

*Linguistica sine finibus*

Estudis dedicats a Montserrat Batllori Dillet



Elisabeth Gibert-Sotelo, Isabel Pujol Payet,  
Assumpció Rost Bagudanch, Teresa de Jesús Tro Morató  
(eds.)

# LINGUISTICA SINE FINIBUS

ESTUDIS DEDICATS A MONTSERRAT BATLLORI DILLET



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# CLITIC CLIMBING IN MODAL CONSTRUCTIONS IN ALGHERESE CATALAN

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## **Keywords**

Algherese, clitic climbing, morphosyntax, sociolinguistics, acquisition.

## **Paraules clau**

alguerès, pujada de clítics, morfosintaxi, sociolingüística, adquisició.



### **Abstract**

This work represents the first analysis of clitic climbing in Algherese, the variety of Catalan spoken in the city of Alghero, Sardinia. On the basis of novel and existing data, we claim that clitic climbing in modal constructions is obligatory in Algherese, as opposed to most other varieties of Catalan in which it is optional (with the exception of some varieties of Balearic Catalan, in which clitic climbing is also obligatory). However, optionality is emerging in the grammars of some speakers due to language contact with Standard Italian, a variety in which clitic climbing is optional. We show this by controlling for two variables that predict for crosslinguistic interference from Italian, one being language dominance and the other frequency of use. Both variables are important factors of crosslinguistic interference in research on L1 attrition.

### **Resum**

Aquest treball és la primera anàlisi de la pujada de clítics en alguerès, variant del català parlada a la ciutat de l'Alguer, Sardenya. Partint de dades noves i ja existents, mostrem que la pujada de clítics en les construccions modals és obligatòria en alguerès, contràriament a la majoria de parlars catalans, en els quals és opcional (a part d'algunes varietats de català balear, en les quals també és obligatòria). Tanmateix, trobem opcionalitat en les gramàtiques d'alguns parlants degut al contacte lingüístic amb l'italià estàndard, una llengua en la qual la pujada de clítics és opcional. Per a demostrar-ho, analitzem dues variables associades a l'atrició de la L1, que tenen com a objectiu predir la interferència interlingüística de l'italià en l'alguerès: d'una banda, controlem el domini lingüístic dels parlants i, de l'altra, la freqüència d'ús de la llengua.

*To Montse, whom I have known for 20 years during which I have had the gift of her friendship, guidance, sabiduría and kindness. I owe her more than I could possibly put in words, and my student Tristan and I offer this piece of new research as a small token of gratitude for her amazing contributions to the diachronic generative study of Catalan, Spanish and Romance.*

Ioanna Sitaridou

## 1. INTRODUCTION

This work constitutes the first analysis of clitic climbing in Algerese, the variety of Catalan spoken in the city of Alghero, Sardinia. The morphosyntax of Algerese is understudied and most existing literature on Algerese focusses on other aspects of the language, such as phonology (e.g., Ballone 2016), lexicon (e.g., Bosch 2012; Corbera 1993, 2000), and its sociolinguistic situation both historically (e.g., Bosch 2002; Chessa 2008) and contemporaneously (e.g., Argenter 2008; Ballone 2017; Caria 2006; Perea 2010). Works that purport to describe the grammar of Algerese are limited and none address clitic climbing directly; such works include two grammars published in the early 20<sup>th</sup> century (Pais 1970 [1906]; Palomba 2001 [c.1907]), the prescriptive standard promulgated by the *Institut d'Estudis Catalans* (*El català de l'Alguer: un model d'àmbit restringit*, 2003), a historical grammar of Catalan with a focus on Algerese in particular (Blasco Ferrer 1984) and an approximation of colloquial Algerese (Bosch 1998). To our knowledge, there is just one dedicated analysis of the Algerese clitic system by Bosch and Scala (1999) who provide a morphophonological analysis.

Consequently, the central claim in this study regarding the position of complement clitics in modal constructions in Algerese is entirely novel and based on the analysis of both novel and existing data of spoken Algerese. The claim is outlined below:

- Clitic climbing in modal constructions is obligatory in Algerese, but optionality has emerged in the grammar of some speakers due to language contact with Italian.

The current work takes the following structure. In §2, we give a brief overview of the phenomenon of clitic climbing across Romance with special reference to the typology established by Cinque (2006). In §3, we outline the methodologies that underpin our quantitative analysis of spontaneous speech data from two sources: in-person interviews conducted with 15 Algerese speakers in May 2022 (Lee 2022); and four corpora of spoken Algerese that are available online. The results are presented in §4 and discussed in §5 in the context of language contact between Algerese and both Sardinian and Italian. We conclude in §6 and identify areas for future research.

## 2. CLITIC CLIMBING ACROSS ROMANCE

Clitic climbing (CC) in Romance can be defined as a syntactic configuration where a clitic that is selected as an argument by a lower verb attaches to a higher verb (Rivas 1977: in Sitaridou et al. 2015). The semantic class of the main verb is an important factor that restricts the availability of CC across Romance, and CC occurs typically only with auxiliaries, modals, volitionals, aspectuals and causatives (Roberts 2016; Sitaridou et al. 2015). CC is ungrammatical when verbs that do not belong to the semantic classes listed above take a non-finite verb as a complement. For example, compare the grammaticality of CC in the volitional construction in (1) to the ungrammaticality of CC in (2), where the main verb *detestare* does not belong to any of the aforementioned semantic classes. In the latter case, the clitic must appear attached to the lexical verb that selects it, as in (3).

- (1) *Ci vorrei andare con Maria*  
 loc= want.COND.1SG go.INF with Maria  
 «I would like to go with Maria»

Italian (Cardinaletti and Shlonsky 2004: 522)

- (2) \**Ci detesterei andare con Maria*  
 loc= hate.COND.1SG go.INF with Maria  
 «I would hate to go there with Maria»  
 Italian (Cardinaletti and Shlonsky, 2004: 521)
- (3) *Detesterei andarci con Maria* Italian  
 hate.COND.1SG go.INF=LOC with Maria  
 «I would hate to go there with Maria»

Since Kayne (1975), CC in causative constructions is considered a different syntactic phenomenon to that in auxiliary, modal, volitional and aspectual constructions. Additionally, auxiliary verbs have been shown to behave differently from modals, aspectuals and volitionals and are often considered separately (e.g., Gavarró and Laca 2008; Jones 1993). Modals, aspectuals and volitionals go by the conventional term «restructuring verbs» in the spirit of Rizzi (1982).

The distribution of CC in restructuring constructions across Romance is linked to the availability of null subjects. CC is available in null-subject languages such as Catalan and Spanish but unavailable in non-null-subject languages such as French (Kayne 1989). Moreover, CC in such constructions is obligatory in some Romance varieties, such as Sardinian (Jones 1993; Mensching 2017), but optional in others, such as Spanish (Sitaridou et al. 2015) and most varieties of Catalan (with the exception of some Balearic varieties, in which CC is obligatory) (Gavarró and Laca 2008). Lastly, in some Romance varieties such as Piedmontese (Parry 1994; Tortora 2014), Chilean Spanish (Sitaridou et al. 2015) and certain Central Catalan varieties (Bonet 2008), there are instances of a phenomenon known as clitic repetition, where a copy (in the theoretically neutral sense) of a clitic with the same referent appears in both the climbed and unclimbed position simultaneously. Cinque (2006, in Sitaridou et al. 2015: 98) summarises these empirical observations and makes the following typology of the availability of CC in restructuring constructions across Romance:

Table 1. Typology of clitic climbing across Romance

	Clitic climbing with restructuring verbs	Exemplary varieties
Type 1	Optional	Standard Italian, Spanish, most varieties of Catalan
Type 2	Obligatory	Sardinian, some varieties of Balearic Catalan
Type 3	Heavily restricted or disallowed entirely	French
Type 4	Clitic repetition	Piedmontese, Chilean Spanish, certain varieties of Central Catalan

Adapted from Cinque (2006) in Sitaridou et al. (2015: 98)

Given the typological variation between different varieties of Catalan, the purpose of the current work is to determine the typological status of Algherese with respect to CC, which has so far not received study, and in doing so to examine the contact hypothesis as stated in (i).

### 3. METHODOLOGY

The basis of the current work is a quantitative analysis of spontaneous speech data from two sources: in-person interviews with 15 Algherese speakers that took place in May 2022 (Lee 2022); and four corpora of spoken Algherese that are accessible online, listed below. Corpora 1 and 3 are available online in their entirety, while Corpora 2 and 4 appear as a fragment of the complete corpora.

- [Corpus 1] Armangué, Joan and Luca Scala. 1997. *L'Alguer. Primera campanya de gravacions de literatura popular de tradició oral*. <http://prosodia.upf.edu/coalgueres/ca/corpus/adt.html>
- [Corpus 2] Ballone, Francesc. 2000-2008. *Corpus Oral de l'Alguerès*. <http://prosodia.upf.edu/coalgueres/ca/corpus/ballone.html>
- [Corpus 3] Bosch i Rodoreda, Andreu, and Susanna Sanna. 1996. *Històries de l'Alguer, entre la marina i la campanya*. <http://prosodia.upf.edu/coalgueres/ca/corpus/bosch.html>

- [Corpus 4] Corbera, Jaume, and Enrico Chessa. 2009. *Conversa amb...Corpus Oral de l'Alguerès*. <http://prosodia.upf.edu/coalgueresc/ca/corpus/corbera.html>

With regards to the linguistic feature under study, we restrict the scope of this work to the position of clitics in modal and volitional constructions. While modal and volitional verbs are commonly grouped together with aspectual verbs in terms of their syntactic behaviour (as discussed in §2), Gavarró and Laca (2008) observe that these three semantic classes of verbs do not behave uniformly in Catalan varieties. With this in mind, we focus on modals and volitionals –the latter class being represented by just one verb, *volguer* «to want», in our sample– and exclude aspectuals. For the sake of brevity and precision, we group modals and volitionals under the term «modal verbs» in the current work.

### 3.1. Interviews

Interviews were conducted with a total of 15 speakers, of which 9 were female and 6 were male. The average age of the group was 58.9, the eldest participant being 80 and the youngest 25. The only selection criteria for potential participants was the ability to speak Algherese «fluently»,<sup>1</sup> and the interviews were conducted in Algherese. All speakers reported fluency in Italian in addition to Algherese. None of the participants reported any formal learning in linguistics.

Due to universal Algherese/Italian bilingualism among the speakers, we encounter what D'Alessandro et al. (2021) coin as the «baseline challenge», where the language variety in question does not have a sizeable population of monolingual speakers or a widely disseminated standard to act as a control for crosslinguistic interference (CI) from other varieties.<sup>2</sup> However, it is widely acknowledged in the literature on bilingualism that not all bilinguals behave the same with respect to CI. Thus, we control

1 Due to time constraints, Lee was not able to measure fluency by means of utterance length or lexical diversity beforehand albeit this can be done retrospectively.

2 While there exists the regional standard for Algherese that is promulgated by the Institut d'Estudis Catalans (2003), it is not disseminated widely in Alghero and only 8.1% of speakers report being able to read Algherese (Ballone, 2017: 9).

for two variables— language dominance and frequency of use— that influence crosslinguistic interference and divide the speakers in our interviews into groups. The comparison between these groups will allow a finer-grained analysis of our sample. To establish the criteria for the groupings when we control for each variable, we rely on sociolinguistic data collected with a questionnaire that formed part of the interviews.

### 3.1.1. Language dominance

Language dominance has been shown to be an important factor for CI in L1 attrition (see Polinsky 2018). In this study, we operationalised language dominance as relative proficiency, where a comparison is drawn between a bilingual's languages; one is considered «stronger» and one (or more) is considered «weaker». While some researchers attempt to quantify the proficiency of each of a bilingual's languages independently through testing lexical diversity, sentence length and other factors (e.g., Unsworth et al., 2018), an alternative is to employ a qualitative approach. For example, Pérez-Leroux et al. (2011) assess the relative proficiency of the bilingual children in their study by asking the children's parents to give a rating for the children's fluency in either language. In a similar vein, we invited the participants in our study to give a qualitative judgement of their own relative proficiency in Algerese and Italian (and any other languages they spoke) with the question: *With which language do you express yourself best?*

Based on the speakers' response, they were divided into three groups: Algerese dominant, balanced, and Italian dominant. See Table 2 below for the groupings:

Table 2. Groupings based on responses to Q9 of the sociolinguistic questionnaire: «With which language do you express yourself best?»

Dominant language	Participants
Algerese	S2, S3, S5, S8, S9, S13
Balanced	S4, S10
Italian	S1, S6, S7, S11, S12, S14, S15

With regards to predictions, the speakers who reported dominance in Italian are expected to show relatively higher levels of CI from Italian than

the other two groups, while those who reported dominance in Algerese are expected to show the opposite.

### 3.1.2. Frequency of use

The frequency at which a speaker uses and is exposed to a language is difficult to operationalise as a variable but warranted inclusion in the study because it is considered an important factor of CI, especially in studies on attrition (Grosjean 2010; Paradis 2004; Schmid and Köpke 2017). To quantify the frequency with which a speaker used their languages, we relied on the participants' responses to the following questions.

- *Which language(s) do/did you use with:*
  - a) *Your parents?*
  - b) *Your siblings?*
  - b) *Your grandparents?*
- *Which language(s) do you use:*
  - a) *With your friends?*
  - b) *With your partner?*
  - c) *With your children?*
  - d) *At work?*

To quantify the responses and standardise the criteria that were used to assign participants to groups, we assigned a numerical value to each possible response using a 5-point Likert scale, outlined below:

Table 3. Scoring criteria for responses to Q11 and Q12 of the sociolinguistic questionnaire using a 5-point Likert scale

Likert-scale score	
-2	Italian exclusively
-1	Italian mostly
0	Both languages equally
+1	Algerese mostly
+2	Algerese exclusively



With the scores, we calculated the average for each participant: a positive score meant that they used Algherese more and vice versa. In so doing, we made a binary variable that indicated which language a participant used most. The average results for each participant and their groupings appear below:

Table 4. Grouping of each participant in a binary variable based on frequency of use of Italian and Algherese

Grouping	Speakers (Score)
Algherese	S2 (2.00), S3 (0.50), S4 (0.57), S5 (0.29), S8 (0.57), S9 (0.60), S13 (1.00)
Italian	S1 (-1.75), S6 (-1.57), S10 (-0.33), S11 (-0.17), S12 (-1.50), S14 (-1.60), S15 (-1.80)

The predictions to be made for these groups are as follows: the participants who reported using Italian more in daily life should show more CI from Italian, while those who reported using Algherese more frequently should show less.

### 3.2. Online corpora

The speakers in the online corpora lack detailed demographic and sociolinguistic profiles. Only the age and gender of the speaker is provided in each corpus, except for Corpus 4, in which the creators generalise that all their speakers were over the age of 70 at the time of interviewing in 2008.

Despite the lack of information on the speakers in the corpora, there are a number of reasons to still consider the data in the analysis. Given that each corpus aims to document the language and oral traditions of Alghero, it is assumed that the corpus creators made a qualitative assessment that the speakers' language was «representative» enough to exemplify Algherese. While this assumption provides enough motivation to consider the data from the online corpora, it does not constitute strong enough justification to include the corpus speakers in any of the groupings that we make for the participants of my interviews to account for CI. Thus, the data from the online corpora will be presented separately in the results section.

### 3.3. Data collection and analysis

Spontaneous speech data is commonly taken to be representative of linguistic proficiency. Examples of clitics in modal constructions were transcribed using the standard for Algherese (Institut d'Estudis Catalans 2003). Pauses and false starts were not represented in the transcriptions. The online corpora present transcripts along with the audio files, and examples from these transcripts were double checked with the corresponding audio file before inclusion in the study.

All examples of clitics in modal constructions in the sample were amalgamated in a database in Microsoft Excel and exported to statistical-analysis software, Stata, to visualise and analyse the data. The quantity of clitics in the climbed position were compared to that of clitics in the unclimbed position. Chi-square tests are performed to determine whether the difference in behaviour between the groups of speakers is statistically significant when controlling for language dominance and frequency of use.

## 4. RESULTS

The total length of spontaneous speech data analysed in this study totals to 15 hours and 29 minutes: 2 hours and 11 minutes from the online corpora and 13 hours and 18 minutes from the interviews. The recording of the interview with one participant, S5, was corrupted, but we were able to salvage the data collected from the sociolinguistic questionnaire and make two observations of clitics in modal constructions. The total number of tokens in the entire sample totals 83, and consult the Table 5 for the distribution of tokens per source.

When analysing the examples of clitics in restructuring constructions, there were three syntactic patterns which problematised conclusions as to whether clitic climbing had occurred or whether clitic climbing was even an available option. We outline the three patterns below and explore the challenges that each group poses before making a decision whether to include or exclude the examples in the analysis.

Table 5. Distribution of examples of clitics in modal constructions per source

Source	Number of examples	Percentage (%)
Corpus 1	14	16.9
Corpus 2	9	10.8
Corpus 3	10	12.0
Corpus 4	5	6.0
Interviews	45	54.3
<b>Total</b>	<b>83</b>	<b>100</b>

#### 4.1. Clitic repetition

In the sample of clitics in restructuring constructions, there were five examples in which the same clitic with the same referent appears twice in the oration, once in the climbed position and once in the unclimbed position. See examples (4) to (8) below:<sup>3</sup>

- (4) *Qui les teniva de menjar-les, aqueixes*  
 who 3PL.FEM.ACC= have.impf.3sg of eat.inf=3PL.FEM.ACC those  
*dues peres?*  
 two pear

«Those two pears, who must have eaten them?»

(CAO, M, 1927, free speech) (Corpus 3)

- (5) *Tu, li ha dit, los tens de*  
 you 3SG.DAT= have.3SG said 3PL.MASC.ACC= have.2SG of  
*portar-los en giro del país en carrossa, a*  
 take.INF=3PL.MASC.ACC in tour of.the country in train.carriage to  
*mos fills!*  
 my children  
 «You, she said to him, 'you have to take my children around the country  
 by train!'»

(CXG, F, 1939, free speech) (Corpus 1)

3 When presenting examples from our interviews, we give the following information: (<speaker code>, <gender>, <birthyear>, <context of the example>) (<corpus>).

- (6) *Ell ha deixat una planta, que so jo, i ara*  
 he have.3SG left a plant that be.1SG I and now  
*la tinc d'amarar-la cada dia*  
 3SG.FEM.ACC=have.1SG of water.INF=3SG.FEM.ACC every day  
 «He left behind a plant, which is me, and now I have to water it every day»  
 (S3, F, 1953, free speech) (Interviews)
- (7) *Si tinc de tornar a aquella cançó, la*  
 if have.1SG of return.INF to that song 3SG.FEM.ACC=  
*tenc de llegir-la*  
 have.1SG of read.INF=3SG.FEM.ACC  
 «If I have to go back to that song, I have to read it»  
 (S3, F, 1953, free speech) (Interviews)
- (8) *Ha vist un bocí de pa i se'l*  
 have.3SG seen a piece of bread and 3SG.REFL=3SG.MASC.ACC=  
*vol menjar-lo*  
 want.3SG eat.INF=3SG.MASC.ACC  
 «He has seen a piece of bread and he wants to eat it»  
 (S2, M, 1945, free speech) (Interviews)

These examples are similar to patterns of clitic placement in Type 4 languages in the typology given by Cinque (2006) (see Table 1 in §2). In these cases, the clitic that appears in the unclimbed position is interpreted as a trace or copy (see Chomsky 1995) that the clitic in the climbed position has left behind after undergoing movement (e.g., Villa-García 2019). Given that movement (i.e., clitic climbing) has occurred, these examples were grouped with the examples of climbed clitics.

## 4.2. Coordinated infinitives in modal constructions

In the following three examples, a clitic appears attached to the second of two coordinated infinitives that are complements of the same restructuring verb, see (9) to (11).

- (9) *Tot tenim de deixar i de nos estimar com*  
 all have.1PL of leave.INF and of 1PL.REFL= love.INF like  
*a germans*  
 to brothers  
 «We all have to leave and love each other like brothers»  
 (CAF, F, 1904, folksong) (Corpus 1)

- (10) *Fra Jose ne vol l'escuma i lo viure*  
 brother Jose PART= wants the.foam and 3SG.MASC.ACC= live.INF  
*del tresor*  
 of.the treasure  
 «Brother Jose wants the best of the best and to live in luxury»  
 (CAF, F, 1904, folksong) (Corpus 1)
- (11) *No podíem agafar al poblet del costat una*  
 NEG can.IMPF.1PL take.INF to.the town.DIM of=the side a  
*cançó i fer-la nostra*  
 song and make.INF=3SG.FEM.ACC ours.FEM  
 «We couldn't take a song from the neighbouring village and make it our own»  
 (S11, M, 1974, free speech) (Interviews)

In movement-based accounts of CC, the movement of the clitic from the lexical verb is subject to locality constraints, and in the examples above, the movement of the clitic is blocked by the Coordinate Structure Constraint, according to which a conjunct, or any element contained therein, may not be moved out of the conjunct (Ross 1967). Consequently, the clitic on the second of coordinated infinitival complements in (9) to (11) must remain in situ and clitic climbing is not an option. Given that the focus of this study is on the optionality of clitic climbing, we choose to exclude these examples since they would skew the data towards a preference for clitics to appear in the unclimbed position.

#### 4.3. *Volguer* and non-coreferential infinitival subjects

The following two examples of unclimbed clitics with the volitional verb *volguer* come from the same speaker.

- (12) *Aqueix home vol a hi posar-li d'aqueixos*  
 that man want.3SG to 3SG.DAT= put.INF=3SG.DAT of=those  
*plantons de pera diumenge*  
 saplings of pear Sunday  
 «That man wants to get given some of those pear saplings on Sunday»  
 (CAO, M, 1927, free speech) (Corpus 3)
- (13) *Si vol a els hi posar-lis-hi,*  
 if want.3SG to 3SG.DAT=3PL.ASC.ACC= put.INF=3SG.DAT=3PL.ASC.ACC  
*lis hi posem*  
 3SG.DAT=3PL.MASC.ACC= put.1PL  
 «If he wants to get given them, we'll give him them»  
 (CAO, M, 1927, free speech) (Corpus 3)

These examples differ from the other examples of *volguer* to want for two reasons: firstly, the underlying subject of the infinitival complement is non-coreferential with the subject of the main verb; and secondly, the infinitival complements are introduced with a complementiser *a*. These sentences are ungrammatical in other varieties of Catalan, in which *que*-clauses are the only complementation strategy in instances where the verb *voler* «to want» takes a sentential complement with a non-coreferential subject (Gavarró and Laca 2008). Compare (14), where the infinitival complement of *voler* is coreferential with the main verb, to ungrammatical (15) and grammatical (16), where the subject is not.

- (14) *No ho vull trencar* Catalan  
 NEG 3.NEUT= want.1SG break.INF  
 «I don't want to break it»
- (15) \**No vull a trencar-ho tu* Catalan  
 NEG want.1SG to break.INF=3.NEUT you  
 «I don't want you to break it»
- (16) *No vull que ho trenquis* Catalan  
 NEG want.1SG that 3.NEUT= break.SUBJ.2SG  
 «I don't want you to break it»

Notably, the pattern represented by (12), (13) and (15) is an available alternative to *que*-complementation in Sardinian, where an infinitival complement whose subject is not coreferential is always introduced by either *a* or *de* (Jones 1993: 268). Compare (17), an infinitival complement of the verb *kérrere* «to want» with a coreferential subject, to (18), where the subject of the infinitival complement is non-coreferential:

- (17) *Non lu keljo secare* Sardinian  
 NEG 3.NEUT= want.1SG break.INF  
 «I don't want to break it»
- (18) *Non keljo a lu secare tue* Sardinian  
 NEG want.3.SG to 3.NEUT= break.INF you  
 «I don't want you to break it»

In (18), Jones (1993) analyses the verb *kérrere* as behaving as a lexical verb which introduces an infinitival complement in a biclausal structure, evidence of which lies in the appearance of a complementiser, *a* or *de*, and the unavailability of CC. Moreover, Sardinian, and the Logudorese

variety in particular, has been identified as a very important contact language for Algherese (Bosch 2002; among others). The structural similarity between the Sardinian construction and the Algherese examples and the likelihood that the Algherese examples are the result of a syntactic calque of the Sardinian construction make it likely that clitic climbing is not an available option in examples (12) and (13). Thus, examples (12) and (13) are excluded from the analysis for the same reasons as the examples in §4.2.

#### 4.4. Results with outliers excluded

Following the exclusion of the examples in §4.2 and §4.3, the total number of tokens falls to 78. The distribution of CC in restructuring constructions is visualised in Table 6.

Table 6. Distribution of climbed versus unclimbed clitics in the sample with outliers removed

Clitic position	Frequency	Percentage (%)
Climbed	72	92.3
Unclimbed	6	7.7
<b>Total</b>	78	100

The 6 examples of unclimbed clitics come from 5 speakers (S1, S6, S10, S11, and S14), which means that we found no examples of unclimbed clitics in modal constructions in the online corpora and all 34 clitics in modal constructions from the corpora appeared in the climbed position. Below are the examples of unclimbed clitics in the sample, (19) to (24).

- (19) *Vols            anar        -bi?*  
 want.2SG    go.INF    =LOC  
 «Do you want to go there?»

(S1, M, 1967, free speech) (Interviews)

- (20) *Tè            de se        l'inserir-la                                com*  
 have.3SG of REFL= 3SG.FEM.ACC=insert.INF=3SG.FEM.ACC as  
*a llengua paral·lela a l'italià*  
 to language parallel to the=Italian  
 «They have to insert it as a parallel language to Italian»

(S6, F, 1950, free speech) (Interviews)

- (21) *Envia un correu, o fes com vols, tens de contractar-lo*  
 send.IMP.2SG an email or do.IMP.2sg as want.2SG have.2SG  
 of contact.INF=3SG.MASC.ACC  
 «Send an email or do what you like, you have to contact him»  
 (S10, M, 1950, free speech) (Interviews)
- (22) *Lego, ve lo funcionari del municipi del temps i no sap llegir-lo*  
 then come.3SG the public.servant of.the town.hall of.the time  
 and NEG know.3SG read.INF=3SG.MASC.ACC  
 «Then the public servant from the town hall comes and he can't read it»  
 (S10, M, 1950, free speech) (Interviews)
- (23) *Si entopes una persona que empra la paraula cansat, tens de la fotografiar-la*  
 if meet.2SG a persona that use.3SG the word tired  
 have.2SG of 3SG.FEM.ACC= photograph.INF=3SG.FEM.ACC  
 «If you meet someone who uses the word “cansat”, you have to photograph them»  
 (S11, M, 1974, free speech) (Interviews)
- (24) *Jo no sep llegir-lo i no sep escriure l'alguerès*  
 I NEG know.1SG read.INF=3SG.MASC.ACC and NEG know.1SG  
 write.INF the.Algerese  
 «I don't know how to read it and I don't know how to write Algerese»  
 (S14, F, 1975, free speech) (Interviews)

## 4.5. Controlling for crosslinguistic interference

In this subsection, we implement the measures that aimed to control for crosslinguistic interference from Italian outlined in §3.1 and analyse the sample identified in §4.4. As stated in §3.2, the examples from the online corpora are excluded from this part of the analysis due to the lack of sociolinguistic information on the speakers.

### 4.5.1. Relative proficiency

The distribution of clitics in restructuring constructions by the groups based on the relative proficiencies of the participants' languages are shown in Table 7 below.



Table 7. Distribution of climbed versus unclimbed clitics in modal constructions by dominant language

Dominant language	Climbed	Unclimbed	Total
Algherese	22	0	22
Balanced	3	2	5
Italian	13	4	17
<b>Total</b>	<b>38</b>	<b>6</b>	<b>44</b>

$$\chi^2(2) = 7.8374, p=0.02 (p<0.05)$$

#### 4.5.2. Frequency of use

The distribution of clitics in modal constructions by the groups based on the speakers' most frequently used language are shown in Table 8 below.

Table 8. Distribution of climbed versus unclimbed clitics in modal constructions by most frequently used language

Most frequent language	Climbed	Unclimbed	Total
Algherese	22	0	22
Italian	16	6	22
<b>Total</b>	<b>38</b>	<b>6</b>	<b>44</b>

$$\chi^2(2) = 6.9474, p=0.008 (p<0.01)$$

## 5. DISCUSSION

The results show that every speaker in the study demonstrated a very strong preference for clitics to appear in the climbed position in modal constructions in spontaneous speech data. Across the whole sample, 92.3% of clitics appeared in the climbed position while just 7.7% of clitics appeared in the unclimbed position. These findings, while novel, suggest that Algherese is a Type 1 language (see Table 1, §2) like most other varieties of Catalan, in which the climbed position is also preferred in colloquial spoken registers (Gavarró and Laca 2008). Additionally, the pattern in modern Algherese is similar to that found in Old Catalan texts from the 14<sup>th</sup> century, in which CC in modal constructions is optional but strongly preferred (Batllori et al. 2005; cf. Fischer 2000, 2002; Lee 2022).

Given that Catalan was introduced to Alghero following the conquest of the city at the hands of the Crown of Aragon in 1354, it seems that the typological classification of the Catalan variety in Alghero as a Type 1 language has remained diachronically stable.

However, a closer look at the results suggests that Algherese is instead a Type 2 language. Firstly, all 34 examples taken from the online corpora showed clitics in the climbed position without exception. Secondly, only 6 examples of unclimbed clitics were found in the data, all of which were produced in our interviews by speakers that were predicted to show crosslinguistic interference from Italian, a Type 1 language (see Table 1, §2). The differences in behaviour between the groups when controlling for crosslinguistic interference from Italian reached statistical significance. Given that those speakers whose Italian was dominant or who used Italian more often in daily life showed optionality while those whose Algherese was dominant or who used Algherese more often in daily life did not, it is likely that the optionality in CC has emerged in their grammars due to language contact.

The claim that Algherese is a Type 2 language is also plausible from a sociohistorical perspective due to intensive language contact between Algherese and Sardinian, another Type 2 language (see Table 1, §2). Researchers have identified the influence of Sardinian, and the Logudorese variety in particular, in all aspects of Algherese, such as vocabulary (see Bosch 1997), phonology (see Corbera 2003: 323), and morphosyntax (see Bosch 1998: 151), among others. To explain this pervasive influence, Bosch (2002: 27) proposes the Sardinian Substrate Hypothesis, which postulates that Algherese diverges from other varieties of Catalan due in large part to the mass acquisition of Catalan as a second language (L2) by first-language (L1) Sardinian speakers from the 15<sup>th</sup> century until the mid-20<sup>th</sup> century, but particularly during the 16<sup>th</sup> and 17<sup>th</sup> centuries. The mass acquisition of Algherese as an L2 by L1 Sardinian speakers would entail the transfer of linguistic patterns from Sardinian, such as the obligation for CC in modal constructions.

## 6. CONCLUSION

The data and analysis in this study show that clitic climbing in modal constructions in Algerese is obligatory, which makes Algerese a Type 2 variety under the typology of clitic climbing proposed for the Romance languages by Cinque (2006). However, optionality in clitic climbing in modal constructions has emerged in the grammars of some speakers due to language contact with Italian. All speakers in the online corpora produced clitics in the climbed position without exception. Only 6 examples of unclimbed clitics were found in the data from our interviews, all of which were produced by speakers who were predicted to show higher levels of crosslinguistic interference from Italian based on two variables: language dominance and frequency of use.

The typological classification as a Type 2 language distinguishes Algerese from most other varieties of Catalan, which are Type 1 (with the exception of some varieties of Balearic Catalan which are Type 2 as well). Intensive language contact between Algerese and Sardinian, another Type 2 language, in the past (i.e., the Sardinian Substrate Hypothesis) lends plausibility to the claim as well as partially explains the divergence between Algerese and most varieties of Catalan. Thus, the central claim of this work is borne out empirically and plausible socio-historically.

However, further research is required. Most glaringly, the claim that language contact with Sardinian since the 14<sup>th</sup> century caused Algerese to undergo a diachronic change from a Type 1 to a Type 2 language requires a diachronic analysis of CC in Sardinian, and the Logudorese variety in particular. Such a study has not yet been published to our knowledge. Secondly, a mechanism for the transfer of obligation or optionality of CC is required to determine the plausibility of the claim that language contact is the cause of the diachronic change of Algerese from a Type 1 language in the 14<sup>th</sup> century to a Type 2 language currently. This, in itself, presupposes a detailed synchronic analysis of optionality in CC (see Sitaridou 2022 for a claim that CC optionality cannot necessarily be attributed to a single internal (syntactic) or sociolinguistic variable), and CC more generally, something that is yet to crystallise in the literature (for a review, see Sitaridou et al. 2015). Thus, the study of Algerese morphosyntax both in synchrony and diachrony, something that has been understudied in the literature to

date, has potential to inform our understanding of not only clitic climbing but morphosyntax more generally.

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