Decomposing the Croatian 'know'

Iva Kovač

University of Vienna

iva.kovac@univie.ac.at

19 June 2023

BerlinBrnoVienna Workshop



Der Wissenschaftsfonds.

All the things one can znati 'know' in Croatian

(1)	a.	Viki zna	Marina.	
		Viki know.3sc	G Marin.Acc	
		'Viki knows A	Aarin.'	FAMILIARITY
	b.	Viki zna	da je njezin bicikl crven.	
		Viki know.3sc	that is her bicycle red	
		'Viki knows tl	hat her bicycle is red.'	ATTITUDE
	c.	Viki zna	kako voziti bicikl.	
		Viki know.3sc	s how drive.INF bicycle	
		'Viki knows h	ow to ride a bicycle.'	ABILITY
	d.	Viki zna	voziti bicikl.	
		Viki know.3sc	G drive.INF bicycle	
		'Viki knows h	ow to ride a bicycle.'	ABILITY
		'Viki occasion	ally rides a bicycle.'	HABITUAL-LIKE
	e.		znaju zapeti.	
		these drawers	know.3pl get.stuck.INF	
			rs occasionally get stuck.'	HABITUAL-LIKE

• Common core \approx mental acquaintance.

In a nutshell

- Habitual-like *znati*: iterativity and evidentiality.
 - The speaker infers recurrence based on limited evidence and her or his mental acquaintance with the world.
- Different flavours of znati:
 - Lexical root \sqrt{zna} and different functional heads (Cavirani-Pots 2020, Cinque 1999, 2006).

The habitual-like znati

What is habituality?

- (2) a. Simon used to believe in ghosts.
 - b. Alice smokes.
 - c. This machine crushes oranges.

(Comrie 1976, 27)

- (Krifka et al. 1995, 54)
- Aspect, iterativity, modality, genericity, evidentiality? (Appendix)

A diverse concept encompassing (classes of) expressions which display distinct but overlapping clusters of properties.

- Habituality \approx a state of affairs holds for an extended period of time.
- A single expression may combine properties of multiple categories.
 - Iterativity, imperfectivity, modality, ...
- Habitual-like *znati*: **iterativity** and **evidentiality**.
 - Other combinations: English *would*, Croatian *bi* 'would', Hebrew *hyy* lit. 'be', German *pflegen* lit. 'cultivate, nurse' (Appendix).

Raising

- No restrictions on the subject, no 'knowing'.
- (3) a. U travnju zna sniježiti. in April know.3sg snow.inf 'It occasionally snows in April.' WEATHER PREDICATE b. Vrag zna odnijeti šalu. devil know.3sg take.away.INF joke.Acc 'Things occasionally get serious.' (lit. The devil occasionally takes away the joke.) IDIOM CHUNK c. Ove ladice znaju zapeti. these drawers know.3pl get.stuck.INF 'These drawers occasionally get stuck.' **INANIMATE SUBJECT**
- Core meaning: iteration / recurrence.

Iterativity

- The embedded eventuality needs to be repeatable.
- (4) #Dijanin hram je znao stajati u Efezu.
 Dijana.Poss temple AUX.3SG know.PTCP.SG.M stand.INF in Ephesus
 Intended: 'The Temple of Diana used to stand at Ephesus.' STATIVE
- (5) a. #Marin zna biti ljevak. Marin know.3sg be.INF leftie #'Marin is sometimes a leftie? INDIVIDUAL-LEVEL
 - b. Nobelovci znaju biti ljevaci. Nobel.prize.winners know.3pl be.inf lefties 'Nobel prize winners are sometimes lefties.' INDIVIDUAL-LEVEL
- (6) #Zrinka zna maturirati s odličnim uspjehom.
 Zrinka know.3sc graduate.from.high.school.inf with excellent success
 #'Zrinka occasionally graduates from high school with excellent grades.'
 ONCE-ONLY (DE SWART 1993)

Evidentiality

- One occurrence suffices ~>>> iteration may be inferred.
- (7) Igor is travelling to Spain for the first time for his summer holiday. Upon his arrival, it starts to rain. From this one instance of rain, he can conclude:

U Španjolskoj ljeti zna padati kiša. in Spain in.summer know.3sG fall.INF rain 'It occasionally rains in Spain during the summer.'

- Possibility of recurrence from the speaker's perspective is crucial.
- (8) Marina started a new job. She decided to go to work by bus. She only went there once, and then she died. (based on Boneh & Doron 2013)

#Marina je znala ići na posao autobusom. Marina AUX.3SG know.PTCP.SG.F go.INF on work bus.INSTR #'Marina occasionally went to work by bus.'

Actualisation

- The embedded eventuality needs to be actualised.
- (9) Looking at a piece of land with hydrangea-friendly conditions (but no traces of actual hydrangeas at or before the time of the utterance to the best of the speaker's knowledge).
 - a. Ovdje mogu / moraju niknuti hortenzije.
 here can.3PL must.3PL sprout.INF hydrangeas
 'Hydrangeas can / must sprout here.' (based on Kratzer 1991)
 - b. #*Ovdje znaju niknuti hortenzije.* here know.3pl sprout.inf hydrangeas #'Hydrangeas occasionally sprout here.'
- Inference based on (reliable) evidence \rightsquigarrow not (pure) modality.
 - Further evidence against modality: accidental recurrence, incompatibility with negation (Appendix).

Summary: Habitual-like znati

- Iterativity: the embedded predicate has to be repeatable.
- Evidentiality: iteration may be inferred based on limited evidence and the speaker's knowledge about the world.
- How are iterativity and evidentiality encoded in the grammar?
- Proposal: lexical root \sqrt{zna} and an iterative functional head.
 - Evidentiality reflects the core mental acquaintance meaning of \sqrt{zna} .
 - Iterativity comes from the iterative functional head.

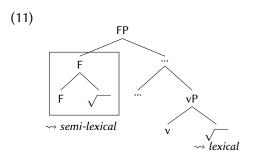
The proposal: Roots meet cartography

Semi-lexicality

- Lexical items: e.g., sulk, cheese, fabulous.
- Functional items: e.g., -ing, -s, the.
- Semi-lexical items (Emonds 1985, Corver & Van Riemsdijk 2001): e.g., raising *threaten/promise* (Verhagen 1995), durative *zitten* 'sit' in Dutch (Cavirani-Pots 2020).
- (10) a. It promises to be a hot and grueling day. (Traugott 1997, 185)
 b. Ik heb de hele dag zitten te lezen.
 I have the entire day sit to read
 'I have been reading the entire day.' (Cavirani-Pots 2020, 1)
- Proposal: habitual-like znati is semi-lexical.

Cavirani-Pots (2020)

- Strict division between lexical roots and functional heads.
 ~> No inherently semi-lexical items.
- Semi-lexicality in the syntax.



(see Cavirani-Pots 2020, 3)

• What is F?

Cartographic clause structure (Cinque 1999, 2006)

- Cinque hierarchy (Cinque 2006, 93, 175).
- (12) Mood_{speech act} (frankly, honestly) » Mood_{evaluative} ((un)fortunately, luckily) » Mood_{evidential} (allegedly, reportedly) » Mood_{epistemic} (probably, presumably) » T_{past} (yesterday) » T_{future} (tomorrow) » Mood_{irrealis} (perhaps) » T_{anterior} » Mod_{alethic} (necessarily) » Asp_{habitual} (usually, generally) » Asp_{repetitive(I)} (again) » Asp_{iterative(I)} (repeatedly, often) » Mod_{volition} » Asp_{celerative(I)} (quickly) » Asp_{terminative} (no longer) » Asp_{continuative} (still) » Asp_{perfect} » Asp_{retrospective} (just) » Asp_{prospective} (almost) » Asp_{inceptive(I)} » Mod_{obligation} (necessarily) » Mod_{ability} (possibly) » Asp_{frustrative/success} » Mod_{permission} » Asp_{conative} » Asp_{completive(II} (completely) » Voice (well) » Asp_{celerative(II} (quickly, fast) » Asp_{inceptive(II}) » Asp_{completive(II}) » Asp_{repetitive(II}) (often) » V
- $\sqrt{-}$ & F must be compatible (Klockmann 2017, Cavirani-Pots 2020).

Habitual-like znati

The speaker infers iteration based on limited (direct or indirect) evidence and her or his knowledge about the world.

- \sqrt{zna} + Asp_{iterative}
- Iterativity: Asp_{iterative}.
- Evidentiality: \sqrt{zna} .
 - Raising verb: above the subject (and above Voice) ~> mental acquaintance applied to the speaker.¹
 - Evidentiality is not grammaticalised: evidence from negation (Appendix).

¹See, e.g., Speas & Tenny (2003) for a speaker argument in the syntax (in $\approx Mood_{speech act}$).

All the things one can *znati* (again)

(14)	a.	Viki zna	Marina.	
		Viki know.3sc	G Marin.Acc	
		'Viki knows N	Aarin.'	FAMILIARITY
	b.	Viki zna	da je njezin bicikl crven.	
		Viki know.3sc	that is her bicycle red	
		'Viki knows tl	hat her bicycle is red.'	ATTITUDE
	c.	Viki zna	(kako) voziti bicikl.	
		Viki know.3sc	s how drive.INF bicycle	
		'Viki knows h	ow to ride a bicycle.'	ABILITY
	d.	Ove ladice	znaju zapeti.	
		these drawers	s know.3pl get.stuck.INF	
		'These drawe	rs occasionally get stuck.'	HABITUAL-LIKE

- Habitual-like *znati*: \sqrt{zna} + Asp_{iterative}.
- Familiarity & attitude *znati*: $\sqrt{zna-} + v$ (lexical).
- Mental ability?

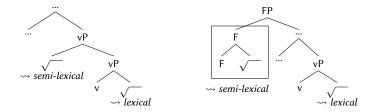
Mental ability znati

- Semi-lexical: \sqrt{zna} + Mod_{ability}.
 - Lexical: mental acquaintance/knowledge applies to the subject.
 - Functional: ordering restrictions.
- (15) Viki zna_{iter} znati_{abil} voziti bicikl.
 Viki know.3sc know.INF drive.INF bicycle
 'Viki occasionally knows how to ride a bicycle.' ITER > ABIL
 *'Viki knows how to occasionally ride a bicycle.' *ABIL > ITER
- Less lexical than familiarity / attitude but more lexical than habitual-like *znati*.

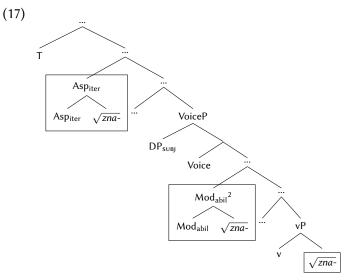
Two stages of grammaticalisation (Cavirani-Pots 2020)

(16) a. Stage I

b. Stage II



- Habitual-like znati: stage II.
- Mental ability znati: between stage I and II.
 - Merged with a functional head (Mod_{ability}) above vP \approx stage II.
 - Within the thematic domain of another root (below Voice) \approx stage I.
 - Mod_{ability} \rightsquigarrow ability; $\sqrt{zna} \rightarrow$ mental acquaintance.



Ordering predictions!

²See Wurmbrand (2001) on the low position of Mod_{abil}.

Ordering

• Habitual-like (Asp_{iter}) > mental ability (Mod_{abil}) > familiarity/attitude (v).

(18)	a.	Viki zna _{iter} znati _{abil} voziti bicikl.	
		Viki know.3sg know.1NF drive.1NF bicycle	
		'Viki occasionally knows how to ride a bicycle.'	ITER > ABIL
		*'Viki knows how to occasionally ride a bicycle.'	*ABIL > ITER
	b.	Viki zna _{iter} znati _v da je Zemlja okrugla.	
		Viki know.3sg know.INF that is Earth round	
		'Viki occasionally knows that the Earth is round.'	ITER > V
	c.	Viki zna _{abil} ?(kako) znati _v trebaju li biljke vode.	
		Viki know.3sg how know.INF need.3PL Q plants water	
		'Viki knows how to know whether the plants need water.'	ABIL > V

Conclusion & outlook

Conclusion & outlook

- Different flavours of *znati*: decomposed into smaller building blocks.
- Common core (\sqrt{zna} -) \approx mental acquaintance.
 - \sqrt{zna} + Asp_{iterative} = habitual-like
 - \sqrt{zna} + Mod_{ability} = mental ability
 - \sqrt{zna} + v = familiarity / attitude
- Comparing the habitual-like *znati* with similar expressions.
 - Sporadic can (Boyd & Thorne 1969, Kleiber 1983), also sometimes.
- Combination of Cavirani-Pots' (2020) and Cinque's (1999, 2006) frameworks: applicable to other phenomena.
 - Complex habitual-like expressions (e.g., would, German pflegen).
 - Modality and X-marking (von Fintel & latridou 2023).
 - Polysemous verbs and diachrony: e.g., Proto-Indo-European $\sqrt{{}^*g'neh_3}$ -, 'know' in other languages \rightsquigarrow the semantics of \sqrt{zna} -.

References I

- Boneh, Nora, and Edit Doron. 2008. Habituality and the habitual aspect. In *Theoretical and crosslinguistic aproaches to the semantics of aspect*, ed. Susan Rothstein, 321–347. Amsterdam: John Benjamins.
- Boneh, Nora, and Edit Doron. 2010. Modal and temporal aspects of habituality. In *Lexical semantics, syntax, and event structure*, ed. Malka Rappaport, Edit Doron, and Ivy Sichel, 338–363. Oxford: Oxford University Press.
- Boneh, Nora, and Edit Doron. 2013. Hab and Gen in the expression of habituality. In *Genericity*, ed. Alda Mari, Claire Beyssade, and Fabio Del Prete, 176–191. Oxford University Press.
- Boneh, Nora, and Łukasz Jędrzejowski. 2019. Reflections on habituality across other grammatical categories. *STUF Language Typology and Universals* 72:1–20.
- Boyd, Julian, and James Peter Thorne. 1969. The semantics of modal verbs. *Journal of linguistics* 5:57–74. Carlson, Gregory N. 1977. Reference to kinds in English. Doctoral Dissertation, University of

Massachusetts Amherst.

- Cavirani-Pots, Cora. 2020. Roots in progress: Semi-lexicality in the Dutch and Afrikaans verbal domain. Doctoral Dissertation, KU Leuven.
- Cinque, Guglielmo. 1999. Adverbs and functional heads: A cross-linguistic perspective. Oxford/New York: Oxford University Press.
- Cinque, Guglielmo. 2006. Restructuring and Functional Heads. Oxford: Oxford University Press.
- Comrie, Bernard. 1976. Aspect. Cambridge: Cambridge University Press.
- Corver, Norbert, and Henk Van Riemsdijk. 2001. Semi-lexical categories. In *Semi-lexical categories: The function of content words and the content of function words*, ed. Norbert Corver and Henk Van Riemsdijk, 1–19. Berlin: Mouton de Gruyter.

References II

Dahl, Östen. 1975. On generics. In *Formal semantics of natural language*, ed. Östen Dahl and Edward L. Keenan, 99–111. Cambridge: Cambridge University Press.

- De Swart, Henriëtte. 1993. Adverbs of Quantification: A Generalized Quantifier Approach. New York/London: Garland Publishing.
- Emonds, Joseph E. 1985. A unified theory of syntactic categories. Dordrecht: Foris.
- von Fintel, Kai, and Sabine latridou. 2023. Prolegomena to a theory of X-marking. To appear in Linguistics and Philosophy. URL http://mit.edu/fintel/fintel-iatridou-2023-x.pdf.
- latridou, Sabine, and Hedde Zeijlstra. 2013. Negation, polarity, and deontic modals. *Linguistic Inquiry* 44:529-568.
- Jędrzejowski, Łukasz. 2021. On the habitual verb *pflegen* in German: Its use, origin, and development. *Linguistics* 59:1473–1530.
- Kleiber, Georges. 1983. L'emploi «sporadique» du verbe pouvoir en français. In La notion sémantico-logique de modalité, ed. Jean David and Georges Kleiber, 183-203. Paris: Klincksieck.
- Klockmann, Heidi. 2017. The design of semi-lexicality: Evidence from case and agreement in the nominal domain. Doctoral Dissertation, Utrecht University.
- Kratzer, Angelika. 1991. Modality. In *Semantics: An international handbook of contemporary research*, ed. Arnim von Stechow and Dieter Wunderlich, 639–650. Berlin: De Gruyter.
- Krifka, Manfred, Francis Jeffry Pelletier, Gregory N. Carlson, Alice ter Meulen, Gennaro Chierchia, and Godehard Link. 1995. Genericity: An introduction. In *The Generic Book*, ed. Gregory N. Carlson and Francis Jeffry Pelletier, 1–124. Chicago: University of Chicago Press.

References III

- Lenci, Alessandro. 1995. The semantic representation of non-quantificational habituals. In *Temporal reference, aspect and actionality: Semantic and syntactic perspectives*, ed. Pier-Marco Bertinetto, Valentina Bianchi Bianchi, James Higginbotham, and Mario Squartini, volume 1, 143–158. Torino: Rosenberg & Sellier.
- Speas, Peggy, and Carol Tenny. 2003. Configurational properties of point of view roles. In *Asymmetry in Grammar*, ed. Anna Maria Di Sciullo, 315–344. Amsterdam, Philadelphia: John Benjamins.
- Tagliamonte, Sali, and Helen Lawrence. 2000. "I used to dance, but I don't dance now": The habitual past in English. *Journal of English Linguistics* 28:324–353.
- Traugott, Elizabeth Closs. 1997. Subjectification and the development of epistemic meaning: The case of promise and threaten. In *Modality in Germanic Languages*, ed. Toril Swan and Olaf Jansen Westvik, 185–210. Berlin: De Gruyter Mouton.
- Van Geenhoven, Veerle. 2003. The semantic diversity of characterizing sentences. In Proceedings of the 14th amsterdam colloquium, ed. Paul Dekker and Robert van Rooy, 211–216. Amsterdam: Institute for Logic, Language and Computation.
- Verhagen, Arie. 1995. Subjectification, syntax, and communication. In Subjectivity and subjectivisation: Linguistic Perspectives, ed. Dieter Stein and Susan Wright, 103-128.
- Wurmbrand, Susi. 2001. *Infinitives: Restructuring and clause structure*. Berlin, New York: Mouton de Gruyter.

Appendix

What is habituality?

1 Viewpoint aspect? (Comrie 1976)

... but both perfective and imperfective (Boneh & Doron 2010).

Iterativity / event plurality? (Van Geenhoven 2003) ... neither sufficient nor necessary (Comrie 1976).

3 Genericity? (Krifka et al. 1995)

 \neq habituality (Lenci 1995, Boneh & Doron 2013).

Modality? (e.g., Boneh & Jędrzejowski 2019)

... not necessary (Van Geenhoven 2003).

5 Evidentiality? (Carlson 1977)

... not a defining property.

A diverse concept split into clearly definable subclasses displaying distinct but overlapping clusters of properties.

- Habituality pprox a state of affairs holds for an extended period of time.
 - Iterated events or prolonged states, real or modal worlds, ...

Habitual-like *znati* \neq viewpoint aspect

- Both perfective (e.g., 1984–1987) and imperfective (e.g., 1978–1996) interpretation possible.
- (19) U osamdesetima je Zrinka (pune tri godine) znala in eighties AUX.3SG Zrinka full three years know.PTCP.SG.F raditi u vrtu. work.INF in garden 'In the eighties, Zrinka occasionally worked in the garden (for three whole years).'

Habitual-like znati is not generic

- Habituality \neq genericity (Lenci 1995, Boneh & Doron 2008).
- Generic sentences: universal quantification, require an overt restrictor.
 - Every event of Alice after dinner is an event of Alice smoking a cigarette after dinner.

(20)	a.	Lewis smokes.	HABITUAL
	b.	Alice smokes a cigarette #(after dinner).	GENERIC

- *Znati*: no restrictor required, no universal quantification.
- (21) *Marina zna zapaliti.* Marina know.3sc light.INF 'Marina occasionally smokes.'

Accidental recurrence ~> not modality

- Modality: rule-like / nomic generalisations (e.g., Dahl 1975, Krifka et al. 1995, Boneh & Doron 2010).
- Iteration with *znati* can be accidental.
- (22) Marina is coming over for dinner and Viktor asks her flatmate whether it's a good idea to prepare a meat dish for her.
 - a. Zašto ne, Marina zna jesti meso. why NEG Marina know.3sG eat.INF meat 'Why not, Marina occasionally eats meat.'
 - b. #Bolje ne, Marina se zna hraniti vegetarijanski. better NEG Marina se know.3sG feed.INF vegetarian #'Rather not, Marina occasionally eats vegetarian.'

• Znati is incompatible with rules.

(23)#Lovac se zna kretati dijagonalno. bishop se know.3sg move.INF diagonally #'The bishop moves diagonally now and then.'

The speaker may infer iteration based on limited (direct or indirect) evidence and her or his knowledge about the world.

• Suggestion: evidence *against* a certain (default) state of affairs—not evidence *for* a regularity.

No escape from negation → not modality

• Habitual-like znati resists negation: Positive Polarity Item (Appendix).

(24)#Ove ladice ne znaju zapeti. these drawers NEG know.3PL get.stuck.INF Lit. 'These drawers don't know to get stuck.' *HABITUAL-LIKE/#ABILITY

- Modal Positive Polarity Items (latridou & Zeijlstra 2013): English *must*, Spanish *deber*, Modern Greek *prepi*.
- (25) Dhen prepi na to kanume afto.
 NEG must NA it do this
 'We must not do this.' □ > ¬ (latridou & Zeijlstra 2013, 530)
- Modal PPIs scope over negation by undergoing (covert) QR.
- *Znati* cannot outscope negation ~> no QR, not modal.

Three types of complex habitual-like expressions

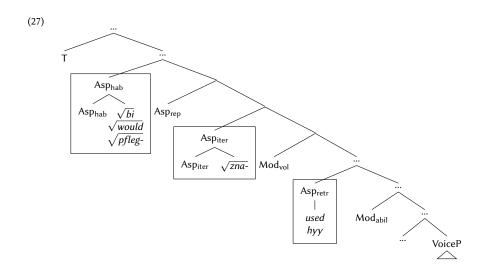
Simon PFLEG.3SG to spy.INF 'Simon has the habit of spying.'

(26) a. ya'el hayt-a 'oved-et ba-gina Yael HYY.PST-3SC.F work-SC.F in.the-garden 'Yael used to work in the garden.' (Hebrew; Boneh & Doron 2013, 344)
b. John used to work here. (English; Comrie 1976, 25)
c. And occasionally a window would get broken. (English; Tagliamonte & Lawrence 2000, 340)
d. Tata bi nam prije spavanja otpjevao uspavanku. dad would us.DAT before sleeping sing.PTCP.SC.M lullaby 'Dad would sing us a lullaby before going to sleep.' (Croatian)
e. Simon pflegt zu spionieren.

(German; Jędrzejowski 2021, 1480)

	Hebrew English		Croatian		German	
	ASPECTUAL		GENERIC		ITERATIVE	
	hyy	used to	would	bi	znati	pflegen
Non-iterative	ok	ok	*	*	*	*
States	ok	ok	*	*	*	*
ILPs	*	ok	*	*	*	*
Viewpoint	IPFV	IPFV	IPFV	IPFV	IPFV & PFV	IPFV & PFV
Restrictor		i	yes	yes	/	
Actualisation	yes	yes	INIT	INIT	$\overline{} \ge \overline{1}$	≥ 1

The syntax of complex habitual-like expressions



Habitual-like *znati* is a PPI

- Diagnostics adapted from latridou & Zeijlstra (2013).
- (28) Nije Viktor znao naručiti limunadu, nego Vedrana. NEG.AUX.3SG Viktor know.PTCP.SG.M order.INF lemonade but Vedrana 'It wasn't Viktor who occasionally ordered a lemonade but Vedrana.'

CONTRASTIVE NEGATION

(29) Nije ZNALA dolaziti petkom; bila je samo jednom. NEG.AUX.3SG KNOW.PTCP.SG.F come.INF Friday.INSTR be.PTCP.SG.F AUX only once 'She didn't OCCASIONALLY come on Friday; she was here only once.'

CONTRASTIVE FOCUS

- (30) Ne zna Luka jesti zdravo jer želi nego jer mora.
 NEG know.3SG Luka eat.INF healthily because want.3SG but because have.to.3SG
 'Luka doesn't occasionally eat healthily because he wants to but because he has to.'
 ¬ > because > znati
- (31) Ne mislim da Vedrana zna naručiti limunadu. NEG think.1sG that Vedrana know.3sG order.INF lemonade 'I don't think that Vedrana occasionally orders lemonade.' $\neg > [_{CP} \dots znati$

Habitual-like znati is a weak PPI

- (32) Samo Zrinka nije znala igrati šah s nama. only Zrinka NEG.AUX.3SG know.PTCP.SG.F play.INF chess with us 'Only Zrinka didn't occasionally play chess with us.' only $> \neg > znati$
- (33) Samo je Marko znao pjevati pod tušem. only AUX.3SG Marko know.PTCP.SG.M sing.INF under shower 'Only Marko occasionally sang under the shower.' DOWNWARD ENTAILING

Evidentiality is not grammaticalised: Evidence from negation

- Negation in Croatian: below the (high) subject position, above znati.
- (34) (Zanimljivo da) samo Marina ne zna zapaliti nakon ručka.
 interesting that only Marina NEG know.3sG light.INF after lunch
 '(It is interesting that) only Marina doesn't sometimes smoke after lunch.'
 only > ¬ > znati
- (35) $Mood_{speech act} \gg Mood_{evaluative} \gg Mood_{evidential} \gg Mood_{epistemic} \gg \underline{T_{past}} \gg \underline{T_{future}} \gg Mood_{irrealis} \gg \underline{T_{anterior}} \gg (...) \gg \underline{NEG} \gg ...$
- Habitual-like *znati* cannot escape negation.

 $\rightsquigarrow \sqrt{zna}$ - does not merge with Mood_{evidential}.

• Evidentiality is part of the lexical \sqrt{zna} -.

