

Bound) Pronouns in Competition: Evidence from Romanian Comprehension

Rodica IVAN, Brian DILLON, & Kyle JOHNSON (UMass Amherst)

rate of reflexive interpretation

of el in ambiguous contexts.

{rivan,brian,kbj}@linguist.umass.edu





Overview & Theoretical Import

We ask how speakers interpret pronouns (e.g. Romanian ea 'her') when they are ambiguous between reflexive and non-reflexive readings. We find:

- → no clear pressure for locally disjoint reference (contra Levinson, 1987; a.o.)
- → no clear pressure for bound variable readings (contra Reinhart, 1983; Reuland, 2011, a.o.)
- → complex reflexives (e.g. ea însăși 'her self') compete with simplex pronouns and this competition affects the bound variable interpretation of simplex forms

Testing Ground: Romanian Pronouns

DINIDING

ambiguous contexts.

Romanian pronouns el / ea 'him / her' are ambiguous between a locally bound and locally disjoint reading (not subject to Condition B). We investigate the interpretation of ambiguous el/ea by means of two experiments with pronouns targeting both referential (Exp 1) and quantified antecedents (Exp 2).

- Acasă la Mihai, Andrei a vorbit despre el / el însuși / acesta At Mihai's house, Andrei talked about him / himself / this one
- Acasă la bunicul Radu, fiecare băiat a vorbit despre el / el însuși / acesta At grandpa Radu's house, every boy talked about him / himself / this one

DDACMATIC

Comprehension Experiments: Referential & Quantified Antecedents

Task: Picture Matching. Participants chose one of two pictures to match their interpretation of a heard target sentence. Exp. 1: Referential Antecedents (e.g. Andrei), 2 characters Exp. 2: Quantified Antecedents (e.g. every girl), 4 characters Participants: 68 per experiment Materials: 15 items, 20 fillers **Dependent Variable:** rate of reflexive interpretation Within Subjects Factor: AMBIGUITY (Ambiguous / Reflexive / Disjoint). Ambiguous stimuli invariant across groups.

Between Subjects Factor: GROUP (Pronoun Gender / Pronoun Form disambiguates Reflexive / Disjoint controls)

Form group exposed to greater proportion of reflexive pronouns el însusi / ea însăsi (33%) than Gender group (0%)

GENDER GROUP



Acasă la Irina, Andrei a vorbit despre e At Irina's house, Andrei talked about him

Disjoint Acasă la Irina, Andrei a vorbit despre ea At Irina's house, Andrei talked about her Condition

FORM GROUP



At Mihai's house, Andrei talked about himself

Acasă la Mihai, Andrei a vorbit despre acesta At Mihai's house, Andrei talked about this one

AMBIGUOUS CONDITION





Acasă la Mihai, Andrei a vorbit despre el At Mihai's house, Andrei talked about him

Possible Pressures on Pronominal Interpretation

	BINDING IS EASY	PRAGMATIC LISTENERS	FORMS COMPETE
Reasoning	Syntactic-semantic dependencies (binding) are more economical than discourse relations (coreference). (Reinhart 1983, 2006; Reuland 2011, 2011)	Reference is guided by pragmatic constraints. Speakers attempt to avoid ambiguity. Hearers are mindful of this strategy. (Dowty 1980; Levinson 1987, 2000)	Pronouns and reflexives compete. This competition is guided either by economy (<i>Safir 2004, Rooryck & vanden Wyngaerd, 2011</i>), or by pragmatic constraints (Levinson, 1987, 2000), or both economy and pragmatic pressures, in a graded fashion.
Hypothesis	Bound variable LFs are easier to construct than discourse-dependent reference relations.	If the language has an unambiguously reflexive form, listeners reject reflexive interpretations of ambiguous pronouns.	Complex reflexives are part of the competition: el însuși competes with el. Simplex el is more economical, el însuși is unambiguously reflexive.
Prediction	High rate of reflexive interpretation of el in	Low rate of reflexive interpretation of el in	Additional activation of el însuși will lead to a lower

ambiguous contexts.

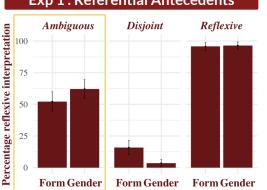
Results in a Nutshell

Reflexive

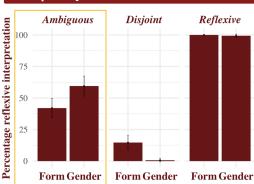
Condition

Logistic mixed-effects regression → significant difference in the rate of reflexive interpretation between the *Ambiguous* condition and (i) the Reflexive condition (Exp 1: z = 5.98, p<0.001, Exp 2: z=5.16,p<0.001) and (ii) the *Disjoint* condition (Exp 1: z = -8.18, p<0.001, Exp 2: z = -6.07, p<0.001). → significant effect of GROUP in the *Ambiguous* condition in Exp. 2 (z= -1.98,p<0.05), but not significant in Exp. 1 (z=-1.72,p=0.08)

Exp 1: Referential Antecedents



Exp 2: Quantified Antecedents



Discussion

→ Contrary to Binding is Easy and Pragmatic Listeners, comprehenders did NOT show a clear preference in their interpretation of ambiguous pronouns (roughly 50% reflexive choices).

→ Evidence of competition between forms. Consistent with Forms Compete, the additional exposure to complex reflexives el însusi / ea însăsi (in the Form group) led to a lower rate of interpretation of regular pronouns el/ea as bound variable reflexives in ambiguous contexts.

Acknowledgements

See first author's dissertation (QR code above) for references. This work was supported by NSI DDRI grant #1823686, for which we are very grateful. We are also indebted to Lyn Frazier, Adrian Staub, Marcel den Dikken, a.o., for their feedback, and UMass Amherst and the University of Bucharest for their support