Inherent case in Archaic Chinese

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Abstract. This paper proposes an analysis of subject case in Late Archaic Chinese (LAC). By examining the distribution of first person pronominal subjects, I conclude that there were two distinct morphological cases for subjects in LAC. One of these pronouns, 我 wǒ, valued structural nominative case, while the other one, 吾 wú, was marked with a different case. The occurrence of 吾 wú as the external argument of experiencer and modal predicates clearly suggests that this case was at least sometimes inherent case as signed to the external argument in [Spec, vP]. 吾 wú also functioned as the subject of relative clauses, embedded subjunctive clauses, and irrealis matrix clauses. Since the case valued in these clause types was not sensitive to predicate types, I propose that the source of the case valued by the subject in these environments was T. Working within Chomsky’s (2008) C-T Inheritance framework, I propose that Inheritance did not take place in indicative clauses, so the subject moved to [Spec, CP] to value nominative case. A first person pronoun with nominative case was spelled out as 我 wǒ. But Inheritance was forced if another constituent needed to occupy [Spec, CP]. I propose that relative clauses and irrealis/subjunctive clauses are all derived through operator movement. Because the operator must occupy [Spec, CP], C-T Inheritance must also take place, forcing the subject to move to [Spec, TP] to value its case. The case valued in this position was also the non-nominative form exemplified by the first person pronoun 吾 wú.

Keywords. C-T Inheritance; inherent case; nominalization; irrealis mood; subjunctive

1. Introduction. This paper proposes that Late Archaic Chinese (LAC; 5th to the 3rd centuries BCE) had both nominative and non-nominative subjects. This is a surprising discovery, given that modern Sinitic languages lack any morphological evidence of case distinctions. In this paper, I argue on the basis of the distribution of first person pronominal subjects that subjects in LAC valued a case other than nominative in a variety of contexts, including embedded nominalized clauses, experiencer constructions, as well as modal and other irrealis environments.

To begin, it is generally acknowledged that the LAC third person pronominal paradigm can be characterized to a certain extent in terms of case distinctions. Different pronominal forms were used to express subjects, objects, and possessors. Personal pronouns are found as objects and possessors. Since LAC was a null subject language, there is no overt personal pronoun for third person subjects. When focused, these subjects were expressed with demonstratives (Ma 1898, Zhou 1959, Wang 1980, Lü 1982, Hong 1991, Pulleyblank 1995).

(1) Demonstrative (subject)

之 zhī (object)

其 qí (possessor)

Examples are shown in (2) for object zhī, possessor qí, and demonstrative subject, respectively.

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(2) a. 學而時習之，不亦說乎？ (5th C. BCE; Analects, Xue’er)
    Xué ér shí [xí zhī], bù yì yuè hū?
    ‘To study and periodically practice something, is this not joyful?’

b. 其子焉往？ (4th C. BCE; Mencius, Lílóu 1)
    qí zǐ yān wǎng?
    ‘Where would their sons go?’

c. 是所使夫百吏官人為也。 (3rd C. BCE; Xúnzǐ 11)
    Shì [suǒ shí [tǐ bālì guānrén] [wēi e ] ] yě.
    DEM REL make DEM clerk official do COP
    ‘This is something which one makes those clerks and officials do.’

Case morphology was not visible in the writing system on full noun phrases except for genitive, which was marked by 之 zhī. This marker is homophonous with the 3rd person object pronoun, and these share the same diachronic origin, attested first as a demonstrative pronoun. This pronoun grammaticalized into a neutral (non-deictic) determiner (Djamouri 1999) and, as the head of DP, could function as either a pronoun in argument position or a genitive case marker for a DP in its specifier (Aldridge 2009).1

(3) 文王之囿 (4th C. BCE; Mencius, Liáng Huí 2)
    [Wén wáng zhī yòu]
    Wen king GEN park
    ‘King Wen’s park’

Case distinctions are less clear when it comes to first and second person pronouns. In the first person paradigm, three different forms are found in subject position, while two of these could also be used as objects or possessors (Ma, 1898, Wang 1980, Lü 1982, Pulleyblank 1995). The second person paradigm is similar, with two forms for subject and possessor, and only one form for objects.

(4) 1st prs: 我 wǒ (subject, object, possessor)
    余 (予) yú (subject, object)
    吾 wú (subject, possessor)

2nd prs: 爾 ěr, 女 rǔ (subject, object, possessor)
    而 ér (subject, possessor)

Graham (1969) characterizes the system in terms of dependent (possessor and embedded subject), as opposed to independent (matrix subject and object), forms. The term “dependent” refers to the fact that these forms are contained within larger constituents, i.e. possessed nominals or embedded clauses. To a certain extent, the dichotomy between embedded and non-embedded forms is an accurate characterization. (5a) and (5b) show first person wǒ used as a matrix clause subject and object, respectively.

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1 See also Wang (1980), Zhou (1959), and Yue (1998) for additional discussion of the etymology and historical development of zhī.
(5) a. 我將死。
Wǒ jiāng sǐ.
1.DFLT will die
‘I am going to die.’

b. 請殺我乎！
Qǐng shā wǒ hū!
please kill 1. DFLT EXCL
‘Please kill me!’

In contrast to this, wú was much more commonly employed as a possessor, as in (6a), and also frequently functioned as the subject of an embedded clause, as in (6b).

(6) a. 吾父之旗也。
[Wú fù] zhī qí yě.
1.GEN father GEN flag COP
‘(It) is my father’s standard.’

b. 何由知吾可也?
Hé yóu zhī [wú kě ] yě?
what by know 1.GEN can ASP
‘How do you know that I can?’

However, the “independent/dependent” dichotomy does not account for the full distribution of these pronouns. As (7a) shows, wǒ could function as a possessor, and wú is sometimes found in matrix subject position, as in (7b).

(7) a. 秋，師及齊師戰于乾時，我師敗績。
Qiū shī jí Qi shī zhàn yú Gānshí,
fall army with Qi army fight in Ganshi
wǒ shī bàijī.
1. DFLT army defeat
‘In the fall, the army battled with the Qi army in Ganshi and our forces were defeated.’

b. 諾。吾將復請。
Nuò wú jiāng fù qǐng.
yes 1.GEN will again ask
‘OK, I will ask again.’

In this paper, I argue in favor of a different distinction between wǒ (WO) and wú (WU). I maintain that WO and WU were clearly distinguished on the basis of case, at least in the early LAC period exemplified by the 5th century historical text Zuòzhùàn. While WO occurs in positions for structural nominative and accusative cases, WU was an inherently case-marked form. In this paper, I gloss it as “genitive”, as it occurs as a possessor within noun phrases and as the subject of embedded clauses which are plausibly analyzed as nominalizations, as I discuss in section 2.1. The occurrence of WU in main clauses is rather limited. WU can easily be analyzed as valuing inherent case when it functions as the subject of psychological and certain modal predicates, as these are common environments for inherently case-marked subjects cross linguistically, as shown in section 2.2. In section 3, I show that WU is also found as the subject of matrix irrealis clauses. I propose a uniform analysis of subject case in both embedded nominalizations and root
irrealis clauses in section 4. Put simply, I posit that subjects must value a case other than nominative in these clause types, because the position for nominative case is not available.

As mentioned above, WO also sometimes surfaces in positions where WU is expected. There are two conditions on the substitution of WO for WU. As WU could only be used with singular referents, WO was required when the referent was plural, as in (7a). WO was also used when this DP was stressed, as in a contrastive focus environment. Since WO is found in positions for nominative, accusative, as well as inherently case-marked DPs, I propose that it could value any case in the syntax and was spelled out post-syntactically as the default form of the first person pronoun. In contrast, WU surfaced only in positions where structural nominative and accusative were not available, so I analyze it as an inherently case-marked pronoun.

In this short work, I confine my examination to the two first person pronouns WO and WU. I do not consider the remaining first person pronoun yú, as its distribution was determined by sociolinguistic criteria, typically used by speakers addressing social inferiors, e.g. fathers to sons or teachers to students. I also do not examine second person pronouns in this paper, though my current understanding of their distribution leads me to believe that they exhibit the same basic pattern as their first person counterparts. Finally, it must be acknowledged that third person pronouns do not fully mirror the distribution of first person pronouns. Though first and third person pronouns behave identically when functioning as possessors and embedded subjects, as I show in section 2.1, non-nominative third person subjects are not found in matrix clauses. I assume that this is due to the pro-drop nature of LAC: third person pronominal subjects take overt form only when stressed, and when they are stressed, they are expressed as demonstratives, as mentioned above.

2. WU as a pronoun with inherent case. In this section, I present examples of WU occurring in environments where inherently case-marked nominals commonly occur cross linguistically. This discussion provides the foundation for my proposal that WU was an inherently case-marked form.

2.1. Possessor and Subject of a Nominalized Clause. As mentioned in the previous section, WU commonly occurs as a possessor.

(8) a. 吾父之旗也。 (5th C. BCE; Zuózuàn, Āi 13)
   [DP 吾父] 之旗 COP
   1.GEN father GEN flag COP
   ‘(It) is my father’s standard.’

b. 或以吾城叛。 (5th C. BCE; Zuózuàn, Zhāo 15)
   Huò 以吾城 COP
   someone APPL 1.GEN city surrender
   ‘Someone surrenders my city.’

As pointed out in the previous section, WO could also function as a possessor, but only when the referent was plural in number. I assume this to be a retention from Pre-Archaic Chinese (14th – 11th century BCE), where WO was principally employed as a plural form (Zhou 1959, Yang & He 1992, Zhang 2001), while another pronoun expressed first person singular. WU is not found in Pre-Archaic Chinese, first attested in Early Archaic Chinese (10th-6th centuries BCE). Though WO later came to refer to both singular and plural referents, WU was always singular, so I assume that WO had to be used when the referent was plural.
9. a. 秋，師及齊師戰于乾時，我師敗績。（5th C. BCE; Zuòzhuàn, Zhuāng 9）
Qiū shī jí Qī shī zhàn yú Gānshí, fall army with Qi army fight in Ganshi
wǒ shī bàijī. I. DFLT army defeat
‘In the fall, the army battled with the Qi army in Ganshi and our forces were defeated.’

b. 丁未，葬我君成。（5th C. BCE; Zuòzhuàn, Chéng 18）
Dīngwèi, zàng wǒ jūng Chéng Gōng. Dingwei bury I. DFLT lord Cheng Duke
‘On the day dingwei, (we) buried our lord Duke Cheng.’

WU also functioned as the subject of a nominalized embedded clause, such as a relative clause formed on object position. (10) shows an example with a full NP embedded subject, which is clearly marked genitive. The relativization marker suǒ appears between the subject and VP in the embedded clause.

10. 其北陵，文王之所避風雨也。（5th C. BCE; Zuòzhuàn, Xī 32）
Qí běi líng [Wén Wáng zhī suǒ [v bì fēng yǔ ____]] yě. 3. GEN north hill Wen king GEN REL escape wind rain COP
‘The north hill is [where the (Zhou) king Wen took shelter from the storm].’

(11) shows examples with first person subjects. The pronoun is WU and not WO.

11. a. 吾所問日食，從矣。（5th C. BCE; Zuòzhuàn, Zhào 7）
[Wú suǒ wèn rìshí], cóng yǐ. 1. GEN REL ask eclipse happen ASP
‘The eclipse I asked about has already taken place.’

b. 或以吾城叛，吾所甚惡也。（5th C. BCE; Zuòzhuàn, Zhào 15）
Huò yǐ wú chéng pàn, someone APPL 1. GEN city surrender
[wú suǒ shèn wù ] yě. 1. GEN REL greatly hate COP
‘Someone surrendering my city, (that) is something I detest.’

Temporal adverbial clauses were also nominalized in LAC. (12a) shows an example with a third person subject followed by the genitive case marker. (12b) shows an example with a first person subject, and this subject is WU.

12. a. 晉侯之入也，秦穆姬屬賈君焉。（5th C. BCE; Zuòzhuàn, Xī 15）
[Jìn hóu zhī rù yě], Qín Mù Jī shǔ Jiā Jūn yān. Jin marquis GEN return ASP Qin Mu Ji give Jia Jun 3.DAT
‘When the Marquis of Jin returned, Mu Ji of Qin gave Jia Jun to him.’

b. 昔吾畜於趙氏，孟姬之讒，吾能違兵。（5th C. BCE; Zuòzhuàn, Chéng 17）
[Xí wú xù yú Zhào shì, Mèng Jī zhī chán] past 1. GEN support by Zhao clan Meng Ji GEN slander
In the past, when I was being supported by the Zhao clan and suffered Meng Ji’s slander, I was able to avoid the soldiers (and escape).”

Complements of factive verbs and psychological predicates were nominalized as well. (13) shows examples with third person embedded subjects.

(13) a. 未知母之存否。

Wèi zhī [CP mǔ zhī cún fǒu].
‘(I) do not yet know whether my mother is alive or not.’

b. 懼君威之不立。

Jù [CP jūn wēi zhī bù lì ].
‘(I) fear that my lord’s reputation will not be firmly established.’

(14) shows corresponding first person examples with WU as the subject.

(14) a. 今吾聞至人之言，

Jīn wú wén zhì rén zhī yán,
‘Now that I have heard the words of a great man, I fear that I will lack his ability, will employ myself lightly, lose the nation.’

b. 何由知吾可也？

Hé yóu zhī [wú kě ] yě?
‘How do you know that I can?’

This subsection has presented examples in which WU clearly occupies the position for a genitive nominal: possessor within a noun phrase and subject of a nominalized clause. For the analysis, I assume that genitive case was assigned to possessors in the specifier of DP and also to the subject occupying the specifier of the embedded TP. I explore the analysis of embedded subject case further in section 4 and offer an explanation as to why these embedded clauses were nominalized – or more to the point, why they had to have genitive subjects. In the next subsection, I show examples of WU functioning as the subject of certain types of matrix clause that can also reasonably be expected to have non-nominative subjects.

2.2. WU AS THE SUBJECT OF PSYCHOLOGICAL AND MODAL PREDICATES. WU is also found as the subject of certain types of matrix clauses, for example those employing psychological or perception predicates.
(15) a. 吾見師之出而不見其入也。 (5th C. BCE; Zuǒzhùàn, Xì 32)

Wú jiàn shī zhī chū ér bù jiàn qí rù yě.
1.GEN see army GEN exit CONJ NEG see 3.GEN enter NMLZ
‘I see the army’s departure but will not see them return.’

b. 吾恐其為天下笑。 (4th C. BCE; Zhuāngzì, Xúwúguī)

Wú kǒng [qí wéi tiānxià xiào].
1.GEN fear 3.GEN PASS world laugh
‘I fear that he will be laughed at by the whole world.’

This is not surprising, given that it is common across languages for subjects of psych predicates to appear with non-nominative case, as in the Icelandic examples in (16).

Icelandic (Baker 2013:17-18)

her.DAT was.bored.by.3PL they.NOM
‘She was bored with them.’

b. Henni leiðist bókin sín.
her. DAT was.bored.by.3SG book self’s
‘She was bored with her own book.’

I assume with Woolford (2006) that experiencer subjects of psychological and perception predicates receive inherent case in their base positions [Spec, vP] and later move to surface subject position to check the EPP.

WU is also found as the subject of ability modals such as néng ‘can’.

(17) a. 吾能改矣。 (5th C. BCE; Zuǒzhùàn, Xuān 9)

Wú néng gǎi yǐ.
1.GEN can change ASP
‘I can change.’

b. 昔吾畜於趙氏，孟姬之讒，吾能違兵。 (5th C. BCE; Zuǒzhùàn, Chéng 17)

Xí wú xù yú Zhào shì, Mèng Jī zhī chán
past 1 support by Zhao clan Meng Ji GEN slander

wú néng wéi bīng.
1.GEN can avoid soldier
‘In the past, when I was being supported by the Zhao clan and suffered Meng Jí’s slander, I was able to avoid the soldiers (and escape).’

Again, this is not surprising from a crosslinguistic perspective. Some languages, for example Japanese, also employ non-nominative subjects in such contexts.

Japanese

(18) a. Taroo=ga Chuugokugo=o hanasite-ire.
Taro=NOM Chinese=ACC speak-be
‘Taro is speaking Chinese.’

b. Taroo=ni Chuugokugo=ga hasas-e-ru.
Taro=DAT Chinese=NOM speak-POT-PRES
‘Taro can speak Chinese.’
Koizumi (1995), Bobaljik and Wurmbrand (2007), Takahashi (2012) have proposed that subjects of the Japanese ability modal are selected by the verbal head hosting the modal, which in current Minimalism is \( v \). I further assume that this \( v \) is responsible for assigning inherent case to the subject. Consequently, the same analysis can be adopted for subjects of modal predicates as for subjects of psychological predicates: they receive inherent case in \([\text{Spec}, vP]\).

Incidentally, \( WO \) is also sometimes found as the subject of an ability modal, subject to the conditions I summarized in section 1. Since \( WU \) could only be singular, \( WO \) was required when the subject was plural, as in (19a). \( WO \) was also used in contrastive focus contexts such as (19b).

(19) a. 涉佗、成何曰：「我能盟之。」
   (5th C. BCE; Zuòzhuan, Ding 8)
   She Tió, Cheng He say: “Wǒ néng méng zhī.”
   ‘She Tió and Cheng He said: “We can form the alliance with them.”’

b. 我能死，爾能報。
   (5th C. BCE; Zuòzhuan, Zhāo 20)
   Wǒ néng sǐ, ěr néng bào.
   ‘I can die; you can take revenge.’

This section has shown a variety of syntactic environments in which \( WU \) can plausibly be analyzed as an inherently case-marked form. In the next section, I turn to some examples which are less obvious from a cross-linguistic standpoint. All of them show \( WU \) as the subject of a matrix clause in irrealis mood. However, I argue in section 4 that these, too, should be analyzed as non-nominative subjects.

3. Realis versus irrealis. In this section, I show that \( WU \) is found as the subject of irrealis clauses. First, \( WU \) occurs with the modal \( qí \), which He (2004) classifies as expressing future probability, necessity, or volition.

(20) a. 吾其廢乎？
   (5th C. BCE; Zuozhuan, Mín 2)
   Wú qí fèi hū?
   1.GEN MOD disinherit Q
   ‘Am I to be disinherited?’

b. 孰殺子產，吾其與之。
   (5th C. BCE; Zuòzhuan, Xiāng 30)
   Shú shā Zǐ Chǎn, wú qí yǔ zhī.
   3.GEN MOD help 1.GEN
   ‘Whoever kills Zichan, I will help him.’

\( WO \) is generally not found with the modal \( qí \). However, before concluding that \( WU \) is assigned inherent case by the \( v \) hosting this modal, I consider some environments in which both \( WU \) and singular, unstressed \( WO \) can occur and show that the difference in the subject form correlates with a difference in mood: \( WU \) is the subject of irrealis clauses, while \( WO \) is the subject of realis clauses. In the following two examples, \( WO \) and \( WU \) occur, respectively, as the subject preceding the future marker \( jiāng \). In (21a), where \( WO \) is the subject, the event being expressed took place prior to utterance time and consequently had already been realized by that time. (21b), with \( WU \) as the subject, expresses a future event, posterior to utterance time and consequently has not been realized. The example with \( WU \) as the subject, then, can be said to be an example of irrealis mood.
(21)  a. 我将亡，夫子存我，德莫大焉。  (5th C. BCE; Zuòzhuan, Xiāng 27)
   Wǒ jiāng wáng, fūzǐ cún wǒ, dé mò dà yān.
   1.DFLT will die master save 1 virtur none large 3.DAT
   ‘When I was about to die, the master saved me; there is no greater virtue than that.’

b. 諾。吾將復請。  (5th C. BCE; Zuòzhuan, Xī 10)
   Nuò wú jiāng fù qǐng.
   yes 1.GEN will again ask
   ‘OK, I will ask again.’

WU is also frequently found in the consequent clause in a conditional sentence. Since these sentences express hypothetical situations, they are also examples of irrealis mood.

(22)  a. 苟舍我，吾請納君。  (5th C. BCE; Zuòzhuan, Zhuāng 14)
   Gǒu shè wǒ, wú qǐng nà jūn.
   if release 1.DFLT 1.GEN ask restore lord
   ‘If you release me, I will ask to have you, my lord, restored.’

b. 苟能納我，吾使爾為卿。  (5th C. BCE; Zuòzhuan, Xī 30)
   Gǒu néng nà wǒ, wú shǐ ěr wéi qīng.
   if can restore 1.DFLT 1.GEN make 2.DFLT be minister
   ‘If you can restore me, I will make you a minister.’

WO can be found as the subject of the same verbs but in realis mood. Both of the following examples express present or past events. The second clause in (23b) makes it particularly clear that the event expressed by the first clause has been realized.

(23)  a. 「我請誘之。」子庚從之。  (5th C. BCE; Zuòzhuan, Xiāng 13)
   “Wǒ qǐng yòu zhī.” Zīgēng cóng zhī.
   1.DFLT ask entice 3.OBJ Zīgēng follow 3.OBJ
   ‘I request that we entice them (leading them into a trap).’ Zīgēng followed this (suggestion).

b. 今我使二國暴骨，暴矣。  (5th C. BCE; Zuòzhuan, Xuān 12)
   Jīn wǒ shǐ èr guó pù gǔ, pù yǐ.
   now 1.DFLT make 2 nation bleach bone bleach ASP
   ‘Now, I have made both nations bleach their bones (on the field of battle), and indeed (their bones) have been bleached.’

A further indication that WU appears as the subject of irrealis clauses is that it frequently occurs in wh-questions and negated clauses, typical irrealis environments.

(24)  a. 且人有君而弒之，吾焉得死之？  (5th C. BCE; Zuòzhuan, Xiāng 25)
   Qiě rén yǒu jūn ér shì zhī, wú yān dé sǐ zhī?
   ADV person have lord CONJ assassinate 3.ACC 1.GEN how can die 3.ACC
   ‘If a man has a lord and assassinates him, how can I die for him?’
In this section, I showed that WU functions as the subject of irrealis clauses, regardless of the specific predicate. Consequently, it cannot be analyzed as receiving inherent case in the specifier of the \(v\)P projected by the predicate. In the next section, I propose an analysis of subjects in irrealis clauses that is parallel to that for subjects in nominalized clauses. Specifically, I propose that both clause types are operator movement contexts, and operator movement prevents the subject from moving to the nominative case position, because this position also functions as the landing site for the operator. Consequently, subjects in these clause types must occupy a lower position and receive non-nominalive case.

4. Analysis. To summarize the discussion so far, the first person pronoun WU is found as a possessor, the subject of a psychological predicate, the subject of an ability modal, the subject of an embedded nominalized clause, and the subject of a matrix irrealis clause. As mentioned in section 2, I assume that possessors receive genitive case in the specifier of DP, and the subjects of psychological predicates and ability modals receive inherent case in the specifier of \(v\) hosting these predicates. It is also not surprising that the subjects of nominalized clauses receive non-nominalive (particularly genitive) case. But there is a larger question which I have not yet addressed, and that is the reason why certain types of embedded clauses in LAC had to be nominalized in the first place. In this section, I address this question by proposing an analysis of subject case in nominalized clauses which also accounts for the appearance of non-nominalive subjects in irrealis clauses. Specifically, I propose that subjects in both clause types are prevented from moving to the position where nominative case is valued, because this position was required by an operator.

This analysis is grounded in Chomsky’s (2008) C-T Inheritance model, which proposes that the features responsible for licensing nominative arguments are not inherent to T but rather enter the derivation on C and are then “inherited” by T from C. In particular, C passes \([u\phi]\) to T, which undergoes Agree with the subject, valuing nominative case and copying the subject’s \(\phi\)-features to be spelled out as agreement. The subject is also attracted to the specifier of TP. If C has a feature driving A’-movement like a \([uWH]\) feature, this feature is retained by C, allowing movement to [Spec, CP] over the subject in [Spec, TP], as in case of object wh-movement.

\[(25)\]
\[
b. \text{What did you buy?}
\]
\[
\text{[CP \text{what did} [TP \text{you} [vP t_{what} [v\text{-}t_{you} [v\text{-}v [buy t_{what} ]]]]]]}
\]

Chomsky (2008) assumes that C-T inheritance takes place universally, but there is a growing body of literature arguing that this cannot be true for all clause types in all languages (Ouali 2006; Gallego 2014; Legate 2014; Martinović 2015; van Urk 2015; Erlewine 2016; Aldridge 2017). In Aldridge (2017), I argue specifically that C-T Inheritance did not generally take place in LAC and that subjects moved to [Spec, CP] rather than [Spec, TP] in order to value nominative case.

\[(26)\]
\[
b. \text{And the Earl of Zheng also disliked him.} \quad (5^\text{th} \text{C. BCE; \text{Zuòzhuan, Xī 31}})
\]

Zheng bo _yi__wu zhi.
Zheng earl also dislike 3.OBJ
‘And the Earl of Zheng also disliked him.’
Evidence for this proposal comes from object movement contexts. Unlike English *wh*-movement, objects in LAC could never be dislocated over a nominative subject. Object topicalization provides evidence for this. Interestingly, this is another environment where WU is found as the subject of a root clause. In (27a), a topicalized object appears in clause-initial position, which I assume is [Spec, CP]. The first person singular subject takes the form of WU and not WO. This is expected on my (2017) analysis, since the nominative case position [Spec, CP] is occupied by the object, so the subject is forced to surface in a lower position and value non-nominative case.

(27) a. 諸侯之禮，吾未之學也。 (Mencius, Téngwén 2)

[Zhūhóu zhī lí] wú wèi zhī xué yě.

‘The rites of the feudal lords, I have not yet studied.’

At this point, it is necessary to clarify my assumptions about the specific nature of the case valued by the subject in examples like (27a). There is no reason a priori to assume that genitive case is assigned to the subject located in [Spec, TP] in a finite indicative root clause. I propose rather than the case valued by the subject in examples like (27a) is in fact nominative, but nominative case has different morphological reflexes, depending on where it is valued. In other words, movement of the object to [Spec, CP] forced C-T Inheritance to take place in LAC, with the result that the case feature for the subject was also passed to T. When nominative case was valued by T, it was realized as the case that I gloss as “genitive”. Interestingly, it is not uncommon cross linguistically for subjects appearing in different positions to be marked with different morphological cases. König (2008) shows that many African languages allow subjects to surface in either pre- or post-verbal position, but when the subject is post-verbal, it must be overtly marked for case, while it is unmarked when it surfaces in pre-verbal position. This, too, can be accounted for on my analysis by assuming that nominative has a different morphological reflex when it is valued in different positions.
Chai (König 2008:248)

(28) a. **bume** haŋae  ngaŋogine.
    Bume chase.PRV.3PL.3SG.OBJ Ngakogine.ACC
    ‘The Bume chased Ngakogine.’

b. ** ngaŋogine** haŋae **bume-o**.
    Ngakogine.ACC chase.PRV.3PL.3SG.OBJ Bume-NOM
    ‘The Bume chased Ngakogine.’

The Aldridge (2017) analysis also accounts for the embedded clause types discussed in section 2.1. Recall first that object relative clauses in LAC had genitive subjects. I (2017) proposed that the subject could not be nominative, because nominative subjects had to occupy [Spec, CP]. But in a relative clause, this position is needed as the landing site for the operator moving to form the relative clause. In object relative clauses, then, C-T Inheritance is forced, in order to provide a position, i.e. [Spec, TP], for the subject. And as proposed above, the case valued by the subject in this position is spelled out as genitive.

(29) 吾所問日食 (5th C. BCE; Zuózhuàn, Zhào 7)
[CP OP [TP Wú suǒ wèn <OP>]] ríshí
  1.GEN REL ask eclipse
  ‘the eclipse I asked about’

Turning to adjunct clauses like temporal adverbials, Larson (1987), Dubinsky & Williams (1995), Demirdache & Uribe-Etxebarria (2004), Haegeman (2007, 2010a) have argued that temporal adverbial clauses also involve operator movement to [Spec, CP] in the embedded clause. According to Haegeman (2010a), this accounts for the inability of other constituents, like topics, to undergo fronting in this type of embedded clause, because the landing site is occupied by the operator.

(30) a. John left [CP when [Sheila left the office]].

b. * John left [CP when [the office] [TP Sheila left <the office>]].

So it is not surprising that temporal adverbial clauses have genitive subjects in LAC. In order to allow the operator to move to [Spec, CP], the subject must be in [Spec, TP].

(31) 昔吾畜於趙氏, 孟姬之讒, 吾能違兵。  (5th C. BCE; Zuózhuàn, Chéng 17)
[CP OP [TP Xí wú xù yú Zhào shì, Mèng Jì zhī chán]]
  past 1.GEN support by Zhao clan Meng Ji GEN slander
  wú néng wéi bīng.
  I can avoid soldier
  ‘In the past, when I was being support by the Zhao clan and suffered Meng Ji’s slander,
  I was able to avoid the soldiers (and escape).’

Finally, this analysis accounts for why complements of certain matrix predicates, including psychological predicates and factive verbs, must be nominalized. Cross linguistically, these are all non-assertive, subjunctive contexts.² Kempchinsky (1986, 2009) proposes that subjunctive complements of desiderative and directive verbs are characterized as having an imperative operator in the left periphery of the embedded clause. Haegeman and Ürögdi (2010) propose an operator

² See Quer (2009) for a general discussion of subjunctives in Romance languages.
analysis of factive clauses in order to represent the definiteness of the presupposition expressed by these clauses. Bhatt and Pancheva (2006) and Haegeman (2010b) propose an operator movement analysis of another type of subjunctive environment: conditional clauses. They take the operator to range over a set of world variables. According to Haegeman, it is launched from the specifier of an irrealis mood phrase.

I build on these proposals by suggesting that operator movement takes place generally in non-assertive clauses in LAC. Following Bhatt and Pancheva (2006) and Haegeman (2010b), I propose that the operator ranges over a set of world variables. According to Haegeman, it is launched from the specifier of an irrealis mood phrase.

I note in passing that assertive/indicative embedded clauses in LAC had nominative subjects. Note the lack of genitive marking on the embedded subjects in (33). This is expected, since assertive clauses do not involve movement of a world operator.

At this point, there is an answer to the question of why subjects in certain embedded clause types were genitive rather than nominative: this was the consequence of C-T Inheritance in order to make [Spec, CP] available for the operator in non-assertive clause types.

Turning to matrix irrealis clauses, I propose the same analysis as for their embedded counterparts. Irrealis clauses are also non-assertive clause types. Accordingly, it is reasonable to assume that their derivation also involves movement of a world operator movement to [Spec, CP]. The subject then receives its case in [Spec, TP], which is spelled out as genitive.

The reader may wonder about conditional clauses in LAC. I leave out examples in order to save space, but these do indeed follow the anticipated pattern. Realis conditional clauses were full finite CPs employing a complementizer and had nominative subjects. In contrast, irrealis conditionals contained no complementizer and had genitive subjects. This dichotomy clearly shows the correlation between mood and subject case licensing.
5. Conclusion. In this paper, I proposed that Late Archaic Chinese had two morphological cases for subjects, and these cases were valued in different structural positions. The language did not employ C-T Inheritance in indicative clauses, and nominative case was valued in [Spec, CP]. The language also had inherent case-marking for subjects of certain stative predicates like psychological verbs and ability modals. This case was assigned to external arguments in [Spec, vP]. This “inherent” case form also appeared on nominative subjects if another constituent needed to occupy [Spec, CP]. The need for a second position in the left periphery forced C-T Inheritance to take place, and the subject then moved to [Spec, TP], where the case it valued was spelled out as the non-nominative form. In short, this paper proposed that the two subject cases in LAC are distinguished on the basis of whether the subject receives its case in [Spec, CP] (default nominative case) or another, structurally lower, position (non-default/genitive case).

References


