

SPANISH NEG-RAISING:

Always in the mood for Neg-raising, sometimes in the mood for NPIs

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Introduction

- Neg-raising (NR): neg. in matrix clause interpreted in embedded clause
- NR inference only occurs with NR predicates (NRPs), e.g. believe, think
- NR allows licensing of strict NPIs (e.g. until) in embedded clause
- a. Ana doesn't believe_{NRP} [that the train will arrive until seven] b. \rightsquigarrow Ana believes [that the train won't arrive until seven] (√NR)

! Licensing of strict NPIs is the classic test for NR

- #Ana doesn't claim_{NON=NRP} [that the train will arrive until seven]
- a. Ana doesn't claim_{NON-NRP} [that the train will arrive] b. Ana claims [that the train won't arrive]
- Spanish allows IND/SUBJ alternation in emb. clause under some NRPs
- But IND sentences with strict NPIs are at best marginally grammatical
- Ana no creenne que el tren llegue (4)hasta las siete (√NR) Ana not believe that the train arrive. SUBJ until the seven
- (5) */#/? Ana no creenne que el tren llega hasta las siete Ana not believe that the train arrive.IND until the seven
- Evidence like (5) has been used to argue that IND blocks NR (HYP A) (Rivero 1971; Harrington & Pérez-Leroux 2016; a.o.)
- However, others have separately reported a NR inference with IND, but make no comment on NPI licensing (Bolinger 1968; de Fignoni 1982; Siegel 2009)

HYP A: IND blocks both NR inference and licensing of strict NPIs HYP B: IND allows both NR inference and licensing of strict NPIs HYP C: IND allows NR inference but blocks licensing of strict NPIs

Research Questions

RQI: How acceptable are NPIs in IND vs. SUBJ emb. clauses under NRPs?

RQ2: How frequently are constructions with NRPs interpreted with the NR reading when the complement clause is in IND vs. SUBJ?

Experimental Design

- Factors: 3x2 design
- Sent. type: NNR vs. NR vs. NR+NPI
- Mood: IND vs. SUBJ
- 6 NRPs & 6 corresponding non-NRPs
- 2 NPIs: hasta 'until' & en N 'in Ns'
- Items:
- 36 critical items
- 12 fillers (low grammaticality)
- 4 attention checks

NRPs	Non-NRPs
pensar	saber
<i>pensar</i> 'think'	'know'
creer	estar seguro
'believe'	'be sure'
considerar	ser consciente
'consider'	'be aware'
<i>parecer</i> 'seem'	resultar obvio
'seem'	'be obvious'
<i>opinar</i> 'reckon'	asegurar
'reckon'	<i>asegurar</i> 'assure'
dar la impresión	recordar
dar la impresión 'give the impression'	'remember'

(NNR)

STEP

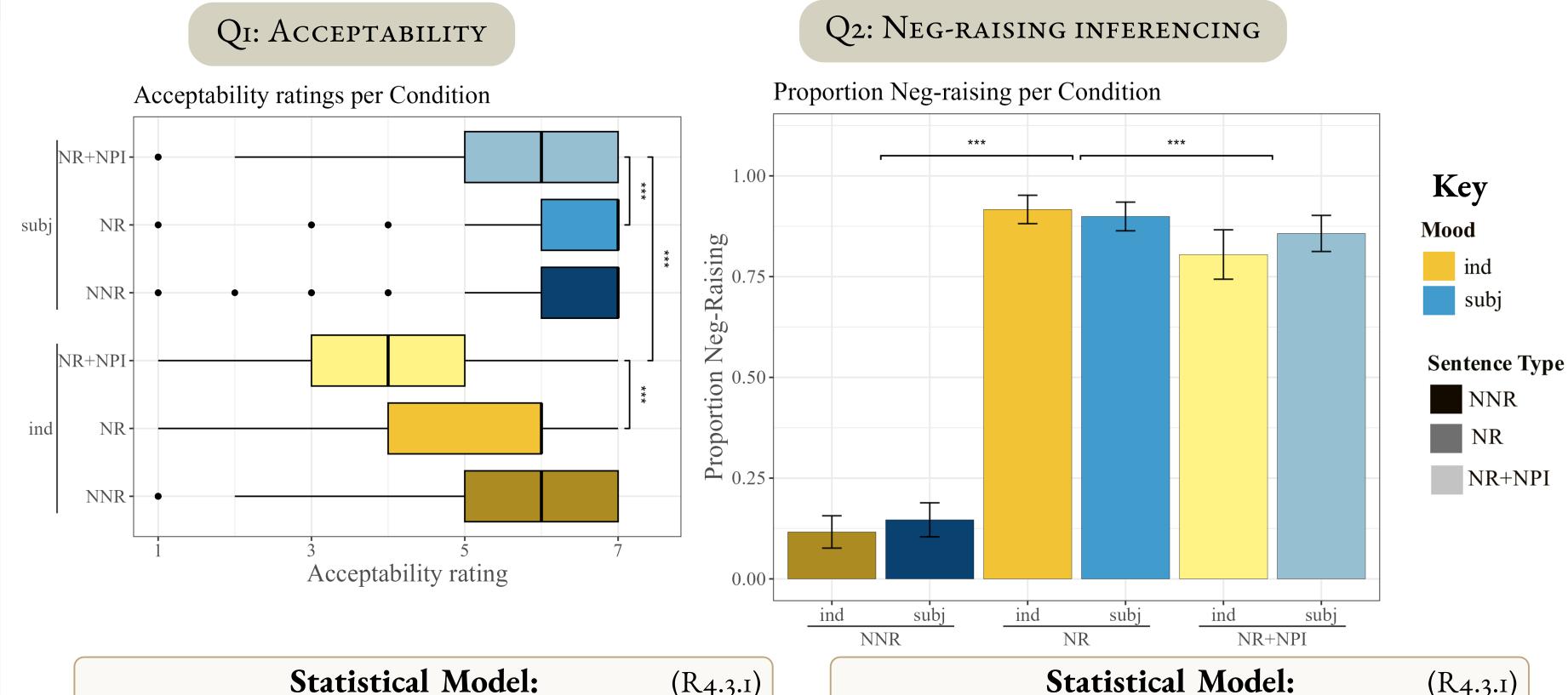
TEP

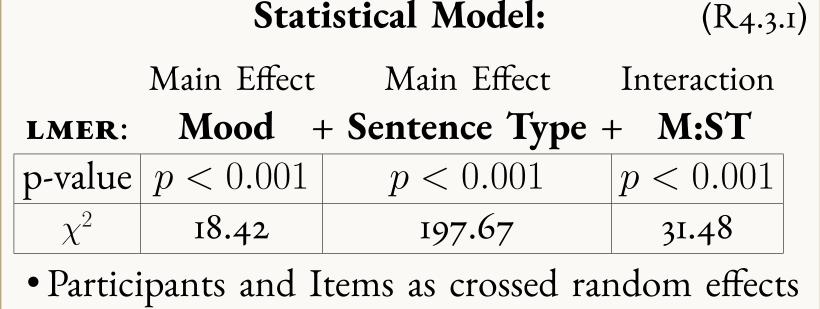
- Example item set (translated):
- (6) a. J. didn't know that V. had_{IND/SUBJ} visited the museum that year. b. J. didn't believe that V. had_{IND/SUBJ} visited the museum that year.
- (NR)
- c. J. didn't believe that V. had_{IND/SUBI} visited the museum in years. (NR+NPI)

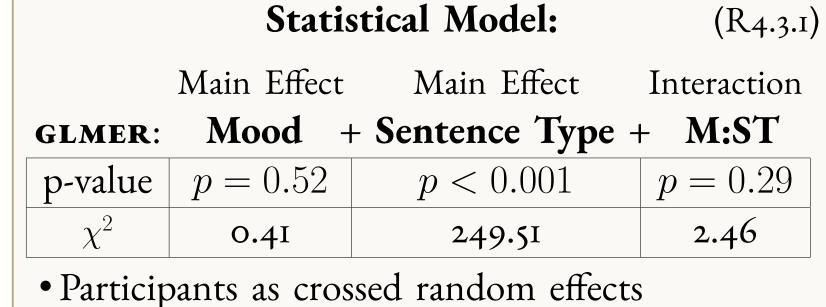
• Structure of the Experiment:

- Matrix V: always in imperfective to avoid ambiguity of the NPI
- Ana no pensó/*pensaba en ello hasta las ocho Ana not thought.PERF/IMP in that until the eight 'Ana didn't think about it until eight'
- Ana no **pensaba** que [fuera a llegar hasta las ocho] Ana not thought.IMP that go to arrive until the eight 'Ana didn't think it would arrive until eight'
- Embedded V: (i) counterbalanced for the two subjunctive forms -ra, -se to avoid dialectal effects & (ii) only telic verbs with NPI hasta
- Platforms: Prolific (participants) + PCIbex (experiment) (Zehr & Schwarz 2018)
- Participants: 48 native speaker of Peninsular Spanish

Experimental Results







- Sentences with NPIs overall less grammatical
- IND overall less grammatical
- Interaction: NPI ungrammaticality larger in IND [NR.IND - NR+NPI.IND] > [NR.subj - NR+NPI.subj]
- Non-NRPs <<< NR+NPI < NR
- Sentences with NPIs slightly reduced NR inferencing
- No effect of mood on NR inferencing



(XNR)

https://github.com/LeahDoroski/SpanishNegRaising

https://farm.pcibex.net/r/syGNNQ/

Towards an Analysis

Hyp C

PUZZLE: how does IND block licensing of strict NPIs without interrupting NR inferencing?

- NR inference strengthens the environment from DE to AA (e.g. Gajewski 2007)
- Strict NPIs require AA environment to be licensed (Zwarts 1998)
 - Ana doesn't believe that the train arrived. IND/SUBJ until 7 ASSERTS: $\neg \forall w' \in DOX_a^w.p(w')$

 $\neg \Box p$ (DE) $\rightsquigarrow \forall w' \in DOX_a^w. \neg p(w')$

 $\Box \neg p (AA)$ (NR) • Both IND and subj allow NR, so both should strengthen environment from DE to AA

• Non-TC content can intervene in the licensing of NPIs (e.g. Gajewski 2011; Homer 2008; Chierchia 2004)

weak NPIs strict NPIs (Gajewski 2011) indirect implicatures direct & indirect implicatures SCALAR IMPLICATURES: of function and of constituent containing NPI PRESUPPOSITIONS: of constituent containing NPI

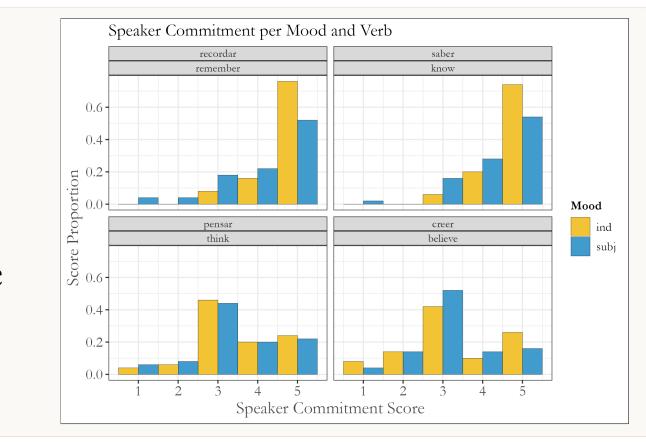
• IND carries additional meaning than SUBJ (Schlenker 2005)

• In Italian, IND carries a presupposition of speaker commitment (i.e. factivity) (Homer 2008) x doesn't V_{NRP} [that p]. $p.IND \rightsquigarrow p(w_0)=1$ $p.subj \not \sim p(w_0)=1$

• But, results from Montero and Romero (2023) indicate that IND in Peninsular Spanish does not carry a speaker commit-

ment presupposition with cognitive non-factive predicates (e.g. pensar 'think', creer 'believe')

• Experiment asked participants to what extent they thought the embedded proposition was true on a scale from 1 (false) to 5 (true)



(Italian)

IDEA: in Spanish, IND may carry a different presupposition which blocks the licensing of NPIs

Conclusion

Takeaway:

- ! Mood affects licensing of strict NPIs but doesn't affect NR
- Proposal: IND carries a presupposition that blocks NPI licensing
- ? At best, presence of strict NPIs does not increase NR readings • (Un)grammaticality of strict NPIs is not a reliable test of NR

Next steps:

What presupposition if not factivity?

What could cause strict NPIs to reduce NR readings?

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