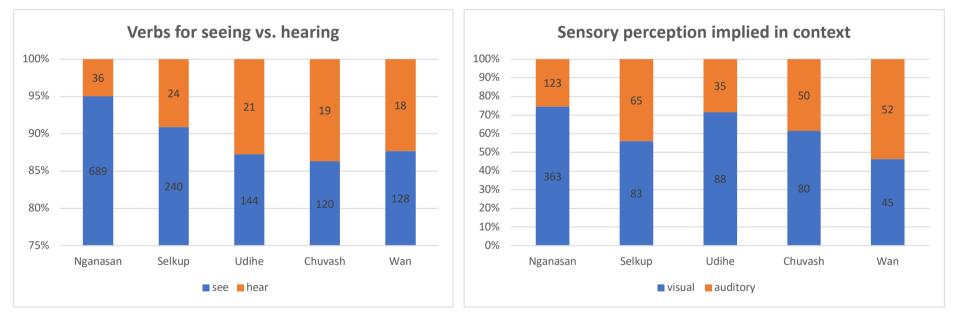


(the difference between Nganasan and Selkup/Udihe is statistically significant)

## Is Nganasan special?

# Is auditory perception overall more prominent in Nganasan traditional narratives as compared to languages without auditive evidentials?

• Contrary to our expectations, it is less prominent, compared to visual perception, than in the other languages we examined:



(significant difference between Nganasan and all other languages) (significant difference between Nganasan and all languages except Udihe)

## Why are the distributions so different?

- Cultural factors;
- Rhetorical factors;
- Conventions of genre.

# Why are the distributions so different?

- Cultural factors:
  - a common setting in Nganasan & Selkup: listening from the inside of the house to what is going on outside;
  - In Nganasan but not Selkup: prominence of shamanistic rituals in traditional narratives (but also in personal life stories) involving singing and playing shaman drums;
  - in Wan: a person approaching an unknown village announces their arrival by a song (which is perceived and interpreted by the villagers).

# Why are the distributions so different?

- Cultural factors;
- Rhetorical factors:
  - a popular construction in Udihe:

'She got up [and saw] her sledge full of ash wood' 'She went there [and saw] that the little man had been walking there again'

- emotion-laden visual descriptions by a Chuvash narrator:

'It is indescribably beautiful!'

 visual and auditory perception expressed via the characters' speech and thought in Nganasan & Selkup narratives:

'Oh, here is my younger sister walking outside.'

'The fire crackles and she is suprised: "Why is the fire crackling all the time?"'

# Why are the distributions so different?

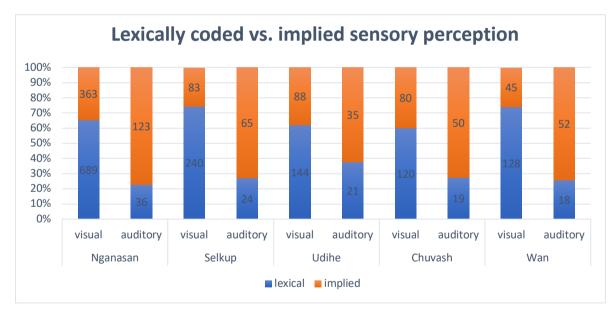
- Cultural factors;
- Rhetorical factors;
- Conventions of genre:
  - traditional stories in Wan are structured around a song, which serves as the driving force behind the events in the story (hence the common mentions of the way it is perceived):

'What kind of proverb-song are you singing?' 'Eh, your dance is sweet.' 'And she did not hear the song.'

## Are there any universals across our samples?

In all the five languages of our sample:

- visual perception tends to be coded lexically,
- auditory perception tends to be inferred from context.



Could the relative prominence of vision as information source explain this tendency?

# **5.** Conclusions

## Conclusions

Our initial hypothesis was only partially confirmed:

- the language with specialized auditive evidentials behaved differently from all others, but not in the way expected;
- instead of showing greater prominence of events of auditory perception in traditional narratives, it showed their significantly lower prominence (compared to visual perception)

This result can be explained in part by an overlap in the functions of the auditive evidential and the use of verbs for 'hear'.

What remains unexplained is the low frequency of events of auditory perception that are not coded overtly.

## We observe that **the frequency of reference to events of sensory perception depends on extralinguistic factors** (cultural, rhetorical, generic):

- o there may be extralinguistic reasons why Nganasan behaves as an outlier;
- Is it a coincidence that our hypothesis of its "deviating" behavior was confirmed?

The study revealed an unexpected general trend observed in all the languages in our sample: **visual perception tends to be coded by verbs while auditory perception tends to be left uncoded**.

- This trend is highly significant but we do not quite know how to explain it.
- Are visual experiences more "tell-worthy" across cultures?

We need to extend our sample, considering cultural differences in the social role of auditory experience (Evans & Wilkins 2000).

Thank you! Ευχαριστώ!

#### References

Aikhenvald, Alexandra Y. (2004), Evidentiality. Oxford: Oxford University Press.

- Bernárdez, Enrique (2017), Evidentiality A Cultural Interpretation, in F. Sharifian (ed), *Advances in Cultural Linguistics*, Singapore: Springer, 433–461.
- Brykina, Maria, Valentin Gusev, Sándor Szeverényi & Beáta Wagner-Nagy (2018), *Nganasan Spoken Language Corpus (NSLC)*. Version 0.2. <u>http://hdl.handle.net/11022/0000-0007-C6F2-8</u>
- Brykina, Maria, Svetlana Orlova & Beáta Wagner-Nagy (2020), INEL Selkup Corpus, Version 1.0, in B. Wagner-Nagy, A. Arkhipov, A. Ferger, D. Jettka, and T. Lehmberg (eds), *The INEL corpora of indigenous Northern Eurasian languages*. <u>http://hdl.handle.net/11022/0000-0007-E1D5-A</u>.
- Evans, Nicholas & David Wilkins (2000), In the mind's ear: The semantic extensions of perception verbs in Australian languages. *Language*, 546-592.
- Gusev, Valentin Ju. (2007), Èvidencial'nost' v nganasanskom jazyke [Evidentiality in Nganasan]. In: V. S. Xrakovskij (ed), Èvidencial'nost' v jazykax Evropy i Azii. Sbornik statej pamjati N.A. Kozincevoj, Saint-Petersburg: Nauka, 415 – 444
- Michael, Lev (2015), The cultural bases of linguistic form: The development of Nanti quotative evidentials, in R. De Busser, and R. J. LaPolla (eds), *Language Structure and Environment*, Amsterdam: John Benjamins, 99–133.
- Nikitina, Tatiana (2022), A narrative corpus of Chuvash. In Nikitina, Tatiana, Ekaterina Aplonova, Izabela Jordanoska, Ekaterina Biteeva, Abbie Hantgan-Sonko, Guillaume Guitang, Olga Kuznetsova, Elena Perekhvalskaya & Lacina Silué (eds.) *The SpeechReporting Corpus: Discourse Reporting in Storytelling*. CNRS-LLACAN & LACITO, http://discoursereporting.huma-num.fr/index.html

Nikolaeva, Irina & Maria Tolskaya (2001), A Grammar of Udihe. Berlin: Mouton de Gruyter.

#### References

- Perekhvalskaya, Elena (2021), A narrative corpus of Udihe. In Nikitina, Tatiana, Ekaterina Aplonova, Izabela Jordanoska, Ekaterina Biteeva, Abbie Hantgan-Sonko, Guillaume Guitang, Olga Kuznetsova, Elena Perekhvalskaya & Lacina Silué (eds.) *The SpeechReporting Corpus: Discourse Reporting in Storytelling*. CNRS-LLACAN & LACITO, http://discoursereporting.huma-num.fr/index.html
- Slobin, Dan I. (1987), Thinking for Speaking, Annual Meeting of the Berkeley Linguistics Society 13, 435–445.
- Urmančieva, Anna Ju. (2014), Èvidencial'nye pokazateli sel'kupskogo jazyka: sootnošenie semantiki i pragmatiki v opisanii glagol'nyx grammem [Evidential Markers of Selkup: Correlation between Semantics and Pragmatics in the Description of Verbal Grams], *Voprosy jazykoznanija* 4, 66–86.