



French 'de qui' and the 'subject island' (Based on joint work with Anne Abeillé)

Elodie Winckel Institute for German Language and Linguistics Philosophische Fakultät II HU Berlin

elodie.winckel@hu-berlin.de

Workshop on Long-distance dependencies, 4th october 2018



### dont

- complementizer (Godard 1988)
- animate or inanimate antecedent
- only for relative clauses

 not used in pied-piping constructions

### de qui

- ▶ preposition + pronoun
- ▶ *qui* 'who': [+ animate]
- for questions (ask for animated) and RC (animated antecedent)
- used in pied-piping constructions

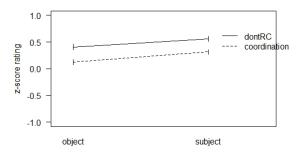


## dont and the 'subject island'

### Previous talk:

Small preference (p<.01) for subject conditions over object conditions (with or without extraction), but no interaction:

Abeillé et al. (2018)



#### French relative clauses



# *Dont* is an exception?

Following Tellier 1991 (a.o.): subject island contraint only for pronouns (not for complementizers)

- \* un linguiste de qui les parents \_ ont déménagé à Chartres a linguist of who the parents have moved to Chartres 'a linguist whose parents moved to Chartres'
- (2) un linguiste de qui vous avez rencontré les parents \_ a linguist of who you have met the parents 'a linguist whose parents you met'

(Tellier 1991: 89-90, judgements from Tellier)



De qui in the corpus in relative clauses in wh-questions

Experiments on *de qui* relative clauses with animacy mismatch without animacy mismatch

Conclusions



# The Frantext corpus

Frantext

- Corpus of 5118 texts from the French literature
- from 2000 to 2013: 196 texts
- annotated for lemma (sometimes pos)
- query [de qui]: 449 items
- manual annotation for type (RC or question) function (complement of subject, object, verb, etc.)



# Previsions

## Following Tellier 1991:

 no (or marginal amount of) extractions out of subject, both in relative clauses and in wh-questions

## Following Chomsky 2008:

only extraction out of subject of unaccusatives or passives

## Our Hypothesis:

- constraint on extraction out of subjects for interrogatives, but not for relative clauses
- similar pattern for *dont* and for *de qui* relative clauses



# Repartition of *de qui* in the corpus

Among 449 occurrences:

relative clauses	199
free relative clauses	89
wh-questions	129
cleft sentences	1
noise	31

└─ De qui in the corpus └─ in relative clauses



# Examples from Frantext

### Complement of a verb:

 (3) [...] les puissants, de qui il avait cru pouvoir se the powerful.ones of who he has thought can REFL séparer [...] (Pense à demain, Garat, 2010) part

'the powerful people, from who he thought he could part'

### Complement of an adjective:

 (4) [...] un groupe de mères de qui l' inquiétude la tenait a group of mothers of who the concern her kept éloignée [...] (L'enfant des ténèbres, Garat, 2010) far

'mothers, from who her concern made her stay away'



#### in relative clauses

# Examples from Frantext

### Complement of a noun:

(5) [...] les ogres de qui la danse barbare [...] vous confisque the ogres of who the dance barbaric you seizes
l' enfance. (Pense à demain, Garat, 2010) the childhood

'the ogres whose barbaric dance takes your childhood away from you'  $% \left( {{{\left[ {{{\left[ {{{\left[ {{{\left[ {{{\left[ {{{c}}} \right]}}} \right]_{i}}} \right.} \right]_{i}}}}} \right]_{i}}} \right]_{i}} \right)$ 

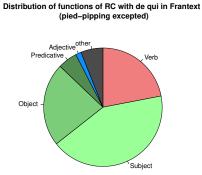
+ **Complements of prepositions**, which we exclude here from the results in order to compare with *dont* relative clauses.

French 'de qui' and the 'subject island'  $\square$  De qui in the corpus

in relative clauses



## Repartition



function	nb
complement	
of verb	29
complement	
of noun	93
- subject	56
- object	30
- predicative	7
complement	
of adjective	2
others	8
Total	132

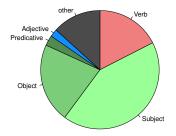
French 'de qui' and the 'subject island' De qui in the corpus in relative clauses



# Comparison with dont

- ▶ query [dont]: >9000 items
- we annotated 500 items (randomly)

Distribution of functions of RC with dont in Frantext (subset and antecedent [+ animate])



function	nb
complement	
of verb	25
complement	
of noun	94
- subject	60
- object	30
- predicative	4
complement	
of adjective	3
others	19
Total	141

O BERLIN

#### in relative clauses

# Extraction out of subject NP

 (6) [...] la belle Antillaise dont l' effigie orna [...] the nice Caribbean.girl of.which the effigy decorated les boîtes de Banania. (La solitude de la fleur blanche, Roux, the boxes of Banania 2009)

'the nice Caribbean girl, whose picture decorated the packages of the Banania brand'

De qui in the corpus

in relative clauses



# Relativizer choice (dont vs. de qui)

- No significative difference concerning the extraction out of subject NP (Fisher test, p=.9036)
- Exploratory analysis (generalized logistic regression models) to determine the relevant predictors amoung:
  - subject position (postverbal/preverbal)
  - type of verb (transitive or not)
  - definiteness of the antecedent
  - number of the antecedent
  - RC interpretation (appositive or restrictive)
  - The best model involve type of verb and interpretation:
    - ▶ appositive RC are 2.49 times more likely to be introduced by *de qui* than *dont* (p<.01)</p>
    - RC with transitive verbs are 2.08 times more likely to be introduced by *de qui* than *dont* (p<.05)</li>

French 'de qui' and the 'subject island'

De qui in the corpus

in relative clauses

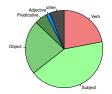


# dont vs. de qui: recap

### de qui

- only used for animate antecedent
- mostly used in pied-piping constructions
- ► 74% appositive
- 57% transitive verbs

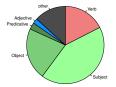
Distribution of functions of RC with de qui in Frantext (pied-pipping excepted)



### dont

- ▶ 141/500 with animate antecedent
- only for RC and without pied-piping
- ► 56% appositive
- 38% transitive verbs

Distribution of functions of RC with dont in Frantext (subset and antecedent [+ animate])





#### in wh-questions

# Repartition of *de qui* amoung interrogatives

### Among 129 occurrences:

direct questions	58
indirect questions	48
in situ (no extraction)	23

For the results:

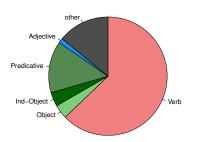
- only direct / indirect questions
- 28 verbless questions excluded

French 'de qui' and the 'subject island' De qui in the corpus in wh-guestions



# de qui among wh-questions

Distribution of functions of interrogatives with de qui in Frantext

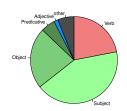


function	nb
complement	
of verb	49
complement	
of noun	17
- dir. object	3
- ind. object	3
- attribute	11
complement	
of adjective	1
others	11
Total	78



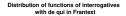


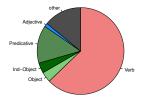
## Comparison with questions



Distribution of functions of RC with de qui in Frantext

(pied-pipping excepted)







# Back to our previsions

## Following Tellier 1991:

no (or marginal amount of) extractions out of subject, both in relative clauses and in wh-questions

## Following Chomsky 2008:

X only extraction out of subject of unaccusatives or passives

## Our Hypothesis:

- constraint on extraction out of subjects for interrogatives, but not for relative clauses
- similar pattern for *dont* and for *de qui* relative clauses



# Experiment 1

- extraction with *de qui*
- Likert scale 1 to 10
- acceptability judgment task (online)
- 20 items + 42 distractors
- 4 conditions (2x2 design):
  - extraction site (subject vs. object)
  - extraction type (with vs. without extraction)

### ► 73 participants



# Material (extraction)

- J' ai reçu un individu de qui la violence inquiète les I have entertained a person of who the violence worries the gendarmes.
   policemen
  - 'I entertained a person whose violence worries the policemen.'
- J' ai reçu un individu de qui les gendarmes craignent
   I have entertained a person of who the policemen fear
   *la violence.* the violence
  - 'I entertained a person whose violence the policemen fear.'



# Material (no extraction)

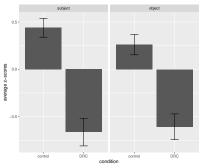
- (9) J' ai reçu un individu et sa violence inquiète les I have entertained a person and his violence worries the gendarmes. policemen
  - 'I entertained a person and his violence worries the policemen.'
- (10) J' ai reçu un individu et les gendarmes craignent sa I have entertained a person and the policemen fear his violence. violence
  - 'I entertained a person and the policemen fear his violence.'

French 'de qui' and the 'subject island' Experiments on *de qui* relative clauses with animacy mismatch



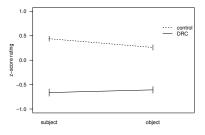
# Results

- main effect of extraction type (p<0.001)</li>
- no effect of extraction site



 marginal interaction effect (p<0.05)</li>

Effect of animacy? (Gennari & McDonald 2008)





# Experiment 2

- extraction with *de qui*
- both subject and object of the relative clause are [+animate]
- Likert scale 1 to 10
- acceptability judgment task (online)
- ▶ 20 items + 45 distractors
- 4 conditions (2x2 design):
  - extraction site (subject vs. object)
  - grammaticality (relative clause vs. ungrammatical sentence)

### 49 participants



# Material (relative clause)

 (11) J' ai trouvé un jardinier de qui l' apprenti apprécie mon I have found a gardner of who the apprentice appreciates my grand-père. grandfather

'I found a gardner whose apprentice appreciates my grandfather.'

- (12) J' ai trouvé un jardinier de qui mon grand-père apprécie
   I have found a gardner of who my grandfather appreciates
   I' apprenti.
   the apprentice
  - 'I found a gardner whose apprentice my grandfather appreciates.'

French 'de qui' and the 'subject island' Experiments on *de qui* relative clauses without animacy mismatch



# Material (ungrammatical)

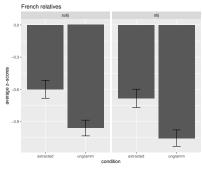
- (13) J' ai trouvé un jardinier qui l' apprenti apprécie mon I have found a gardner who the apprentice appreciates my grand-père. grandfather
- (14) J' ai trouvé un jardinier qui mon grand-père apprécie l' I have found a gardner who my grandfather appreciates the apprenti. apprentice

French 'de qui' and the 'subject island' Experiments on *de qui* relative clauses without animacy mismatch

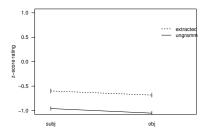


## Results

- main effect of grammaticality (p<0.001)</li>
- no effect of extraction site



no interaction effect





# Conclusion

- No subject island for nominal subjects
  - high frequency of subextraction from subject, both for *dont* and *de qui* in Frantext
  - extraction from subject NP is not worse than extraction from object NP
  - compatible with discourse-based approaches to islands (Erteschik-Shir 2007, Kuno 1982, Goldberg 2013, Chaves & Dery 2018)
  - back to Ross 1967: possibly a sentential subject island (but see Chaves 2012)
- (unexpected) differences between *dont* and *de qui*
  - penality for extraction from nominals with *de qui* (better with *dont*)
  - de qui better with appositives
- penality for extraction out of inanimate subject NP

#### French 'de qui' and the 'subject island'

#### - References



- Abeillé, Anne, Barbara Hemforth, Elodie Winckel & Edward Gibson. 2018. A construction-conflict explanation of the subject-island constraint.
- Chaves, Rui P. 2012. An expectation-based account of subject islands and parasitism. Journal of Linguistics 49(2). 297–344.
- Chaves, Rui P. & Jeruen E. Dery. 2018. Frequency effects in subject islands. *Journal of linguistics* 1–47. doi:10.1017/S0022226718000294.
- Chomsky, Noam. 2008. On Phases. In Jean-Roger Vergnaud, Robert Freidin, Carlos Peregrin Otero & Maria Luisa Zubizarreta (eds.), Foundational issues in linguistic theory, vol. 45 Current studies in linguistics, 133–166. Cambridge, Mass.: MIT Press.
- Erteschik-Shir, Nomi. 2007. Information Structure: The Syntax-Discourse Interface. Oxford oxford university press edn.
- Gennari, Silvia P. & Maryellen C. McDonald. 2008. Semantic indeterminacy in object relative clauses. *Journal of Memory* and Language 58(4). 161–187.

- Godard, Danièle. 1988. La syntaxe des relatives en français Science du langage. Paris: Editions du Centre national de la recherche scientifique.
- Goldberg, Adele. 2013. Backgrounded constituents cannot be extracted. In Jon Sprouse & Norbert Hornstein (eds.), Experimental Syntax and Island Effects, Cambridge University Press.
- Kuno, Susumu. 1982. The structure of the Japanese Language. Foundations of Language 13(3). 421–447.
- Ross, John Robert. 1967. Constraints on variables in syntax. Cambridge. MA.: MIT dissertation. http://hdl.handle.net/1721.1/15166.
- Tellier, Christine. 1991. Licensing theory and French parasitic gaps, vol. v. 26 Studies in natural language and linguistic theory. Dordrecht, The Netherlands and Boston: Kluwer Academic Publishers.