The Variable Grammar of Negative Concord in Montréal French
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1 Introduction

This paper presents a new study of the grammatical and social factors conditioning variable negative concord in Québec French, with a particular focus on the French spoken in Montréal. It has been observed, since at least Daoust-Blais 1975, Lemieux 1985 and Muller 1991, that negative indefinites (which we will call nwords (Laka 1990)) in certain varieties of French spoken in Canada and in Europe¹ can optionally co-occur with the sentential negation operator pas 'not' without creating a difference in meaning. For example, as shown in (1), taken from the Montréal 84 corpus of spoken Montréal French (Thibault and Vincent 1990), in the speech of the same speaker, the nword rien 'nothing/anything' can either appear bare in a sentence without negation (1a), or it can appear in the scope of pas (1b) to create a synonymous single negation (i.e. negative concord) interpretation.

(1) a. La loi cent un moi j'ai rien contre ça
   The bill 101 me I'have nothing against that
   'I have nothing against Bill 101.' (27 213)
   b. C'est pour ça que j'ai pas rien contre la loi cent un
   It's   for that that I'have not nothing against the bill 101
   'This is why I have nothing against Bill 101.' (27 221)

The study of patterns of variation in negative concord constructions in varieties of English has received an enormous amount of attention in the field of sociolinguistics, particularly in variationist circles (Labov 1972, Tottie 1991, Howe 1997, Nevalainen 2006, Childs et al. 2014, among many others). Furthermore, there have been numerous studies of patterns of variation in another aspect of the French negation system: the presence/absence of the preverbal clitic ne (i.e. Il (ne) parle pas. 'He doesn't talk') (Ashby 1976, Sankoff and Vincent 1977, Armstrong and Smith 2002, Martineau and Mougeon 2003, Poplack and St-Amand 2007, Auger and Villeneuve 2008, among many others). In contrast, with the exception of Daoust-Blais 1975, Lemieux 1985, and Larrivée 2014, there has been very little quantitative investigation into the sociolinguistic factors conditioning the variable use of pas with nwords. This paper therefore contributes to filling this empirical gap with a new quantitative study of variable negative concord in the Montréal 84 corpus. In particular, we show that the use of the concord variant (versus the bare variant) is conditioned by both social factors (age and education level) and grammatical factors (lexical identity and syntactic embedding). Furthermore, we observe that the grammatical factors that are found to significantly condition the variation found in Montréal 84 are properties that have been previously argued to play a role in the non-variable syntax of negative concord in other Gallo-Romance and Italian dialects. Therefore, in addition to shedding light on the linguistic encoding of social categories in 20th century Québec, our results shed light on the fine-grained typology of the syntax of negation in the Romance and Germanic languages.

The paper is laid out as follows: in section 2, we identify the shape of the negative concord variable in Montréal French. Then, in section 3, we describe the quantitative study, and discuss the implications of its results for our understanding of the variable syntax of negation in Romance and the question of change in progress in Québec French. Finally, section 4 gives some concluding remarks.

2 Circumscribing the variable context

As mentioned in the introduction, variable negative concord has been extensively studied for synchronic and diachronic varieties of English; however, it is important to observe that the properties of this phenomenon are subject to a fair amount of cross-linguistic variation. In particular, the shape of the variable can differ across dialects/languages along (at least) three dimensions: 1. the set of syntactic positions in which negative indefinites can optionally co-occur with negation; 2. the inventory of negative indefinites participating in the alternation, and 3. the inventory of non-negative indefinites appearing in the scope of negation. In what follows, we will situate variable negative concord in Montréal French along these three dimensions.

**Syntactic position:** Languages/dialects can differ according to the syntactic configurations in which concord is possible. For example, many of the Gallo-Romance dialects allow variable negative concord with nwords in a position preceding a finite verb hosting negation, as shown in (2) for Vimeu Picard (a Oïl dialect spoken in Northern France) and (3) for Languedocien (an Occitan dialect spoken in Southwestern France).

(2) a. **Mais parsonne n'a voulu m'acouteu.**
But no one n'has wanted me.listen
'But no one wanted to listen to me.' (G. Vasseur)
b. **Parsonne n'a mie bougé.**
No one n'has not moved
'No one moved.' (G. Vasseur)
Examples from the Picartext corpus (cited in Burnett and Dagnac 2014)

(3) a. **jamai volgùet dire ço que sabiá**
never wanted tell what that knew
'He never wanted to tell what he knew.'
b. **N'i ajét planses que jamai vengéron pas.**
Ne'there were many that never came not
'There were many that never came.'
Examples from the Sénaillec-Lauzès corpus (Sibille 2014)

Variable negative concord in Montréal French, however, does not have this property. As observed by Di Sciullo and Tremblay 1996 and Déprez and Martineau 2004, sentences such as (4), said with neutral intonation, elicit very strong judgments of ungrammaticality, and, correspondingly, we find no such utterances in *Montréal 84*.

(4) a. ***Personne a pas bougé.**

b. ***Jamais ils viendront pas.**

Variable negative concord in Montréal French monoclusal utterances is therefore limited to nwords that follow a finite or non-finite verb (such as (1)), and nwords appearing in elliptical constructions, such as in (5).

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2 Out of 78 occurrences of an nword in preverbal position in a matrix clause, none are concord sentences. It is worthwhile to note that in cases of constituent negation, speakers' judgments can differ: for example, Daooust-Blais 1975: 57 marks *Pas personne est venu. as ungrammatical, while Larrivée 2004: 32 marks a structurally similar sentence as grammatical. However, there are no such examples in *Montréal 84*. 
VARIABLE NEGATIVE CONCORD IN MONTRÉAL FRENCH

   'None. No no on influence.' 
   (66 863)
b. Qu'est-ce que tu vas faire avec ça?
   'What are you going to do with that?'
   Ben non, pas rien. (rire)
   'Well no, nothing. (laugh)'
   (7 126)

Montréal French also allows negative concord across certain kinds of tensed clause boundaries, namely complement clauses of Neg Raising/Transportation (Lakoff 1969) verbs (6a) and predicates selecting subjunctive complements (6b).

(6) a. je veux pas que personne l'ampute de quoi que ce soit
   'I don't want anyone to amputate it of anything,'
   (91 858)
b. il est pas question qu'ils fassent rien les gars
   'It is out of the question that they do anything, the guys'
   (4 306)

The addition of extra clausal structure adds another variant to the variable, as shown in (7). Therefore, as is common in variationist studies of negative concord (see, for example, Howe 1997 and Childs et al. 2014), we limit our quantitative study to monoclausal utterances (lower concord).

(7) a. Je pense que Jean a vu personne.
   Bare
b. Je pense pas que Jean a vu personne.
   Upper concord
c. Je pense que Jean a pas vu personne.
   Lower concord
   'I don't think that Jean saw anyone.'

INVENTORY OF WORDS: Another way in which languages can differ concerns the inventory of negative indefinites that can optionally co-occur with negation without creating a double negation interpretation. Many Gallo-Romance dialects allow variable negative concord with a large set of constituents of a wide variety of syntactic and semantic categories, and Montréal French is no exception to this. As shown in the examples below, we find variable negative concord in Montréal 84 with DPs such as personne 'no one' and rien 'nothing', the determiner aucun(e) 'no', adverbials nulle part 'nowhere', jamais 'never', and the conjunction ni...ni 'neither...nor'.

(8) a. je mangeais pas aucun légume.
   'I didn’t eat any vegetables.'
   (4 1526)
b. Je réparerais aucun équipement électronique
   'I would repair no electronic equipment.'
   (6 160)

(9) a. Bah je me suis jamais attardé à la loi-cent-un.
   'Bah I never paid attention to the loi 101.'
   (62 216)
b. le gouvernement a jamais voulu rien faire.
   'The government never wanted to do anything.'
   (62 98)

(10) a. il a pas tué personne au parc Maisonneuve
    'He didn’t kill anyone at Maisonneuve park.'
    (88 124)
b. Dans le fond on connaissait personne
    'At the end of the day, we knew no one.'
    (112 38)

(11) a. je le sais pas encore je peux pas rien dire.
    (72 184)

3Native speaker judgments also suggest that the quantity adverb pantoute 'not at all' allows variation when it appears in an elliptical construction (i) (Burnett and Tremblay 2012); however, in Montréal 84, all occurrences of these kinds of structures are bare. Therefore we exclude pantoute from the quantitative study.

(i) Q: T'as-tu aimé le film?  'Did you like the movie?'
    A: Pantoute!/ Pas pantoute!  'Not at all!'


‘I don’t know it yet I can’t say anything.’

b. puis elle voulait rien savoir de...

‘So she didn’t want to know anything about...’

(12) a. j’ai vu que ça marchait pas à nulle part

‘I saw that it didn’t work out anywhere’

b. il y a la perfection nulle part

‘Perfection is nowhere.’

(13) a. j’aime pas beaucoup ni le thé ni le café.

‘I don’t like either tea or coffee very much.’

b. on a ni l’un ni l’autre

‘We have neither one nor the other.’

However, Montréal French does not allow co-occurrence of pas with the adverbial plus ‘no more’ (14a), and when pas co-occurs with the exceptive prepositions rien-que and que ‘just’, the interpretation is double negation not concord, as shown in (14bc).

(14) a. *On l’a pas plus revu.

Intended: ‘We didn't see him anymore’

b. 1. Il-y-a-tu d’autres choses qui fait ou: que vous préférez aussi cette job là?

2. Bien le salaire aussi [...]Le salaire est meilleur ça c'est: Mais j’aime la job quand même tu-sais: <hum> Pas rien-que pour le salaire: la: J’aime la job quand même.

(27 141)

c. J’aime la job pas que pour le salaire.

‘I like the job not just for the salary.’

Montréal French thus distinguishes itself from other linguistic varieties which allow concord with these elements, such as Picard, Languedocien (Aveyron) and English, for p(l)us/no more (15a-c), and Languedocien (Lot), for que (15d).

(15) a. Un homme comme vous n’dévrouot mie pu pérleu picard.

‘A man like you n’should not no more speak Picard’

(G. Vasseur, cited in Burnett and Dagnac 2014)

b. l’avem pas plus revist

‘We didn't see him anymore.’

(Speaker 748)

c. You shouldn’t speak English no more.

d. Vendían pas que de sucre, d’oliva, de sal.

‘They sold only sugar, olive oil and salt.’

(Sénéillac-Lauzès corpus, Sibille 2014)

INVENTORY OF INDEFINITES: In studies of variable negative concord in varieties of English, it is common to treat the concord variable as constituted of three variants: (what we have been calling) the bare variant (16a), the concord variant (16b), and a third variant featuring the NPI/free choice indefinite any embedded under negation (16c).

(16) a. I found a proof of the theorem in none of these texts.

(Labov 1972: 782 (29b))

b. I didn’t find a proof of the theorem in none of these texts.

(Labov 1972: 784 (29’))

c. I didn’t find a proof of the theorem in any of these texts.

(Labov 1972: 782 (29a))

Although written French features a range of non-negative NPI/free choice indefinites (such as the quelque chose, quoi que ce soit, n’importe quoi or quelconque series), inspection of the Montréal 84 corpus shows that utterances containing these items are not in variation with utterances containing bare nwords or concord structures. For example, there are no examples of quelqu’un (0/11).

4I. Are there other things that make it such that you also prefer that job?

2. Well the salary too [...] The salary is better that’s: But I like the job anyways, you know. <hum> Not just for the salary: there: I like the job anyways.
This being said, setting aside personne and nulle part, there are other nwords for which it may be reasonable to think that there is an additional variant in the mix. For example, in certain syntactic constructions (such as clefts), quelque chose 'something' can appear with pas and the resulting structure has an interpretation that is extremely similar, if not identical, to bare and concord structures with rien (17).

Likewise, DPs headed by the articles un(e) and de can appear within the scope of negation and create an interpretation similar to that found with aucun(ne) (19-20), and this possibility is also available for the disjunction ou 'or', which can create an extra variant for sentences with ni...ni (20).

Thus, we see a distinction within the set of nwords between personne and nulle part on the one hand, which appear in utterances that have no indefinite variant, and rien, aucun and ni...ni that appear in utterances that may have such variants. However, we leave determining the role of non-negative indefinites in the variation to future work.

3 Quantitative Study

This section presents the results of a quantitative study of variable negative concord in the Montréal 84 corpus of spoken Montréal French (Thibault and Vincent 1990). Montréal 84 is composed of 72 sociolinguistic interviews of speakers of a variety of ages, education levels and occupations.\(^6\)

\(^5\)There are 3 occurrences of quelque part following negation; however, in these sentences the indefinite takes wide scope over negation, resulting in an interpretation that is not synonymous with the concord structure with nulle part.

\(^6\)See Thibault and Vincent 1990 for information concerning the constitution of this corpus and the definitions of the different socio-economic categories.
From this corpus, we extracted all the occurrences of the nwords that show a bare/concord alternation: personne, rien, aucun(e), nulle part, jamais, ni..ni. From this set, in addition to the exclusions discussed above, we excluded examples that received clearly double negation interpretations7, as well as negative spread constructions, i.e. utterances containing strings of multiple nwords (Personne va nulle part. 'No one goes anywhere.'). These constructions are well-known to pattern differently from negative concord constructions cross-linguistically (see Giannakidou 2006 for an overview). Thus, we leave the question of integrating the negative spread constructions into a broader theory of (non)variable negative dependencies in Montréal French as a project for the future.

We also excluded nwords in repetition sequences, since nwords that are not first in the sequence cannot co-occur with negation. For example, in an utterance like Ah non. Jamais jamais. (8 1244), the second jamais was excluded. Likewise, nwords modified by an adverb referencing the top endpoint of a scale such as absolument ‘absolutely’, presque ‘almost’, pratiquement ‘practically’, and quasiment ‘almost’ were excluded, since modification by this class of adverbs uniformly blocks negative concord in Québec French (Déprez and Martineau 2004:10) and cross-linguistically (Giannakidou 2006).

With these exclusions, the resulting dataset of nwords consists in 2399 occurrences over 6 nwords, with the overall rate of concord being 11%.

<table>
<thead>
<tr>
<th>Nword</th>
<th>Bare variant</th>
<th>Concord variant</th>
<th>Total</th>
<th>% Concord</th>
</tr>
</thead>
<tbody>
<tr>
<td>nulle part</td>
<td>3</td>
<td>15</td>
<td>18</td>
<td>83%</td>
</tr>
<tr>
<td>personne</td>
<td>49</td>
<td>71</td>
<td>120</td>
<td>59%</td>
</tr>
<tr>
<td>ni...ni</td>
<td>37</td>
<td>13</td>
<td>50</td>
<td>26%</td>
</tr>
<tr>
<td>rien</td>
<td>800</td>
<td>137</td>
<td>937</td>
<td>15%</td>
</tr>
<tr>
<td>aucun</td>
<td>134</td>
<td>16</td>
<td>150</td>
<td>11%</td>
</tr>
<tr>
<td>jamais</td>
<td>1113</td>
<td>11</td>
<td>1124</td>
<td>1%</td>
</tr>
<tr>
<td>Total</td>
<td>2136</td>
<td>263</td>
<td>2399</td>
<td>11%</td>
</tr>
</tbody>
</table>

Table 1: Negative concord in Montréal 84 by nword

As shown in Table 1, there are enormous differences in the rate of the use of the concord variant depending on the identity of the negative indefinite. In particular, we can distinguish three subsets of nwords: {nulle part, personne}, whose members prefer to appear in concord structure (83% and 59%, respectively), {ni...ni, rien, aucun}, whose rates of concord are between 10-26%, and {jamais}, which strongly disprefer to be used in a concord structure. Recall that we suggested that concord sentences with ni...ni, rien, and aucun may be in variation with sentences containing non-negative indefinites, thus it is possible that the presence of weak indefinite constituents in the language has an effect on the distribution of bare nwords in that language. However, we leave the elaboration of this hypothesis to future work.

7For example: Un gars qui parle bien pour moi c'est un gars comme Robert Charlebois. <hum> Un gars qui: bien Robert Charlebois a: a déjà sacré comme tout le monde, il doit sacer encore de toute façon <humhum> mais: un gars qui a: qui prend pas des mots: longs comme ça: pour rien. (113 606)
3.1 Social and Grammatical Factors Tested

Given the low number of occurrences of both nulle part and ni...ni in the corpus, we set occurrences of these two nwords aside in the statistical analyses. The final dataset featured in the analyses below consists of 2331 occurrences over 4 nwords.

As mentioned above, Montréal 84 is annotated with socio-economic information, including the participants' age, sex (male/female), level of education (low, medium, high, and in progress), and occupation (professionals and company heads (professions libérales et patrons d'entreprise), employed with university diplomas, technicians and forepeople, white collar workers, blue collar workers, people without stable employment). In this study, we investigated whether age (as a continuous factor), sex and education level significantly conditions negative concord. We also checked for interactions between these factors. Since occupation is highly correlated with education in the dataset, we did not include this factor in the analyses. The choice to focus on the effect of education rather than occupation in this paper was motivated by the possibility of comparison with the results of Lemieux 1985's quantitative study of negative concord with rien in the earlier Sankoff-Cedergren (1971) corpus (Sankoff and Vincent 1977), which looked at the effects of education rather than profession.

As discussed in section 2, one of the most important ways in which negative concord systems can vary typologically is in which syntactic configurations can license the concord relationship. We saw above that such a relationship can only be established between an nword and negation in Montréal French when the nword follows the finite verb or is in an elliptical construction. However, we might wonder whether, within these linguistic contexts, certain syntactic configurations favour concord more than others. Indeed, research into the (non-variable) syntax of negative concord in Italian dialects has shown that the degree of syntactic embedding can have an effect on the grammaticality of a concord structure. For example, Zanuttini (1997) shows that in Piedmontese, the postverbal sentential negation marker nen cannot co-occur with an nword such as gnun 'no one' if gnun is the direct object of a 'simple' verb (i.e. it does not consist of an auxiliary and a past participle (Zanuttini 1997:76)) (22a). However, if the nword is embedded under a participle (22b) or within a prepositional phrase (22c), then negative concord is grammatical.

(22)  
a. *A veddu nen gnun. \  \  \  \  \  \  \  Intended: 'I don't see anyone'.
b. I l'hai nen vist gnun  \  \  \  \  \  'I have not seen anyone.'
c. A parla nen cun gnun  \  \  \  \  \  'He doesn't talk with anyone,'  \  \  \  \  \  All cited from Zanuttini 1997:77

To investigate whether the same syntactic constraints that hold at the grammaticality level in Piedmontese hold at the preferential level in Montréal French, we coded for syntactic embedding: elliptical constructions and direct objects or modifiers of a 'simple' verb or auxiliary verb (23a) were coded as having no embedding. Nwords embedded under participles, infinitives and within prepositional or determiner phrases were coded as embedded (23b-d).

(23)  
a. Ou il-y-aura pas personne dans la maison  \  \  \  \  \  No embedding  \  \  \  \  \  (66 1203)
b. ça l'a pas arrangé rien  \  \  \  \  \  Embedding  \  \  \  \  \  (15 1369)
c. tu peux pas voir personne  \  \  \  \  \  Embedding  \  \  \  \  \  (93 191)
d. Puis: il embarque pas dans rien.  \  \  \  \  \  Embedding  \  \  \  \  \  (4 851)
Another grammatical factor that has been argued to play a role in variation in the negative system is modification, particularly whether the nword is modified either by a relative clause or by a *de* phrase (24a).^8^

(24) a. Il y a rien d’insultant dans ça Modified
   ‘There's nothing insulting in that’
   (50 1249)

b. Il y a rien dans ça Not Modified

We therefore investigated whether syntactic embedding or modification (or any interaction between the two) plays a role in variable negative concord. To accommodate the enormous lexical effect described above, we included *nword identity* (*jamais, rien, personne, aucun*) as a random effect in the analyses of linguistic factors. We ran step-up step-down analyses with Rbrul (Johnson 2009), with the concord variant (*J'ai pas vu personne*) as application/response value.

### 3.2 Results

With respect to social factors: both education level (Table 2) and age (logodds: 0.011; *p* < 0.01) were significant. In other words, there is a slight effect of older speakers favouring the use of *pas* with nwords and a larger effect of less educated speakers favouring negative concord.

<table>
<thead>
<tr>
<th>Factor Group</th>
<th>Factor</th>
<th>Factor Weight</th>
<th>% Concord</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education level</td>
<td>Low</td>
<td>0.613</td>
<td>14</td>
<td>750</td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>0.539</td>
<td>11</td>
<td>710</td>
</tr>
<tr>
<td></td>
<td>In progress</td>
<td>0.487</td>
<td>7</td>
<td>149</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>0.362</td>
<td>5</td>
<td>722</td>
</tr>
</tbody>
</table>

*p* < 0.001 Range: 25

Table 2: Non continuous social factors conditioning use of negative concord in *Montréal 84*

These results line up with those found by Lemieux 1985, who also found that both age and education level significantly condition negative concord with *rien* in her study of the Sankoff-Cedergren corpus. Furthermore, Daoust-Blais 1975 reports a higher rate of concord with both *personne* (70.6%) and *rien* (15.4%) in the Sankoff-Cedergren corpus than we have found in *Montréal 84* (59% and 15% respectively); therefore, there are reasons to believe that is a change in progress in favour of devernacularisation. This being said, Daoust-Blais’ results are difficult to interpret in relation to ours because she only looked at a subset of Sankoff-Cedergren, so we do not know what the overall rate of concord is in the 1971 corpus. Thus, more detailed study of the Sankoff-Cedergren corpus is required to establish the existence and direction of change.

With respect to the grammatical factors, the only significant factor was *syntactic embedding*:

^8^See, for example, Bruneau 1949, Marchello-Nizia 1997 and Martineau 2009 for arguments that the presence of a partitive *de* phrase significantly conditions the use of certain kinds of postverbal negators in Old French and other Gallo-Romance varieties, also Lemieux 1985 for concord with *rien*. 
Table 3: Grammatical factors conditioning the use of negative concord in Montréal 84

Thus, we see that the same syntactic configurations that create grammaticality contrasts in certain Italian dialects also create frequency contrasts in the French dialect under study. Interestingly, the pattern described by Zanuttini for Piedmontese, which, in our study, we find instantiated in Montréal French, only holds for one of Piedmontese's two postverbal negation markers. In addition to *nen*, whose distribution in concord structures is sensitive to the level of syntactic embedding of the nword, this Italian dialect has another marker, *pa*, which has different syntactic properties and whose distribution is not constrained in the same way. That is, negative concord is possible with *pa* when the associated nword is the direct object of a 'simple' verb (i.e. *A veddu *pa* gnun*.* I don't see anyone*) (Zanuttini 1997:77)). We therefore suggest that the results of our quantitative study give a new argument in favour of pursuing a syntactic analysis of Québécois *pas* along the lines of Piedmontese *nen*, rather than *pa*; however, we leave further exploration of this idea to future work.

4 Conclusion

This paper presented a new quantitative study of variable negative concord in Montréal French, as observed in the *Montréal 84* corpus. We showed that variable concord in this dialect distinguishes itself from other instantiations of this variable in Gallo-Romance dialects and dialects of English through 1. the syntactic configurations in which variation is possible, 2. the set of nwords that allow variation, and 3. the set of non-negative indefinites that can appear under negation. We then showed that, in addition to being highly conditioned on nword identity, variable concord was conditioned by speaker education, age and syntactic embedding of the associated nword. The conditioning social factors correspond to similar findings by Lemieux 1985 in the 1971 Sankoff-Cedergren corpus and suggest that there is a change in progress. Additionally, the conditioning grammatical factor corresponds to previously observed patterns of (non-variable) negative concord in Italian dialects. Our results thus provide new insight into both the social conditioning of variation in the Québec French negation system and the typological relationships between this system and other systems of negation and negative concord in Romance.

References


*Likewise, Lemieux 1985:114 finds a significant difference in the use of *pas* with *rien* in utterances with 'simple' verbs rather than with verbs composed of an auxiliary and a participle in the Sankoff-Cedergren corpus. In our study, this distinction is a subcase of the (un)embedded distinction; therefore, there are reasons to think that syntactic embedding is also significant in the 1971 corpus.


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