

Non-Restrictive Relative Clauses in Arabic

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Abstract

This paper discusses the syntax of non-restrictive relative clauses in Modern Standard Arabic (MSA). It provides a thorough description of their structures and attempts to offer a preliminary analysis within the transformational framework: Minimalist syntax. Two relativization strategies are available for Arabic non-restrictive relative clauses. The first strategy is similar to that of definite restrictive relatives in which the relative clause is initiated by *ʔalla ʔi* which is a relative complementizer, whereas the second strategy is a unique one in which the relative clause is initiated by the special particle *wa*, appears to be a specifying coordinator, along with the complementizer *ʔalla ʔi*. The paper also argues that De-Vries's (2006) coordinate approach to appositive relatives can provide a straightforward account for some the facts of non-restrictive relative clauses in Arabic.

Keywords: restrictive, non-restrictive, coordinator, relative complementizer

1. Introduction

The syntax of relative clauses that has been the focus of much interest among linguists since Ross (1967). There is a considerable number of significant discussions of relative clauses in English and other languages (see e.g. Jackendoff, 1977; Chomsky, 1977; Fabb, 1990; Kayne, 1994; Borsley, 1992, 1997; Alexiadou et al., 2000; Arnold, 2004, 2007; Bianchi, 1999, 2000, 2002a, 2002b; de Vries, 2002, 2006; and Aoun & Li, 2003). However, the syntax of Arabic relative clauses has received very limited attention in the literature. Although there are some previous generative work on relative clauses in Arabic (see e.g. Ouhalla, 2004; Aoun, Benmamoun and Choueri 2010; Alqurashi & Borsley, 2012; Alqurashi, 2016), the focus was on restrictive relative clauses (henceforth, RRCs) and headless/free relatives only. To the best of my knowledge, neither a description nor a formal analysis of non-restrictive relative clauses (henceforth, NRRCs) in MSA has been provided yet. Moreover, it seems that this type of relative clauses has not been noticed in traditional Arab grammatical literature. Therefore, this paper aims to describe NRRCs in MSA and to provide a preliminary analysis within the transformational framework: Minimalist syntax.

Semantically, the difference between a RRC and a NRRC lies in the fact that the former provides essential information to identify the referent (i.e. the modified noun) whereas the latter provides additional information about the referent, which can be identified independently. Examples of definite RRCs and NRRCs in MSA are given in (1) and (2) below, respectively.

(1) Restrictive Relatives:

a. maata r-rajul-u lla ʔi zaara ___ l-mdrast-a.
died.3.M.SG DEF-man-NOM that.M.SG visited.3.M.SG DEF-school-ACC

‘The man who/that visited the school yesterday died.’

b. jaaʔa r-rajul-u lla ʔi tuhib-**hu** l-fatat-u.
came.3.M.SG DEF-man-NOM that.M.SG love.3.F.SG-3.M.SG DEF-girl-NOM

‘The man who/that the girl loves came.’

(2) Non-restrictive Relatives:

a. fii ʕaam-i 2016, maata Muhammad-u Ali-in lla ʔi kaan ___
in year-GEN 2016, died.3.M.SG Muhammad-NOM Ali-GEN that.M.SG was.3.M.SG
min ʔaʕhari ʔabTaal-i l-mulaakamat-i fii l-ʕaalam

of most-famous-GEN champions-GEN DEF-boxing- GEN in DEF-world
 ‘Muhammad Ali, who was one of the most famous boxing champions in the world,
 died in 2016.’

- b. fii ʕaam-i 2016, maata Muhammad-u Ali-in Ila ǫi yaʕrifu-**hu**
 in year-GEN 2016, died.3.M.SG Muhammad-NOM Ali-GEN that.M.SG know.3.M.SG-3.M.SG
 muʕǫam-u I-naas-i.
 most-NOM DEF-people-GEN
 ‘Muhammad Ali, whom most people know, died in year 2016.’

A preliminary look at Arabic NRRCs shows they have the same structure as that of definite RRCs, discussed in Alqurashi & Borsely (2012), which are introduced by the relative complementizer *ʔalla ǫi* followed by a clause which might contain either a gap or a resumptive clitic. However, the examples in (2) have a proper name as the antecedent which makes them non-restrictive. It is quite accepted that relative clauses with proper nouns as their heads can only have a non-restrictive interpretation.

However, I will show in this paper that there is a further relativization strategy available for Arabic NRRCs which involves the insertion of the particle *wa* immediately before *ʔalla ǫi*. This particle is crucial to mark the non-restrictive/appositive interpretation of relative clauses. I argue that *wa* is best seen as what De Vries (2006) calls a ‘specifying coordinator’. I also argue that Arabic data can be handled straightforwardly within De-Vries’s (2006) coordinate approach to appositive relatives.

The remaining of this paper will be as follows. In section 2, I will consider the basic semantics and phonological properties of NRRCs. Then in section, I will discuss the syntactic properties and distribution of NRRCs. In section 4, I will investigate the nature of the relative marker *ʔalla ǫi* and the nature of the particle *wa* to determine their categorical status. Then, I will consider in section 5 a preliminary analysis for Arabic NRRCs within transformational grammar. Finally, I will conclude the paper in section 6.

2. Some Semantic and Phonological Properties

It has been widely observed that NRRCs differs from RRCs not only in their semantic properties but also in their phonological and syntactic ones (see Fabb, 1990; Borsley, 1992, 1997; Arnold, 2004,2007; Camilleri & Sadler, 2011) (Note 2). From a semantic prospective, RRCs restrict or narrow down the identity of their referent (i.e. the modified noun) to be a member of a specific class whereas NRRCs do not. Simply, while RRCs provide essential information for the identification of the referent, NRRCs provide additional information about the referent, which can be identified independently. Thus, NRRCs but not RRCs can be easily omitted from the sentence without affecting the interpretation. In addition, the additional information which the NRRC provides can be then expressed by a separate sentence as shown in (3) below which expresses almost the same meaning expressed by (2a) above.

- (3) maata Muhammad-u Ali-in ʕaama 2016. huwa kaan min
 died.3.M.SG Muhammad-NOM Ali-GEN year 2016 he was.3.M.SG of
 ʔaʕhari ʔabTaal-i I-lmulaakamat-i.
 most-famous-GEN champions-GEN DEF-boxing- GEN
 ‘Muhammad Ali died in year 2016. He one of the most famous boxing champions.’

From a phonological prospective, NRRCs, unlike RRCs, have distinct intonational features. Thus, in speech, NRRCs are often separated from the antecedent by an intonation break (i.e. a small pause). In writing, this is represented by the use of commas in English as NRRCs are often preceded and followed by commas. This has been observed in English and some other languages like Maltese (see, Arnold, 2007; Camilleri & Sadler, 2011). However, this phonological distinction between NRRCs and RRCs is not observed in Arabic as both types of relative clauses in (1) and (2) above are pronounced with the same intonational pattern. Consequently, neither pauses (in speech) nor commas (in written forms) are used in Arabic NRRCs to indicate some sort of phonological distinction. Due to the lack of the phonological distinction between RRCs and NRRCs which is essential to identify the latter, I was inclined to use relative clauses with a proper noun as the antecedent in the previous NRRCs examples, which is generally accepted to be antecedent of non-restrictives.

However, NRRCs can be expressed sometimes with the morpheme */wa/* immediately preceding the relative marker. Badawi *et al* (2004: 503), in their modern descriptive work on Arabic, states that "Restrictive and non-restrictive

relative clauses do not have to be formally distinguished". They briefly point out that there is an alternative way to distinguish NRRCs by introducing them with /wa/ as illustrated by the example in (4) provided by them.

- (4) ?illaa ?anna fikra-**hu** l-qaatiʕ-a l-Saarim-a l-mutašaddid-a
 although COMP thought-3.M.SG DEF-dicisive-ACC DEF-relentless-ACC DEF- severe-ACC
wa-lla ʕi Tarahah-**hu** fi kitaab-i-**hi**
 PART- that.M.SG presented.3.M.SG-3.M.SG in book-GEN-3.M.SG
 ‘although his decisive, **severe**, relentless thought, which he presented in his book’
 (Badawi et al, 2004: 503)

In fact, introducing the NRRCs in (2) above with /wa/ will make the sentences sound better as shown in (5) below. I believe that using the particle /wa/ necessitates the existence of a small pause in order to separate the relative clause from the modified noun. It should be mentioned here, however, that the morpheme /wa/ is an equivalent of ‘and’ in English, but it is not clear at this stage whether to treat it as a coordinator or as something else, as this will be discussed later (see section 5 for more discussion on the nature of /wa/).

(5) **Non-restrictive Relatives with /wa/:**

- a. fii ʕaam-i 2016, maata Muhammad-u Ali-in wa-lla ʕi
 in year-GEN 2016, died.3.M.SG Muhammad-NOM Ali-GEN PART-that.M.SG
 kaana min ?ašhari ?abTaal-i l-mulaakamat-i fii l-ʕaalam
 was.3.M.SG of most-famous-GEN champions-GEN DEF-boxing- GEN in DEF-world
 ‘Muhammad Ali, who was one of the most famous boxing champions in the world,
 died in 2016.’
- b. fii ʕaam-i 2016, maata Muhammad-u Ali-in wa-lla ʕi
 in year-GEN 2016, died.3.M.SG Muhammad-NOM Ali-GEN PART-that.M.SG
 yaʕrifu-**hu** muʕðʕam-u l-naas-i.
 know.3.M.SG-3.M.SG most-NOM DEF-people-GEN
 ‘Muhammad Ali, whom most people know, died in year 2016.’

Badawi et al (2004) neither discuss this any further nor present any argument, which might be due to the general descriptive nature of their work. I claim that the use of *wa* in the above relative clauses in (4) and (5) yields in a non-restrictive interpretation only based on the following evidence. It has been attested in Arabic literature that the morpheme /wa/ is obligatorily used sometimes along with a small pause as a break to separate a phrase or a clause from a preceding element to avoid misinterpretation. Consider the following: (Note 3)

- (6) laa ?aafaa-ka ALLAH.
 no healed.3.M.SG-2.M.SG ALLAH (God)
 ‘may ALLAH (GOD) not keep you healthy.’
- (7) laa **wa** ?aafaa-ka ALLAH.
 no PART healed.3.M.SG-2.M.SG ALLAH (God)
 ‘No, may ALLAH (GOD) keep you healthy.’

These examples show clearly that the use of the particle *wa* is of great significance to the meaning as it prevents wrong interpretation. The initial intended meaning in (6) is the same as in (7), but the lack of the particle *wa* yields a completely different meaning. Additionally, the use of the particle *wa* necessitates the existence of a small pause before pronouncing it in order to separate the negation particle *la* “no” from the rest of the sentence.

Having considered the semantic and phonological properties of NRRCs, let us now discuss the syntactic properties that distinguishes them from RRCs. This, however, will be dealt with in the following section.

3. Syntactic Properties and Distribution

Based on the discussion above, we can now say that NRRCs in Arabic use two strategies. The first is exactly similar to the relativization strategy used to generate definite RRCs which consist of a relative complementizer followed by a clause in which either a resumptive clitic or a gap exists, as shown in (1) and (2) above. The second strategy

involves the use of the particle *wa* which is inserted immediately before *ʔalla ǿ* that introduces the relative clause in which there is either a resumptive clitic or a gap, as shown in (5) above. Different examples are given in (8) and (9) to represent the two types of Arabic NRRCs, respectively. Note that *ʔalla ǿ* is always inflected for gender and number and sometimes case as a result of agreement with the antecedent, as will be shown later in section 4. (Note 4)

- (8) yaʔiišu Sadiiqi fii Paariis llatii hiya madiinat-u-n kabiirah.
 live.3.M.SG my friend in Paris-NOM that.F.SG it/she city.F-NOM-INDEF big.F
 ‘My friend lives in Paris, which is a big city.’

- (9) yaʔiišu Sadiiqi fii Paariis wa-llatii hiya madiinat-u-n kabiirah.
 live.3.M.SG my friend in Paris-NOM PART-that.F.SG it/she city.F-NOM-INDEF big.F
 ‘My friend lives in Paris, which is a big city.’

The question arises here is why the second strategy is needed to express NRRCs in Arabic. As mention above, the intonational properties that exist in English NRRCs are not observed in Arabic. With the lack of these properties, it would be difficult to distinguish NRRCs from RRCs. Thus, the particle *wa*, whose use necessitates the existence of a small pause, is inserted pre-*ʔalla ǿ* to ensure that the NRRC is set off prosodically. Moreover, relative clauses modifying proper nouns are easy to distinguish because they can only have a non-restrictive interpretation. However, this is not with case with NRRCs modifying common nouns as they are difficult to be distinguished from RRCs. Therefore, this might evoke the use *wa* as a means of distinction. To illustrated further consider the following examples.

- (10) s-sayarat-u latii lawnu-ha ʔswad ǧaliyat-u l-θaman. (RRC)
 DEF-cars-NOM that.F.SG colour-3.F.PL black expensive-NOM DEF-price
 ‘The cars which are black are expensive.’

- (11) s-sayarat-u wa-llatii lawnu-ha ʔswad ǧaliyat-u l-θaman. (NRRC)
 DEF-cars-NOM PART-that.F.SG colour-3.F.PL black expensive-NOM DEF-price
 ‘The cars, which are black, are expensive.’

The sentence in (10), which contains a RRC, implies that the black cars are distinguished from other cars which are not black (i.e. only black cars are expensive but others are not). On the other hand, the sentences in (11), which contains a NRRC, implies that all the cars referred to here are black. It would be impossible to express the meaning in (11) if the particle *wa* was not used pre-*ʔallatii* to introduce the relative clause.

The case is somehow different in RRCs which are of two types: definite (with a definite antecedent) and non-definite (with an indefinite antecedent). As pointed out above, the first strategy used to generate NRRCs is also used to generate definite RCs in MSA. As for the indefinite relative clause, a different strategy is used in which no relative complementizer appears and hence the relative clause is just a simple clause in which there is either a resumptive clitic or a gap as demonstrated by the following examples:

(12) **Indefinite Restrictive Relatives:**

- a. raʔaytu rajul-u-n zaara ___ l-mdrast-a l-baariħata.
 saw.1.SG man-NOM-INDEF visited.3.M.SG DEF-school-ACC DEF-last night
 ‘I saw a man who/that visited the school yesterday.’
- b. raʔaytu. rajul-u-n tuħib-ħu l-fatat-u.
 saw.1.SG man-NOM-INDEF love.3.F.SG-3.M.SG DEF-girl-NOM
 ‘I saw a man who/that the girl loves.’

Another fundamental syntactic difference between NRRCs and RCCs is that the former can have a non-nominal antecedent but not the latter. More specifically, the antecedent of a NRRC can be a VP, a PP, an AdjP, an AdvP. This has been attested in English (see e.g.; Borsley, 1992; Arnold, 2004,2007; De Vries, 2006; Citko, 2008), and in other languages (see e.g. Jackendoff, 1977 and Camilleri & Sadler, 2011). This is also the case in MSA as non-nominal antecedents can appear only in NRRCs. More specifically, NRRCs can have a non-nominal antecedent only if the second strategy is used (i.e. introduced with *wa-lla ǿ*). Consider the following examples, where the antecedents are bracketed:

- (13) a. [faazat Hind-u fi l-musabaqat-i] wa-lla ǎi ʔasarani kaθiiran.
 won.3.F.SG Hind-NOM in DEF-competition-GEN PART-that.M.SG pleased.3.M.SG-2.M.SG a lot
 ‘Hind won the competition, which pleased me a lot.’
- b. *[faazat Hind-u fi l-musabaqat-i] lla ǎi ʔasarani kaθiiran.
 won.3.F.SG Hind-NOM in DEF-competition-GEN that.M.SG pleased.3.M.SG-2.M.SG a lot
 ‘Hind won the competition which pleased me a lot.’
- (14) a. [istaqaalt] Hind-u min ʕamali-**ha** wa-lla ǎi lan ʔafʕal-**hu** ʔabada.
 resigned.3.F.SG Hind-NOM from work-3.F.SG PART-that.M.SG NEG do.1.SG-3.M.SG never
 ‘Hind resigned from her work, which I will never do.’
- b. *[istaqaalt] Hind-u min ʕamali-**ha** lla ǎi lan ʔafʕal-**hu** ʔabada.
 resigned.3.F.SG Hind-NOM from work-3.F.SG that.M.SG NEG do.1.SG-3.M.SG never
 ‘Hind resigned from her work, which I will never do.’
- (15) a. Ali-un [haziil-un jiddan] wa-lla ǎi lam ʔatawaqʕ-**hu** ʔan
 Ali-NOM thin.3.M.SG-ACC very PART-that.M.SG NEG.PAST expected.1.SG-3.M.SG COMP
 yakuuna ka ǎalik.
 be.3.M.SG like-that
 ‘Ali looked very thin, which I did not expect that he will be.’
- b. *Ali-un [haziil-un jiddan] lla ǎi lam ʔatawaqʕ-**hu** ʔan
 Ali-NOM thin.3.M.SG-ACC very that.M.SG NEG.PAST expected.1.SG-3.M.SG COMP
 yakuuna ka ǎalik.
 be.3.M.SG like-that
 ‘Ali looked very thin, which I did not expect that he will be.’

The above examples show clearly that NRRCs but not RRCs can have a non-nominal antecedent. The antecedent is a clause in (13), a VP in (14) and an AdjP in (15), thus it must be followed by a NRRC to be acceptable as in (13a), (14a) and (15a). It is unacceptable to have a RRC with these antecedents as (13b), (14b) and (15b) demonstrate.

Furthermore, Arnload and Borsley (2008) note that NRRCs differ from RRCs in English in that the former can have elliptical answers to questions and propositional lexemes like *yes* as antecedents as shown below:

- (16) A: Who owns a dog?
 B: Kim, which is regrettable. (Arnload and Borsley, 2008:327)
- (17) A: Does Kim own a dog?
 B: Yes, which is regrettable. (Arnload and Borsley, 2008:328)

We have the same situation in Arabic as the following examples illustrate:

- (18) A: man kasara l-naafi ǎat-a?
 who broke-3.M.SG DEF-window-ACC
 ‘Who broke the window?’
- B: Zyed, wa-lla ǎi kaan muʔssif-an jiddan
 Zayd PART-that.M.SG was regrettable-ACC very
 ‘Zayd, which was regrettable.’
- (19) A: hal kasara Zyed-un l-naafi ǎat-a?
 who broke-3.M.SG Zyed-NOM DEF-window-ACC
 ‘Who broke the window?’
- B: naʕam, wa-lla ǎi kaan muʔssif-an jiddan
 yes PART-that.M.SG was regrettable-ACC very
 ‘Yes, which was regrettable.’

4. On the Nature of *ʔalla ǿ* and *wa*

In Arabic NRRCs, the relative marker *ʔalla ǿ* agrees with its antecedent in number, gender and case. Hence it has different forms as the following table illustrates:

Table 1. Forms of *ʔalla ǿ*

	Singular	Dual Nominative	Dual Accusative/ Genitive	Plural
Masculine	<i>ʔalla ǿ</i>	<i>ʔalla ǿani</i>	<i>ʔalla ǿayni</i>	<i>ʔalla ǿina</i>
Feminine	<i>ʔallati</i>	<i>ʔallataani</i>	<i>ʔallatayni</i>	<i>ʔallaati/ʔallawaati</i>

In addition, the resumptive clitic or the gap within the relative clause agree also with *ʔalla ǿ* since they have to agree with the antecedent. This is demonstrated by the following examples:

- (20) jaaʔa Ahmad-u lla ǿi zaara ___ l-mdrast-a l-baarihah.
 came.3.M.SG Ahmad-NOM that.M.SG visited.3.M.SG DEF-school-ACC DEF-last night
 ‘Ahmad, who visited the school last night, came.’

- (21) yaʔiiʂu Sadiiqi fii Paariis wa-llatii ʔuhib-haa kaθiirun.
 live.3.M.SG my friend in Paris-NOM PART-that.F.SG love.1.SG-3.F.SG a lot
 ‘My friend lives in Paris, which I love a lot.’

In (20a) and (21), the antecedent is masculine singular and thus the masculine singular form *lla ǿi* is used, whereas the antecedent in (21) is feminine singular and thus the feminine singular form *llati* is used. In addition, the gap in (20), which appears in subject position, and the clitic *haa* in (21) show agreement with both their antecedents and the relative complementizer. The agreement features of the gap (number and gender) can be identified by the associate verb *zaara* which is inflected as third-person masculine singular.

Furthermore, the relative complementizer also agrees with its antecedent in case, which appears only in the dual form. However, it should be noted here that when the antecedent the position being relativized bear different cases, the complementizer *ʔalla ǿ* carries the case of former, not that of the latter. Thus, in (22) below, *lla ǿani* does not bear an accusative case like that of the position being relativized, but rather a nominative case like that of its antecedent. In (23) below, the antecedent is genitive whereas the position being relativized (*-humaa*) is accusative and hence *ʔalla ǿayni* bears genitive case like its antecedent.

- (22) ʔxtraʔaa ʔal-ʔaxawaani Raayits (wa)-lla ǿani
 invented.3.M.DUAL DEF-brother.DUAL.NOM Wrights PART-that.M.DUAL.NOM
 yʔrifu-humaa muʔðʕam-u l-naas-i ʔawal Taʔirah.
 know.3.M.SG-3.DUAL most-NOM DEF-people-GEN first plane
 ‘The two brothers Wright, whom most people know, invented the first plane.’

- (23) qarʔatu ʕan l-ʔaxawayni Raayits (wa)-lla ǿayni
 read.1.SG about DEF-brother.DUAL.GEN Wrights PART-that.M.DUAL.GEN
 yʔrifu-humaa muʔðʕam-u l-naas-i.
 know.3.M.SG-3.DUAL most-NOM DEF-people-GEN
 ‘The two brothers Wright, whom most people know, invented the first plane.’

This can be used as evidence that the relative marker *ʔalla ǿ* cannot be seen as a relative pronoun, but rather as a complementizer, as argued by Alqurashi & Borsely (2012) and Alqurashi (2016). If *ʔalla ǿ* is a relative pronoun, we would expect it to bear the case of the relativized position as relative pronouns usually do. Consider the examples in (24) from English where the relative pronoun carries the case of the associated gap and not that of the antecedent.

- (24) a. The dean of the college, who met the new students yesterday, is giving a talk.
 b. The dean of the college, whom the new students met yesterday, is giving a talk.

A further evidence that *ʔalla ǿ* is a complementizer comes from the fact that it is impossible for *ʔalla ǿ* to be in a larger clause-initial phrase like a PP or DP (see also Alqurashi & Borsely, 2012 and Alqurashi, 2016). One would

expect that to be possible if *ʔalla ǿ* is a relative pronoun. Let us now examine whether this is applicable to *ʔalla ǿ* in NRRCs. Consider the following:

- (25) a. *Jeddah [[_{PP} fi llatii] yaʕiiʕu ʔaxii madiinat-u-n kabiirh]].
 Jeddah-NOM in that.F.SG live.3.M.SG my.brother city-NOM-INDEF big
 ‘Jeddah, in which my brother lives, is a big city.’
 b. *Ibrahiim-u [[_{DP} kitaab lla ǿ] qarʔatu]
 Ibrahiim-NOM book that.M.SG read. PAST.2.M.SG
 ‘Ibrahim, whose book I read’

The above ungrammatical examples show clearly that *ʔalla ǿ* in NRRCs does not allow pied piping. Thus, instead of (25), we have the examples in (26) in which the preposition and the noun remain in-situ with resumptive clitics.

- (26) a. Jeddah [llatii yaʕiiʕu fi-ha ʔaxii madiinat-u-n kabiirt-u-n].
 Jeddah-NOM that.F.SG live.3.M.SG in-3.M.SG my.brother city-NOM-INDEF big-NOM-INDEF
 ‘Jeddah, in which my brother lives, is a big city.’
 b. Ibrahiim-u [lla ǿ qarʔatu kitaab-a-hu]
 Ibrahiim-NOM that.M.SG read. PAST.2.M.SG BOOK- ACC-3.M.SG
 ‘Ibrahim, whose book I read’

It is not surprising, then, to see *ʔalla ǿ* introducing different types of relative clauses since it is just a relative complementizer. (Note 6)

It is also crucial to the analysis to determine the categorial status of *wa*; whether it must be seen as a standard conjunctive element or as something else. In MSA, the morpheme /*wa*/ has different uses, but it is mainly used as a conjunctive element. The fact that *wa* is used sometimes pre-*ʔalla ǿ* to introduce non-restrictive relative clauses has been overlooked by old traditional Arab grammarians. However, this issue is under debate among some current Arab scholars. Some assume that *wa* is a special relative element used sometimes pre-*ʔalla ǿ* to introduce relative clauses while others reject this assumption and consider it even radical; this is on the basis that its presence causes ambiguity. Consider the following example.

- (27) jaaʔa Ahmad-u wa-lla ǿi zaara l-mdrast-a l-baarihah.
 came.3.M.SG Ahmad-NOM PART-that.M.SG visited.3.M.SG DEF-school-ACC DEF-last night.
 ‘Ahmad, who visited the school yesterday, came.’
 ‘Ahmad and the one that visited the school yesterday came.’

The presence of *wa* creates semantic ambiguity in (27) above as illustrated in the translation lines. The first meaning results from treating *wa* as a special particle added to the relative complementizer *ʔalla ǿ* to give the relative clause a non-restrictive interpretation. The second meaning results from treating *wa* as a coordinator combining a free/headless relative clause with another clause. Free/headless relative clauses in MSA can be introduced by the relative complementizer *ʔalla ǿ* as in (28).

- (28) jaaʔa lla ǿi zaara ___ l-mdrast-a l-baarihah.
 came.3.M.SG that.M.SG visited.3.M.SG DEF-school-ACC DEF-last night
 ‘Who visited the school yesterday came.’

However, the ambiguity in (29) presumably disappears if the relative clause is introduced by *man* or *maa* instead of *ʔalla ǿ*, which are special free relative complementizers (see, Alqurashi (2016). Consider the following example which is interpreted merely as having complex subject consisting of an NP conjoined with a free relative clause:

- (29) jaaʔa Ahmad-u wa-man zaara l-mdrast-a
 came.3.M.SG DEF-man-NOM COORD-that.M.SG visited.3.M.SG DEF-school-ACC
 ‘Ahmad and the one that visited the school came.’

Moreover, the ambiguity in (27) above can be avoided if we change the word order as follows:

- (30) Ahmad-u wa-lla ǿi zaara l-mdrast-a l-baarihah-a jaaʔa

- Ahmad-NOM PART-that.M.SG visited.3.M.SG DEF-school-ACC DEF-last night-ACC came.3.M.SG
 ‘The man, who visited the school, came.’
- (31) Aħmad-u wa-lla ĩi zaara l-mdrast-a jaaʔaa.
 Ahmad-NOM and-that.M.SG visited.3.M.SG DEF-school-ACC came.3.M.DUAL
 ‘The man and (the one) who visited the school came.’

The sentence in (30) is interpreted merely as one which contains a non-restrictive relative clause whereas the sentence in (31) is interpreted merely as having complex subject consisting of an NP conjoined with a free relative clause. This is due to the well-known subject-verb agreement mismatch in MSA. Subject-verb agreement in MSA is sensitive to word order. In SV word order, they agree in number, person and gender whereas in VS word order, they agree in person and gender only. Moreover, verbs agree only with the first conjunct of conjoined subjects in verb-initial clauses while in subject-initial clauses, they agree with both conjuncts. In (30) above, the verb *jaaʔa* agrees fully with the subject *Aħmad* and hence they share the same features (namely third person masculine singular). In (31), the verb *jaaʔaa* is assigned different number feature (namely dual) because it agrees with the conjoined subject which refers to two different people. Thus, *wa* in (31) but not in (30) must be seen only as a standard conjunctive element.

Furthermore, the use of *wa* in sentences like (4) and (5) above does not create any semantic ambiguity due to the presence of the resumptive clitic *and*, most importantly, the anaphoric clitic. They are interpreted only as ones containing a relative clause that has a non-restrictive interpretation only. Now, consider the examples in (32) and (33) in which the antecedent has to match the clitics, and hence it has to be singular in (32) and plural in (33).

- (32) šaraħa l-muṣalim-u **wa**-lla ĩi karamt-**hu** l-dwlat-u
 explained.3.M.SG DEF-teacher-NOM PART-that.M.SG honoured.3.M.SG-3.M.SG DEF-state-NOM
 drsa-**hu** biʔitqaan.
 lesson-3.M.SG perfectly
 ‘The teacher, whom the state honoured, explained his lesson perfectly.’
- (33) šaraħa l-muṣalim-u **wa**-lla ĩi karamt-hu l-dwlat-u
 explained.3.M.SG DEF-teacher-NOM and-that.M.SG honoured.3.M.SG-3.M.SG DEF-state-NOM
 drsa-**humaa** biʔitqaan.
 lesson-3.M.DUAL perfectly
 ‘The teacher and (the one) whom the state honoured explained their lesson perfectly.’

Only (33) suggests that *wa* must be treated as a conjunctive coordinator. The question that arises here is whether *wa* in examples like e.g. (27), (30) and (5) above can be seen as a different type of coordinators. A possible solution to this dilemma is to assume, following De Vries (2006), that *wa* is a coordinator in all examples above but with different functions. De Vries (2006:238) argues that there are three main types of coordination, namely ‘conjunction, disjunction and specification’ and provides the following examples to illustrate this:

- (34) a. Joop and Jaap (conjunction)
 b. Joop or Jaap (disjunction)
 c. the White House, or the house with the Oval Office (specification)

Equivalent examples are found in Arabic as shown below:

- (35) a. Ali-un wa Hind-un (conjunction)
 Ali-NOM and Hind-NOM
 ‘Ali and Hind’
- b. Ali-un ʔaw/ʔam Hind-un (disjunction)
 Ali-NOM or Hind-NOM
 ‘Ali or Hind’
- c. Paariis ʔaw l-madiinat-u ĩaat-u l-ʔaDwaaʔ (specification)

Paris-NOM or DEF-city-NOM with-NOM DEF-lights
 ‘Paris, or the city of lights’ lit. ‘the city with the lights’

A final note that should be mentioned here is that *wa* can appear without a coordinate structure as the example is (7) above shows. It can also be used as a subordinator to introduced explanatory and circumstantial clauses as (36) and (37), provided by Badawi *et al* (2004: 549,550).

(36) *wa-zuyyina l-nařš-u bi-zuħuur-i řala řakli raqm-i 7*
 AND-decorated.PASS DEF-bier-NOM with-flowers-GEN on shape number-GEN 7
wa-ħuwa *raqm-u l-qamiis-i lla ři kaana yartadii-ħi Matthews ...*
 PART-3.M.SG number-NOM DEF-shirt-GEN that.M.SG was wear-3.M.SG-it Matthews
 ‘and the bier was decorated in the shape of a number 7, **this being** the number of the shirt which Matthews used to wear...’

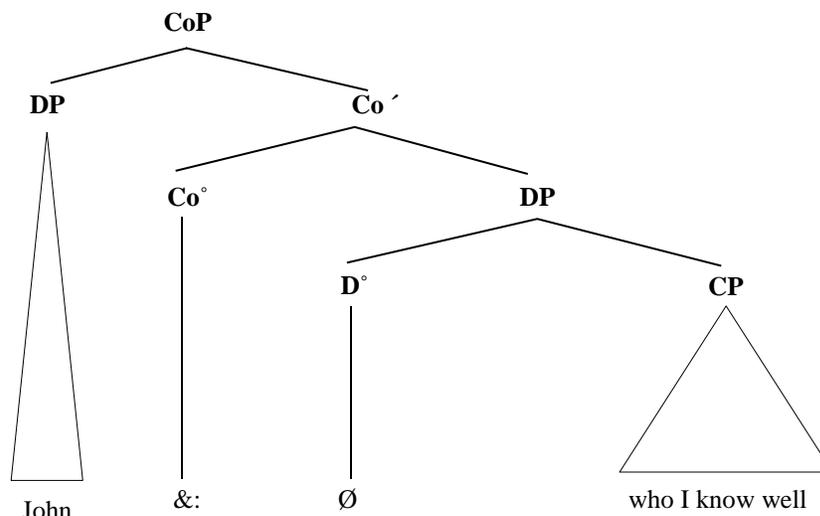
(37) *řaSbaħat řum-an wa-ħiya bnat-u l-řarbařat-a řařar-a rabiiř-an*
 became-3.F.SG mother-ACC PART-3.F.SG daughter-NOM DEF-four-ACC ten-ACC springACC
 ‘She became a mother **when** she was fourteen.’, lit. ‘and she the daughter of fourteen springs?’

5. Analysis

De Vries (2006) argues that English appositive relatives assimilate coordination structures. He hypothetically assumes a null specifying coordinator which coordinates the appositive relative clause to the antecedent. Thus, for the NRRCs in (35), he assumes the structure in (36) below. (Note 2)

(38) John who I know well

(39)



Furthermore, De Vries (2006) assumes that the appositive clause is not a CP but rather a DP, more specifically, it is a kind of free relative headed by a null D in apposition to the antecedent. He calls it a false free relative as he distinguishes between true and false free relatives based on examples from Dutch (see section 4.2 in the work cited above) which show that only false relatives can have a pronominal antecedent, but not true free relatives whose antecedent is implied in the relative pronoun. He also assumes raising within the relative clause (raising of an abstract NP within the second conjunct). In fact, the full structure he provides, schematized in (40) below, looks more complex than the one in (39) above.

(40) [_{CoP} [_{DP1} John] [_{Co'} &: [_{DP2} [_D [_{Nj}]] [_D]] [_{CP} [_{DP} [_{NP} ..._{tN}...] [_D [_D who_i] _{t_i}]] [_{C'} [_C Ø]] [_{TP} I know ..._i well]]]]]

However, De Vries’s (2006) analysis can be adopted here with some modifications to account for Arabic NRRCs that are introduced by *wa*, which should be treated as an overt specifying coordinator. Unlike De Vries (2006), I will not assume raising within Arabic NRRCs but I will rather assume movement of an empty relative operator. In addition, I will use De Vries’s classification of free relatives but in a different way. As noted in (28) above, Arabic free relatives look like RRCs in that they are introduced by the complementizer *řalla ři* but with a null antecedent.

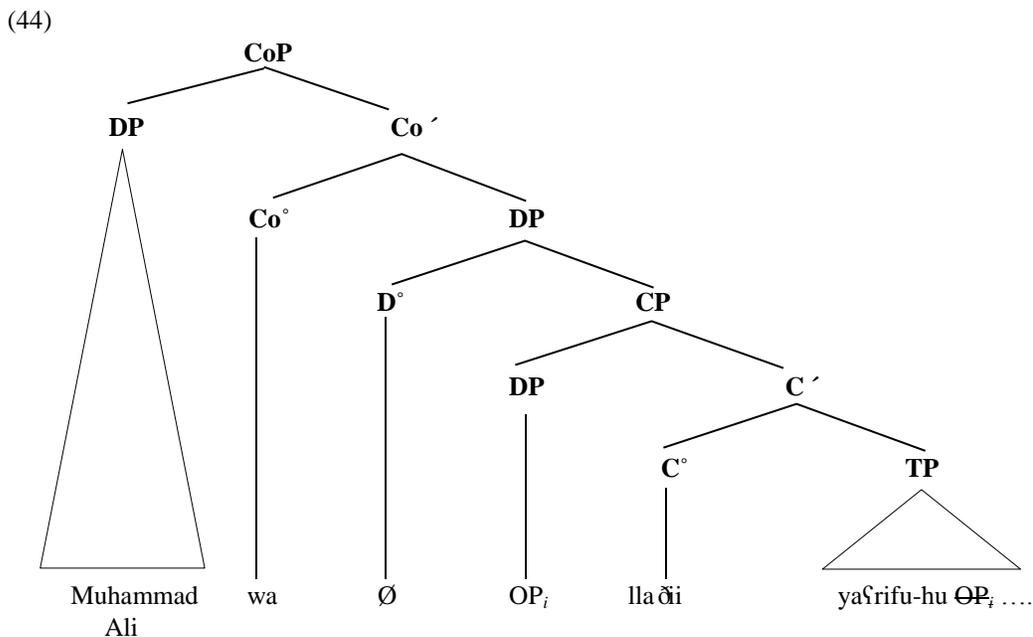
Both Arabic restrictive relatives and free relatives are analysed as having an empty operator-movement. However, if we consider both relative clauses in (30) and (31) as free relative clauses in apposition to the antecedent, we should then treat them differently as they have two different interpretations. Thus, the relative clause inside the second conjunct in (30) above should be called a false free relative since it refers to the same antecedent in first conjunct. On the other hand, the relative clause in (31) has a null antecedent that is different from (does not refer to) the element in first conjunct, thus it should be called a true free relative. It is the coordinator which determines the type of relative clause. Therefore, if *wa* is a specifying coordinator as in (30), then the following clause is a false free relative; and if it is a conjunctive coordinator as in e.g. (31), then the following clause is a true free relative. Thus assume that the NRRC is a false free relative clause.

As for NRRCs with resumptive clitics, there exists an evidence pointed out by Alqurashi & Borsely (2012) that resumptive clitics behave like gaps with respect to Coordinate Structures and Parasitic Gaps. In conformity with Ross's (1967) Coordinate Structure Constraint, movement cannot affect the first conjunct of the coordinate structure without affecting the other(s). This suggests they must be treated alike. Consider the coordinate structure in (41) whose first conjunct contains a gap whereas the second contains a resumptive clitic; and consider also the example in (42) in which a parasitic gap is licenced by a resumptive clitic:

- (41) l-fatatu llati ?uhibu ___ wa ?aħras ?alay-**ha**
 the-girl-NOM that- F.SG love.1.M.SG and care.1.M.SG about-3.F.SG
 'the girl that I love and care about'
- (42) l-kitaab-u lla ħi š-štaraa-**hu** Ali duuna ?an yaqra? ___
 DEF-book- NOM COMP.M.SG bought.3.M.SG- 3.M.SG Ali without that read. 3.M.SG
 'the book that Ali bought without reading'

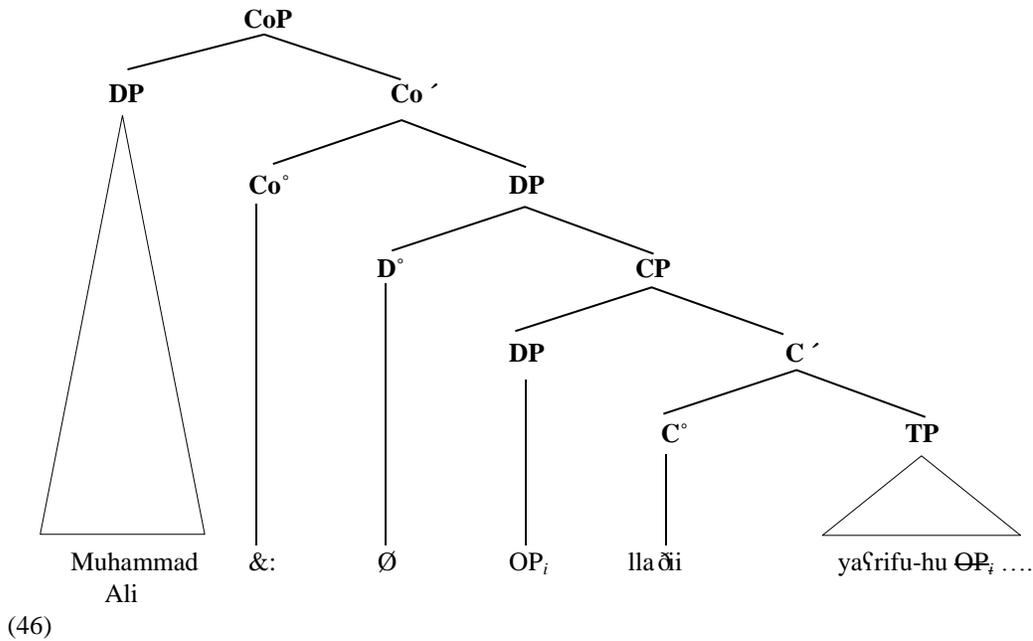
It can be said, then, that both NRRCs containing gaps and those containing resumptive clitics can be accounted for by an operator movement. Thus, the NRRC in (5b) above, repeated in (43) for convenience, is assumed to have the structure in (44) below.

- (43) Muħammad-u Ali-in **wa**-lla ħi yaħrifu-**hu** muħđ'am-u l-naas
 Muhammad-NOM Ali-GEN COORD-that.M.SG know.3.M.SG-3.M.SG most-NOM DEF-people
 'Muhammad Ali, whom most people know,'



As for NRRCs which are not introduced by an overt coordinator, like in (2) above, they are assumed to have a null specifying coordinator. Thus, the sentence in (2b) above will have the structure in (45) below.

- (45) Muḥammad-u Ali-in Ila ḏī yaṣrifu-hu muṣḏʿam-u l-naas
 Muhammad-NOM Ali-GEN that.M.SG know.3.M.SG-3.M.SG most-NOM DEF-people
 ‘Muhammad Ali, whom most people know,’



The final point that should be noted here is to account for NRRCs with non-nominal antecedents like a clause, a VP or an AdjP as shown in (13-15). These types of NRRCs can be accommodated within De-Vries’s (2006) coordinate approach if assume that the head of the free relative clause inside the second conjunct is the same as the antecedent in the first conjunct. Thus, we can have a structure similar to the one in (44) but with an XP instead of the DP in the two conjuncts, where X can stand for any syntactic category.

6. Conclusion

This paper has offered a description of NRRCs in MSA and attempted to provide a preliminary analysis of their structures within the transformational framework: Minimalist syntax. It has shown clearly that Arabic non-restrictive relative clauses can be generated via two relativization strategies: one is similar to that of definite restrictive relatives and the other involves the use the specifying coordinator *wa* to mark the non-restrictive interpretation. The paper has also argued that that the particle *wa* is best treated as a specifying coordinator and that De-Vries’s (2006) coordinate approach to appositive relatives can be adopted to provide a straightforward account for the structure of the second strategy. However, raising analysis is not assumed but rather operator movement is assumed within the relative clause. Finally, the facts related to NRRCS might provide some support to De-Vries’s (2006) assumption that NRRCs assimilate coordinate structures.

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Notes

Note 1. Morphemes in Arabic must start with a consonant when they occur in utterance-initial position (i.e. cannot start with a vowel) (see Watson 2007:66). Therefore, when *ʔalla ǿ* occurs in utterance-initial position, the definite article is realized as *ʔal*. On the other hand, when *ʔalla ǿ* occurs in non-initial utterance position as in (1) above, the definite article is realized as *l*.

Note 2. The semantic and phonological properties will not be of my primary concern here as the focus will be on the syntax of NRRCs.

Note 3. This example is well-known in the Arabic literature which is referred to as the story of Caliph Abu-bakr with the seller. Caliph Abu-bakr asked a seller: “Would you sell this?”. The seller replied: “no ALLAH keep you healthy”. Then, Abu-bakr corrected the seller and asked him to say “no, and may ALLAH keep you healthy”.

Note 4. The adjective *kabiirat-un* is supposed to agree with the modified noun *madiinat-un* in number, gender, case and definiteness and thus shows related agreement markers. However, in MSA, the case and indefiniteness markers do not appear on the word when it occurs in utterance-final position.

Note 5. Alqurashi (2016) also argues that *ʔalla ǿ* which introduces free relative clause in MSA is a complementizer.

Note 6. The complementizer *ʔalla ǿ* is not used to introduce complement clauses. They are introduced by either *ʔan* (for verb-initial clause) or *ʔanna* (for subject-initial clause) as the following illustrate:

- (i) a. ʔiqtarǰa T-Tabiib-u [ʔan yʔxu ǿ Zayd-un raaht-a-n li-mudati yawmayn].
 suggested.3.M.SG DEF-doctor-NOM that take.3.M.SG Zayd-NOM rest-ACC-IN DEF for-duration two-days
 ‘The doctor suggested that Zayd take rest for the duration of two days.’
- b. ʔaxbartu-k [ʔanna Zayd-an saafara]
 told.1.SG-2.M.SG that Zayd-ACC traveled.3.M.SG
 ‘I told you that Zayd had travelled.’

It should be noted here that Alotaibi and Borsley (2013) claim that preverbal subjects in Arabic are in fact topics and thus the clauses following *ʔanna* are really topic-initial and not necessarily subject-initial.

Note 7. De Vries (2006) also assumes that nominal appositions, exemplified in (i), have the same structure as coordination.

- (i) John, my boss, is a nice man.

Note 8. Citko (2008) argues against De Vries’s analysis, but this is not directly of our concern here as Arabic NRRCs are quite different from their equivalent in English.