

Ergativity and Transitivity

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Abstract

Ergative case is said to mark transitive subjects, and it is widely assumed that this is true under the ordinary notion of transitivity, where all and only clauses with a direct object in syntax are transitive. However, Bittner and Hale 1996 propose that languages with ergative case fall into two types, neither of which is based on this ordinary notion of transitivity. In one type, often called active ergative, a direct object in syntax is not necessary for ergative case to be used: any verb with an external argument count as transitive under the definition in Hale and Keyser 1993 (Warlpiri). In the second type, a direct object in syntax is necessary but not sufficient: the subject gets ergative case only when the object moves out of the VP (Inuit). This paper provides additional support for the existence of this second type based on data from Niuean, Dyirbal and Nez Perce, and proposes a formal account of this correlation between object shift and ergative case which builds on the observation in Chomsky 1995 that object shift should create a violation of the Minimal Link Condition. Under this proposal, ergative case can be used as a 'last resort' to prevent a MLC violation. No clear counterexample to Bittner and Hale's hypothesis was found in the research for this paper among languages with overt ergative case, although there remain many languages for which published data is not yet sufficient to conclusively determine whether or not they conform to Bittner and Hale's two types. The only languages that clearly conform to the stereotype that ergativity is governed by ordinary transitivity are ones where only the agreement pattern is ergative, e.g the Mayan languages. Covert ergative case is commonly postulated for these languages, but this is called into question if no language with overt ergative case actually manifests this stereotypic pattern.

1. Introduction

Transitivity is central to the definition of an ergative pattern in typology (e.g. Comrie 1978, Dixon 1979): transitive subjects are marked in a way that is distinct from intransitive subjects and transitive objects. It is often assumed that the word ‘transitive’ in the typological definition of an ergative pattern has its ordinary/dictionary meaning wherein a clause is transitive if and only if there is a direct object present in syntax. However, Bittner and Hale 1996 argue that languages with ergative case fall into two quite distinct types, neither of which conforms to this stereotypic pattern.

In Bittner and Hale’s first type, illustrated with Warlpiri, ergative case marks the subjects of all verbs that are transitive under the definition in Hale and Keyser 1993, where all verbs with an external argument are transitive in that they always have at least a semantically incorporated object:

- (1) Ngarrka-ngku ka yunpa-rni. [Warlpiri]
man-ERG PRES sing-NONPAST
‘The man is singing.’ (Levin 1983:149)

The presence of a direct object in syntax is not required in order for ergative case to mark the subject in this first type of ergative language, a type known in the literature and often called active or active ergative.

In contrast, Bittner and Hale’s second type is new and surprising. In this second type, illustrated with Inuit, the presence of a direct object in syntax is necessary, but *not sufficient* for ergative case to be used. *The direct object must move out of the VP before ergative case can mark the subject.* In Inuit, specific objects move out of the VP (Bittner 1994), undergoing object shift just as in Icelandic (Diesing 1992), and ergative subjects occur only in clauses where object shift has occurred. In contrast, non-specific objects remains in situ in the VP, and such clauses take a nominative subject. We see this contrast below between (2) with a specific object and an ergative subject, versus (3) with a non specific object and a nominative subject:

- (2) Juuna-p miiqqa-t paar(i-v)-a-i. [Inuit]
Juuna-ERG child-PL(NOM) look.after-IND-[+tr]-3SG.3PL
‘Juuna is looking after the children.’ (Bittner and Hale 1996 (22b))
- (3) Juuna atuakka-nik marlun-nik pi-si-v-u-q [Inuit]
Juuna(NOM) book-PL.INS two-PL.INS paid.for-get-IND-[-TR]-3RDSG
‘Juuna bought two books.’ (Bittner 1994:72)

Evidence that the object moves out of the VP in Inuit clauses with an ergative subject involves scope; the object is necessarily outside the scope of negation in the ergative construction, indicating that it is higher than the negative (Bittner 1994:35).

- (4) Junna-p atuagaq ataasiq tigu-sima-nngi-la-a. [Inuit]
 Junaa-ERG book one get-PERF-NEG-IND-3SG.SG
 ‘There is one book which Juuna hasn’t got (yet)’ (Bittner 1994:35 (71a))

“The corresponding oblique object can only take narrow scope, indicating that it remains below negation, inside the VP (Bittner 1994:35 (71b)).”¹

- (5) Juuna ataukka-mik ataasi-mik tigu-si-sima-nngi-la-q [Inuit]
 Junna book-INSTR one-INSTR get-AP-PERF-NEG-IND-3SG

Bittner and Hale’s proposal does not include a third type, corresponding to what many linguists assume is the stereotypic ergative language, where any clause with a direct object takes an ergative subject, regardless of whether that object is inside or outside the VP. If Bittner and Hale’s two types of languages with ergative case are all that exist, then every ergative language that has been assumed to follow that stereotypic pattern must actually be either an active ergative language, like Warlpiri, or what I will call an object shift ergative language, like Inuit. Investigating this hypothesis is the topic of this paper:

- (6) Two Types of Languages with Ergative Case, following Bittner and Hale 1996²:
 Active Ergative: Ergative case marks external arguments.³
 Object Shift Ergative: Ergative case marks external arguments only in clauses where the direct object has moved out of the VP.

Now, despite Bittner’s evidence that specific objects undergo object shift in Inuit, readers could still doubt that anything more than ordinary transitivity is required for the subject to be marked ergative in Inuit, given that nonspecific objects in Inuit get a case that Bittner labels as instrumental. Under a narrow definition of transitive, where only clauses with a direct object with structural case count as transitive, the Inuit examples

¹ Bittner (1994:35 provides a word by word gloss for the example in (5), but does not give an English translation.

² Bittner and Hale 1996 call the first type ‘transparent’ and the second type ‘opaque’, terms which stem from their particular account of the difference between these two types (summarized in section 9 below). They also refer to the first type as morphologically ergative and the second type as syntactically ergative. While this is accurate in the sense that the second type requires a particular syntax (object shift), it remains to be determined if the languages they label as syntactically ergative are actually the same set as those labeled syntactically ergative in the typological literature (languages having grammatical processes which single out transitive subjects). Here I use more neutral descriptive terms for these types.

³ For those working in other frameworks, the term external argument is equivalent to what has been called a deep or initial subject (e.g. Lexical Functional Grammar) or an initial 1 (e.g. Relational Grammar). In all of these frameworks, the verbs of a language fall into two classes, one which takes an external argument/initial subject/initial 1, and the other which does not. Although the first class is generally more active/agentive, the membership in these two classes differs somewhat cross-linguistically. In the Minimalist Program, external arguments are generated and theta-marked in the specifier position of the highest little v node (Kratzer 1996, Chomsky 1995). Ergative case is the inherent case associated with the theta marking of the external argument (Massam 1994, 1998, Woolford 2006 and other references cited therein).

with a nominative subject and an object marked with instrumental case would be classified as intransitive. The first goal of this paper is to provide additional evidence that there are other ergative languages where ergative case is limited to clauses where object shift (movement of the object out of the VP) has occurred.

Strong evidence for the existence of the object-shift type of ergative language comes from Niuean (section 2). Niuean is like Inuit in that ergative case marks the subject only when the object moves out of the VP (Massam 2000). Massam shows base on evidence from the word order in Niuean that specific objects move out of the VP, while nonspecific objects remain inside the VP, just as in Inuit. Unlike Inuit, however, nonspecific objects are not marked with an oblique case in Niuean; instead, clauses with a non-specific direct object look much like transitive clauses in English and would likely be analyzed as ordinary nominative-accusative constructions, except for the fact that the language also has clauses with an ergative subject. Seiter (1980), working under the assumption that all ergative languages must fit the stereotypic ergative pattern where all and only transitive clauses have an ergative subject, forces Niuean into that mold by claiming that the non-specific object are actually incorporated. However, Massam (2000, 2006) shows, based on the length and complexity of many non-specific objects, that the incorporation account cannot be correct for Niuean.⁴ In contrast, under Bittner and Hale's 1996 proposal, the Niuean pattern fits the object-shift type of ergative pattern perfectly; the subject is ergative only when the object moves out of the VP, and there is no need to claim that apparently transitive clauses with a non-specific object are really intransitive.

Other languages where ergative case marks the subject only when the object moves out of the VP include the related language Tagalog (Aldridge 2012) (section 3), and Dyrbal under Dixon's 1972 analysis where the OSV word order is produced by moving the object out of the VP (section 4). However, like Inuit, these languages could also fit the stereotypic ergative pattern because clauses with a nominative subject have objects marked with what looks like an oblique case. In contrast, Nez Perce is like Niuean where object shift has been argued to occur in clauses with an ergative subject, while clauses without object shift have a nominative-accusative case pattern (Woolford 1997, Carnie and Cash 2006). Nez Perce has ditransitive examples with a nominative-accusative-accusative pattern that really cannot be analyzed as intransitive to make it fit the stereotypic ergative pattern. Instead, Nez Perce conforms only to Bittner and Hale's object shift type of ergative language (section 5).

The second goal of this paper is to argue that many other ergative languages that may have been assumed to fit the stereotypic pattern actually belong to the active

⁴ A reviewer points out that there is still a way under the account in Massam 2001 to analyze Niuean as consistent with the stereotypic ergative pattern. Massam hypothesizes that non-specific objects get no case at all in Niuean; if so, such clauses would qualify as intransitive if transitive is narrowly defined as involving an object with structural case.

ergative type. Examples of active ergative languages discussed in this paper include several Caucasian languages, Georgian, Batsbi, Inguish, and Udi, plus Basque and Kashmiri (section 6).

The third goal of this paper is to begin the process of answering the following question raised by Bittner and Hale's 1996 proposal: do we have positive evidence that there are languages with ergative case that do not fit into either the active ergative or object shift ergative type? That is, is there clear evidence that a distinct third type, the stereotypic ergative language, must (also) exist, where ergative case marks the subject whenever there is a direct object in syntax, *even if that object remains inside the VP*? Or is Bittner and Hale's 1996 claim correct, that all languages with ergative case belong to one of the two types in (6)? In the research for this paper, no clear counterexample to Bittner and Hale's claim has yet been found, although there remain a number of languages with ergative case whose type cannot yet be determined. Some of these unclassified languages are discussed in section 7: Archi, Kabardian, Tsez, and Kalkatungu. These languages clearly do not belong to the active type, because they require the presence of a syntactic object in order for the subject to be ergative. What remains to be determined is whether the object in clauses with an ergative subject is always outside the VP in these languages. That not immediately obvious in SOV languages nor in languages with very free word order.

Languages where only the surface agreement pattern is ergative are discussed in section 8, because these languages are commonly assumed to have covert ergative case. In languages of the Selayarese family, the agreement pattern is ergative only when the direct object is definite; transitive clauses with an indefinite direct object have nominative subjects. Thus if these languages have covert ergative case, they may belong to the object shift type. In contrast, if the Mayan languages have covert ergative case, they are clear counterexamples to Bittner and Hale's hypothesis. Agreement in the Mayan languages follows an almost perfect stereotypic ergative pattern. The Mayan languages are not of the active ergative type because a direct object in syntax is required before the ergative agreement pattern can be used. Moreover, we can exclude the possibility that the Mayan languages are of the object shift type because evidence from VSO/VOS word order alternations in some of the Mayan languages shows that only definite objects undergo object shift, and yet the agreement pattern remains ergative even in clauses with an indefinite direct object. However, unless we can find clear evidence that there are languages with overt ergative case that support the existence of this stereotypic type of ergative language, we may be in the ironic situation of positing covert ergative case in languages with an ergative agreement pattern based on a pattern that does not occur among languages with overt ergative case. A possible alternative way to derive the Mayan ergative agreement pattern is presented at the end of section 8.

The final goal of this paper is to answer the theoretical question of why object shift should correlate with the use of ergative case. Two possible formal approaches to answer this question are presented in section 9. Both are case locality approaches,

formalizing the idea that moving the object out of the VP leads to a change in the conditions for subject case licensing. Bittner and Hale 1996 propose that in languages of the object-shift type such as Inuit, VP is a barrier so that objects that remain in the VP are not case competitors with respect to the subject, and thus ergative case cannot be licensed. However, that hypothesis is not compatible with theoretical approaches where case licensing involves only a relationship between a licensing head and a DP. I present an alternate account here which builds on the fact noted in Chomsky 1995 that object shift brings the object into a position where it should interfere with nominative licensing on the subject, creating a violation of the Minimal Link Condition, unless the verb raises. I show that using ergative case (as a ‘last resort’) is a way to avoid the MLC violation that object shift would otherwise cause. Another ‘last resort’ strategy to avoid a MLC violation in object shift constructions, which is used in Hawaiian, is to encase the shifted object inside a PP by inserting a preposition. The latter strategy may also be used in some nominative-accusative languages with object shift.

Under this account, the assumptions of the Minimalist Program (Chomsky 1995, 2000) essentially predict that the object shift type of ergative language should occur, in that this account uses only cross-linguistically motivated cases, licensed in the standard manner, with case locality effects following from the Minimal Link Condition. In contrast, I have not yet seen a formal account of the stereotypic ergative pattern that does not require additional cases (e.g. absolutive) and/or non-standard case licensing heads or mechanisms.

2. Niuean

Niuean fits the object shift type of ergative language perfectly. The subject gets ergative case only when the object moves out of the VP. Moreover, unlike Inuit; it requires some special stipulation to make Niuean fit the stereotypic ergative pattern, given that there are apparently transitive clauses with a nominative subject, where the object remains in situ and is not marked with oblique case.

2.1 Morphological Case in Niuean

Before we examine the relevant Niuean examples, we need to note that the case morphemes in Niuean have a different morphological form for proper and common nouns:

(7)	Niuean Case Morphemes (from Massam 2006:28)	
	Proper Nouns/Pronouns	Common Nouns
	Ergative	<i>e</i>
	Absolutive	<i>he</i>
		<i>e</i>

Although Massam 2006 uses the label *absolutive* to gloss the nominative/accusative cases in her Niuean examples, a focus of her article is to determine whether the cases

Massam argues that the non-specific object remains in its base position inside the VP. The VOS order is produced when the VP containing that object fronts.

- (12) a. Base order: S [VP V O] [non specific object]
 b. Order after VP fronting: [VP V O] S

In contrast, the specific object moves out of the VP before the VP fronts, producing the VSO word order:

- (13) a. Base order: S [VP V O] [specific object]
 b. Order after object shift: S O [VP V t]
 c. Order after VP fronting [VP V t] S O

Thus Niuean is like Inuit and Icelandic (Diesing 1992) in that specific objects undergo object shift (movement out of the VP to a position below Spec IP). The additional factor affecting word order in Niuean is that the VP fronts in both types of clauses, as has been argued for other verb initial languages such as Malagasy (Pearson 1997). Because of this, we can detect the occurrence of object shift by the change in the surface word order, unlike the situation in Inuit, and thus we can more easily see the correlation between object shift and ergative case in Niuean than in Inuit:

- (14) Niuean Word Order:
 non-specific object [VP V O] S-nom
 specific object [VP V] S-erg O

- (15) Inuit Word Order:
 non-specific object S-nom [VP O V]
 specific object S-erg O [VP V]

It is thus clear that Niuean fits the object shift type of ergative language proposed by Bittner and Hale 1996 where ergative case marks the subject only in clauses where the object moves out of the VP.

2.3 Seiter (1980) and the Stereotypic Ergative Pattern

Since non-specific objects are not marked with an oblique case in Niuean, clauses with a nominative subject and a non-specific object in Niuean are/appear to be transitive, just as clauses with an ergative subject are. We see this in the following minimal pair from Seiter 1980, in which I have bracketed the VP following Massam's 2000 analysis for clarity:

- (16) Neafi, ne [tō huli talo] a au he māla.
 yesterday past [plant shoot taro] abs I at plantation
 'Yesterday, I planted taro shoots at the plantation.' (Seiter 1980 (184b))

- (17) Neafi, ne [tō] e au e tau huli talo he māla.
 yesterday past [plant] erg I abs pl shoot taro at plantation
 ‘Yesterday, I planted taro shoots at the plantation.’ (Seiter 1980 (183b))

Seiter (1980) assumes that all ergative languages must fit the stereotypic ergative pattern where only clauses with an ergative subject are transitive, and thus he reasons that in the example in (16) with a nominative subject “is syntactically intransitive at some levels of structure, as shown by the fact that its subject appears in the absolutive case (Seiter 1980:70)”. To make his analysis conform to this assumption, he proposes that the object is incorporated into the verb in examples such as (16), so that the construction with a nominative subject is actually intransitive.

However, Massam (2000) rejects Seiter’s proposal that non-specific objects are incorporated in Niuean, pointing out that true noun incorporation involves unmodified nouns, but the non-specific object in VOS clauses with a nominative/absolutive subject can be long and complex:

- (18) Ne kai [sipi mo e ika mitaki] a Sione.
 past eat chip COM ACC fish good NOM Sione
 Sione ate good fish and chips. (Massam 2000:106 (16a))

- (19) Ne holoholo [kapiniu kiva] fakaeneena a Sione.
 past wash dish dirty slowly NOM Sione
 Sione is washing dirty dishes slowly. (Massam 2000:106 (16b))

2.4 Massam (2001) and the Type of Niuean

Under standard assumptions, it seems clear at this point that Niuean does not fit the stereotypic ergative pattern: there are transitive clauses such as (18) and (19) which lack an ergative subject. However, as a reviewer points out, under the analysis presented in Massam (2001), Niuean could actually fit the stereotypic ergative pattern. Massam (2001) posits that non-specific objects such as those in (18) and (19) have no case at all. If so, and if a transitive clause is narrowly defined as a clause with an object with structural case, examples such as (18) and (19) would not count as transitive because the object has no abstract case, structural or otherwise.

One motive for the claim that non-specific objects that remain in situ are caseless under Massam’s account is that it allows an explanation of why only specific objects move out of the VP in Niuean. Working under the assumption from Chomsky (1986) that case is only licensed in spec-head configurations and that objects must move to get case, Massam proposes that specific objects move out of the VP in order to get case, while non-specific objects remain inside the VP because they do not and cannot get case. However, this account is not available under the more recent version of case theory, e.g. Chomsky 2000, where case is licensed under c-command and objects do not move to get

ergative language perfectly: ergative case is used only when the direct object moves out of the VP, and not when the direct object remains in situ. Whether Niuean also fits the stereotypic ergative pattern, where all transitive clauses take an ergative subject, depends on whether or not Massam’s 2001 claim that non-specific objects in Niuean have no abstract case is warranted. If those non-specific objects merely lack a case morpheme, but have abstract structural case, then Niuean is clear evidence that Bittner and Hale 1996 are correct in postulating that there is a type of ergative language where ordinary transitivity (the mere presence of a direct object) is not sufficient for ergative case to be used; instead the position of that object inside or outside the VP also matters.

3. Tagalog

Although it has been controversial as to whether Tagalog is even an ergative language, recent work by Aldridge (2012) makes a convincing case that Tagalog is ergative, and moreover that object shift occurs in constructions with an ergative subject.

Under Aldridge’s analysis, Tagalog is much like Inuit. The subject is ergative only when there is a definite object, as in (24). In contrast, the subject is absolutive/nominative when there is only an indefinite object, as in (23), and that indefinite object takes an oblique case, just as in Inuit.⁷

(23) Bumili ang babae ng isda.
 buy abs woman obl fish
 ‘The woman bought a fish.’ (*the fish) (Aldridge 2012:194 (7a))

(24) Binili ng babae ang isda.
 buy erg woman abs fish
 ‘The woman bought the fish.’ (*a fish) (Aldridge 2012:194 (7b))

Aldridge also shows that Tagalog manifests scope differences in the two types of clauses, paralleling what Bittner describes for Inuit.

(25) Binasa [ng lahat ng bata] [ang marami-ng libro]
 read ERG all GEN child ABS many-LINKER book
 ‘All the children read many books.’
 MANY > ALL (Aldridge 2012:195 (9a))

(26) Nagbasa [ang lahat ng bata] [ng marami-ng libro]
 read ABS all GEN child OBL many- LINKER book
 ‘All the children read many books.’
 ALL > MANY (Aldridge 2012:195 (9b))

Aldridge (2012:197) argues that the definite object in the ergative subject construction in

⁷ Aldridge notes that the ergative case written as *ng* in the examples is actually pronounced as *nang*.

by Bittner and Hale 1996 where only clauses where the object moves out of the VP have an ergative subject. However, because Dyirbal is like Inuit in marking the object that remains in situ with an oblique case, Dyirbal also fits the stereotype of an ergative language where ergative case marks all and only transitive subjects under the ordinary definition of transitive. So Dyirbal would fit into either type, just as Inuit would.

The point of this section has been to establish that since Dyirbal does conform to one of Bittner and Hale's two types, it cannot be used to prove the existence of a distinct type based on ordinary transitivity.

5. Nez Perce

Nez Perce is like Dyirbal in that the topicality of the object determines whether or not the subject gets ergative case. When the object is topical, the subject is ergative. With non-topical objects, the subject is nominative (Rude 1985, 1988; Deal 2010), as in the following minimal pair:

- (31) Ergative subject
 Háama+nm péé+'wi+ye wewúkiye+ne. (topical object)⁸
 man+ERG 3/3+shoot+ASP elk+OB
 The man shot an elk. (Rude 1988 (30))
- (32) Nominative subject
 Háama hi+'wi+ye wewúkiye. (non-topical object)
 man 3+shoot+asp elk
 The man shot an elk. (Rude 1988 (31))

Both examples in this minimal pair have a direct object. Thus ordinary transitivity (the mere presence of a direct object) is not sufficient for an ergative subject to be used in Nez Perce. Deal 2010 notes this fact and cites the following additional minimal pair from Crook 1999:

- (33) 'ip-ním péé-qn'i-se qeqíi-ne. (topical object)
 3sg-ERG 3/3-dig-IMPERF edible.root-OB
 'He digs qeqíit roots.' (Crook 1999: 238)
- (34) 'ipí hi-qn'ii-se qeqíit. (non-topical object)
 3SG 3subj-dig-IMPERF edible.root
 'He digs qeqíit roots.' (Crook 1999: 238)

Although it is not obvious from the rather free word order of Nez Perce that the topical object moves out of the VP, object shift has been proposed in the literature on

⁸ Rude 1988 glosses the morphologically marked object case in the ergative subject construction simply as OB.

Nez Perce to explain the difference in the agreement pattern in the topical object construction. As indicated in the gloss of the pair of examples above, topical objects in the ergative subject construction contribute to the verbal agreement, but non-topical objects in the nominative subject construction do not. This suggests that the object moves out of the VP in the ergative subject construction, as in (31) and (33), but remains in situ in the nominative subject construction, as in (32) and (34) (Woolford 1997, Carnie and Cash 2006), paralleling the situation in French participle agreement where objects that move out of the VP agree, while in situ objects do not (Kayne 1989).

An additional possible indication that the topical object shifts out of the VP in Nez Perce is the fact that it changes case. The non-topical object in (31) and (33), has a morphologically unmarked case, while the topical object in (31) and (33) takes a morphologically marked case, *-ne*. This is an example of what is called a marked object in the typological literature. Building on Diesing's 1992 work on specificity and object shift in Icelandic, it has been argued in the literature that marked objects have moved out of the VP, whereas the unmarked objects remain in situ (e.g. Hindi (Bhatt and Anagnostopoulou 1996)).

If the object has moved out of the VP in the Nez Perce examples with an ergative subject, Nez Perce can be added to the list of object shift ergative languages. What we can conclude with confidence at this point is that the presence of a syntactic object, while necessary, is not sufficient for ergative case to be used in Nez Perce. Thus Nez Perce is not an example of the stereotypic ergative type where ergative case is governed only by ordinary transitivity.

In this section, we have seen that several ergative languages conform to the object shift type of ergative language proposed by Bittner and Hale 1996, where object shift is necessary before ergative case can be used, although some of these also conform to the stereotypic ergative pattern where ordinary transitivity (the mere presence of a syntactic object, regardless of its position) governs the distribution of ergative case. Thus so far, we have not found an ergative language that is only consistent with that stereotypic ergative pattern.

In the next section we will see that several languages that have been assumed to belong to that stereotypic type actually belong to the active ergative type.

6. Active Ergative Languages

In active ergative languages, ergative case marks all external arguments (aside from splits). The features, position or even the presence of an object in syntax are not relevant to whether or not the subject gets ergative case.⁹

⁹ Clauses with ergative case in active ergative languages are classified as transitive by Hale and Keyser 1993 under their view that all verbs with an external argument have at least a semantically incorporated

6.1 Georgian

Harris (1981:237) notes that Georgian does not fit the classic typological definition of an ergative language because ergative case does not depend on transitivity in Georgian; she describes the Georgian case pattern as active/inactive. Harris shows that, as under the unaccusative hypothesis, Georgian has two classes of verbs; one has an initial subject (an external argument), and the other does not. Only verbs in the first class can take an ergative subject.¹⁰

(35) vanom itamaša
Vano-ERG he-played-II-3
'Vano played.'
(Harris 1981: 183 (6a))

(36) ninom daamtknara
Nino-ERG she-yawned-II-1
'Nino yawned.'
(Harris 1981:40 (3a))

(37) Vanom ipikra mariḳaze.
Vano-ERG he-thought-II-3 Marika-on
'Vano thought about Marika.'
(Harris 1981:40 (3c))

Verbs in the other class only take a nominative subject, even in the presence of a dative object:

(38) vano aḡiyinda.
Vano-NOM- came-about-croon-II-2
'Vano began to croon/sing in a low voice.'
(Harris 1981:251 (31b))

(39) bavšvi miesalama deidas
child-NOM he-greeted-her-II-2 aunt-DAT
'The child greeted (his) aunt.'
(Harris 1981:76 (20a))

Unlike the situation in object-shift ergative languages, if an object is present in a Georgian clause, its features play no role in determining whether the subject will take ergative case. Indefinite, non-specific, and property type objects can occur with ergative subjects in Georgian if the verb is in the first class:

object. In this sense, one can say that even in active ergative languages, all and only transitive clauses have ergative subjects.

It is important to note that although agents are typical external arguments, the external argument category also includes some other kinds of theta roles in many languages and the exact range of verbs that take an external argument is known to vary from language to language.

¹⁰ There is a split based on tense in Georgian, so that ergative case is only used in Tense II.

verbs that take an external argument. In Inguish, some verbs which express an action take an external argument even if the subject is inanimate and the action is not purposeful:

- (52) xiv k'edzh+jeaqaai
 water.ERG boil+J.TAKE.NW.J
 'The water came to a boil.' (Nichols 2008: 70 (53))

6.4 Udi

Udi belong to the active ergative type, where ergative case marks external arguments, and the presence of an object in syntax is not necessary.

- (53) xäyel-en ɔne-ne-xa
 child-ERG cry-3PL-SAY.PRES
 'The child is crying' (Harris 2002:8 (7))

- (54) merab-en zavod-a aš-ne-b-sa
 Merab-ERG factory-DAT work-3SG-DO-PRES
 'Merab works in a factory' (Harris 2002:81 (23a))

When a syntactic object is present, its properties have no effect on whether or not the subject gets ergative case. Clauses with cognate, indefinite, or property type objects can take an ergative subject in Udi:

- (55) q'onay-en fi-ne uγ-sa
 guest-ERG wine.ABSL-3SG drink.PRES
 'The guest is drinking wine' (Harris 2002:67 (3a))

- (56) irähät-en mya-ne bist'a cil-l-ux
 peasant-ERG here-3SG.sow.PRES seed-OBL-DAT
 'The peasant sows seeds here' (Harris 2002:95 (3a))

Unlike Inuit, there is no contrast in subject marking in minimal pairs with indefinite and definite objects in Udi.

- (57) xinär-en šum banest'a
 girl-ERG bread.ABS bake
 'The girl is baking bread' (Harris 2002:7 (5a))

- (58) xinär-en šum-ax banest'a
 girl-ERG bread-DAT bake
 'The girl is baking the bread' (Harris 2002:7 (5b))

What is interesting about Udi is that there is a contrast in object marking in the above pair of examples, a fact that suggests that there may be object shift in Udi,

In contrast, subjects which are themes/patients (internal arguments) are not marked with ergative case in Kashmiri.

- (71) Shi:shĭ phuṭ.
 glass-NOM broke
 'The glass broke.' (Wali and Koul 1997:152 (3c))

Although we will not discuss them specifically in this paper, many of the related languages such as Hindi also fall into the active-ergative type.

6.7 Active Ergative Section Summary

In this section we have seen a range of languages that are examples of the active ergative type. In these languages, all external arguments are marked with ergative case (except in languages with an aspect split where this holds true only in the perfective aspect). Although a syntactic object is not necessary for ergative case in these languages, clauses with an ergative subject qualify as transitive under the Hale and Keyser 1993 proposal that all verbs with an external argument have at least a semantically incorporated object. Given that an object in syntax is not necessary for ergative case to be used in the active-ergative type, it is not surprising that when an object is present, neither its position nor its features are relevant to whether or not the subject gets ergative case.¹⁵

7. As Yet Unclassified Ergative Languages

In this section, we look at a range of ergative languages whose type is not yet entirely clear, but for which a syntactic object is necessary before ergative case can be used. What is not yet clear is whether that object is always outside the VP in ergative subject constructions in these languages (so that the language would belong to the object-shift ergative type), or whether the position of the object is irrelevant (so that the ordinary notion of transitivity is all that governs the distribution of ergative case). The general problem in classifying the languages discussed in this section is that the word order alone, often SOV or free order, does not tell us where the object is located. Further syntactic research is needed before we can determine which type languages belong to. Although readers may be tempted to simply assume that these languages use only ordinary transitivity to govern ergativity, this is not actually a type posited by Bittner and Hale 1996, nor did the research for the current paper identify even one clear example of that commonly assumed type.

7.1 Archi

Archi is a Caucasian language, but in contrast to the group of Caucasian languages discussed in section 6, Archi does not belong to the active ergative type. External

¹⁵ Additional languages that may be of the active ergative type include the Australian language Pitjantjatjara (Bowe 1990).

- (77) pśaaśa-r ʔana-m q'a-f-a-aγ-ś.
 girl-ABS serving table-OBL HOR-dance-on-PAST-AFF
 'The girl danced on the table' (Colarusso 1992:54 (90g))
- (78) ʔ'ə-ha-r ma-a-pʔə+a-ha.
 man-PL-ABS 3-PRES-look+INTR-PL
 'The men are looking' (Colarusso 1992:75 (135a))

Nevertheless, Kabardian is an ergative language (Colarusso 1992:52), although Colarusso glosses the ergative case as 'oblique' because the ergative and dative morphological cases look alike in Kabardian.¹⁶

- (79) šə+wə-m ʔ'ə-r ø-y-a-wək^yə
 horse+man-OBL man-ABS 3-3-PRES-kill
 'The horseman is killing the man.' (Colarusso 1992:85 (158c))
- (80) ʔ'ə-m pśaaśa-r ø-y-ə-ʔaaγ^wə-aγ-ś
 man-OBL girl-ABS 3(ABS)-3(OBL)-NON PRES-see-PAST-AFF
 'The man saw the girl.' (Colarusso 1992:53 (90a))

The question now is whether ordinary transitivity is sufficient for ergative case to be used in Kabardian, or whether Kabardian belongs to the object shift type of ergative language. The direct objects in the two examples above are definite/specific, and specific objects would undergo object shift in Inuit. However, we cannot tell from the SOV word order of Kabardian whether the object has moved out of the VP. As in Inuit, there are clauses in Kabardian with a nominative-oblique case pattern:

- (81) pśaaśa-r g^yaana-m ø-y-a-də-a-aγ-ś
 girl-ABS shirt-OBL DAT-sew-INTR-PAST AFF
 'The girl was sewing at the shirt.' (action incomplete) (Colarusso 1992:54 (90h))
- (82) šə+wə-r bza-m ø-ø-y-a-fə+a-n-w-ś
 horseman-ABS horn-OBL 3-3-DIR-DAT-drink-DAT-PAST-AFF
 'The horseman will drink the cup (drinking horn).' (Colarusso 1992:178 (294e))

In Inuit, this case pattern occurs when the direct object has not moved out of the VP; however, we cannot simply assume that Kabardian is like Inuit in this respect. The reason for this pattern in these two Kabardian examples could be different; these oblique objects in Kabardian may be like PP objects in English, 'at the shirt', 'of the cup'. Thus at this point, the question remains open as to which notion of 'transitivity' is relevant for the distribution of ergative case.

¹⁶ Ergative case often looks like another inherent or oblique case in the language, sometimes dative, sometimes instrumental, genitive, or locative.

7.5 Section Summary

In this section, we have seen several ergative languages which require a direct object before ergative case can be used, but whose type is not yet certain. Although it is clear that none of these languages are of the active ergative type, we cannot yet determine if any or all of these languages conform to the other type proposed by Bittner and Hale 1996, called here the object shift type. To do that, we would need evidence as to whether the object in examples with an ergative subject is inside or outside the VP in these languages. What we can say at this point is that no conclusive evidence has yet been found to disprove Bittner and Hale's hypothesis, although some of the languages discussed in this section might turn out to be counterexamples.

8. Ergative Agreement Without Ergative Case

Some languages are typologically categorized as ergative based only on their agreement pattern, in the absence of any morphological case on arguments. It is commonly assumed that such languages must have covert ergative case. If this assumption is correct, then these languages are relevant to the question of what notions of transitivity govern the distribution of ergative case. Even if they do not have covert ergative case, we can ask what notion of transitivity is relevant for their agreement patterns.

This section discusses languages from two families, South Sulawesi and Mayan, which have ergative agreement patterns but no morphological ergative case on arguments. These languages do not appear to fit the active ergative type. The South Sulawesi languages may belong to the object shift type because the agreement pattern is ergative only when the direct object is definite. In contrast, the Mayan languages do not fit the object shift type because, although there is evidence from VSO/SOV word order alternations in some languages that definite objects do undergo object shift, the agreement pattern remains ergative in the Mayan languages even when the direct object is indefinite. Thus, unlike any of the languages with morphological ergative case surveyed in this paper, the Mayan languages do not appear to fit either of the two types of ergative languages postulated by Bittner and Hale 1996. If the Mayan languages really do have covert ergative case, then they are a counterexample to the hypothesis that all languages with ergative case belong to one of Bittner and Hale's two types. On the other hand, if that hypothesis turns out to hold for all languages with overt ergative case, then the motivation for positing covert ergative case in Mayan evaporates.

8.1 South Sulawesi Languages

Selayarese is a South Sulawesi language with no morphological case marking. Selayarese has an agreement prefix that cross-references subjects in transitive clauses, but only when the direct object is definite. The definite object is cross-referenced with a second position pronominal clitic:¹⁸

- (91) Mu-pallu=**i** juku?-iñjo ri koron.
2NDAGR-cook=3RDCL fish-DEF in pan
'You cooked the fish in the pan.' (Finer 1999 (11a))

- (92) Ri koron=**i** mu-pallu juku?-iñjo.
in pan=3RDCL 2NDAGR-cook fish-DEF
'In the pan you cooked the fish.' (Finer 1999 (11b))

The pattern changes when the direct object is indefinite. Here the agreement affix does not appear, the subject is cross-referenced by the second position pronominal clitic, and the indefinite object is not cross-referenced at all.

- (93) N-aro=**ko** doe? ri lamari.
int-put=2NDCL money in cupboard
'You put money in a cupboard.' (Basri and Finer 1987 (6a))

The second position pronominal clitic is also used to cross-reference intransitive subjects:

- (94) Ak-kelon=**ko**.
int-sing=2NDCL
'You sang.' (Finer 1994:158 (7d))

This agreement pattern qualifies as ergative in a typological sense because intransitive subjects and some direct objects are cross-referenced with the same series (the pronominal clitic), and some transitive subjects are cross-referenced with a different series (the agreement affix). If there is covert ergative case in Selayarese, then ergatives control the agreement affix and nominatives are cross-referenced by pronominal clitics. The ergative case pattern would be like that found in Niuean: ergative subjects occur only when the direct object is definite. Thus this pattern is consistent with the object-shift type of ergative language.

¹⁸ Note that this pattern is the reverse of what we find in languages with overt ergative case (e.g. Kashmiri (Wali and Koul 1997) and Basque (Arregi and Nevins 2012)), where agreement is controlled by nominatives (often labeled absolutive), and pronominal clitics cross-reference arguments with any case, including nominative. There are exceptions to the ergative agreement pattern in related South Sulawesi languages such as Konjo (Friberg 1991, 1996).

8.2 Mayan

Since the Mayan languages do not mark case on arguments, descriptive work on these languages is traditionally neutral concerning the identity of the cross-referencing morphemes, labeling them simply Set A and Set B. However, because the agreement pattern is typologically ergative, the Set A forms are often labeled ‘ergative’ and the Set B forms ‘absolutive’:

- (95) Ch-ach w-ila. [Jacaltec]
 ASP-ABS.2ND ERG.1ST-see
 ‘I see you.’ (Craig 1977:90)
- (96) Ch-ach toyi.
 ASP-ABS.2ND go
 ‘You go.’ (Craig 1977:90)

The Mayan languages are clearly not of the active-ergative type, because even subjects of verbs that take an external argument such as ‘eat’ are cross-referenced with the ‘absolutive’ marker in intransitive constructions:

- (97) Max-ach lo-w ayach ti. [Q’anjob’al]
 com- ABS.2ND eat-AP you DEM
 ‘You ate.’ (Mateo-Toledo 2008:48)

However, the Mayan languages are also not of the object shift type. There is evidence that object shift takes place in some Mayan languages, because there is a VSO/VOS word order alternation that correlates with the definiteness of the object (England 1991), much like what we saw in Niuean in section 2. In the following K’iche’ examples, the word order is VSO with a definite object, but VOS with an indefinite object:

- (98) xuq’aluj le ala le achi VSO [K’iche’]
 hugged the youth the man
 ‘The youth hugged the man.’ (England 1991 (26c))
- (99) xuq’aluj jun achi le ala VOS
 hugged a man the youth
 ‘The youth hugged a man.’ (England 1991 (26d))

Nevertheless, there is no associated alternation in the agreement pattern. The agreement pattern is the same in all transitive constructions, regardless of whether the object is definite or indefinite in all the Mayan languages.

Thus, if there is covert ergative case in the Mayan languages, these languages are counterexamples to the hypothesis that all languages with ergative case fall into one of

Bittner and Hale's two types. However, if it turns out that no language with overt ergative case actually manifests the transitivity pattern associated with agreement in Mayan, the motivation for positing covert ergative case in Mayan evaporates.

Regardless of whether or not there is covert ergative case in the Mayan languages, we can ask whether the ergative agreement pattern in these languages is governed by ordinary transitivity, where the subject is cross-referenced by the 'ergative' marker when and only when there is a direct object present in the clause. The answer at this point is maybe. There are several sorts of exceptions to this pattern where the 'ergative' marker cross-references an intransitive subject, but Coon 2010 argues for Chol that all of these actually involve alternate constructions. There is also evidence that the 'absolutive' marker can potentially cross-reference a transitive subject, since it can do so in the agent focus construction (e.g. Hale and Storto 1997). I leave this question open here.

As to how this ergative agreement pattern could be generated in the absence of ergative case, the proposal in Bobaljik 1993 would work with very little modification. Under Bobaljik's proposal an ergative pattern can be generated if one cross-referencing series is associated with a higher head in syntax, and the other with a lower head, and the lower head is always 'active'. This approach could generate an ergative agreement pattern in a language with a nominative-accusative case pattern if the higher head is Infl/T, as Bobaljik proposes, while the lower/other series is a clitic (like) element or incorporated pronoun that can potentially cross-reference either a nominative or an accusative argument. In clauses with one argument, the lower series would be used, while in clauses with two arguments, both series would be used. In the transitive agent focus construction, where agreement is suppressed, the other series could cross-reference either the subject or the object, as described Hale and Storto 1997. This approach is consistent with the fact that the series labeled 'ergative' in Mayan is generally agreed to be an agreement morpheme, while the series labeled 'absolutive' "may not be agreement markers", as these are more loosely connected and have been called incorporated pronouns (Mateo-Toledo 2008:48, citing Kaufman 1990 and Robertson 1992).

9. Theories of the Association Between Object Shift and Ergative Case

In this section, we turn to the interesting theoretical question of why there is an association between object shift and ergative case in the object-shift type of ergative language. This section will describe two approaches to this question in the literature, one from Bittner and Hale 1996 and an updated version of one from Woolford 2007. Both approaches begin with the same basic idea, that *moving an object outside the VP puts that object in a syntactic position that potentially changes the conditions for case licensing of the subject*. The two approaches develop this leading idea in different ways.

9.1 Bittner and Hale 1996

Bittner and Hale 1996 begin with the assumption that ergative case is a dependent case which can only be licensed in the presence of another argument that serves as a case competitor. To maintain this assumption even in active-ergative languages, they do not require that case competitor to be present in syntax, but instead adopt the idea in Hale and Keyser 1993 that verbs with an external argument always have at least a semantically incorporated object, and they allow even this kind of object to serve as a case competitor. To account for why ergative case is restricted to object shift constructions in languages such as Inuit, Bittner and Hale postulate that in these languages, VP is a barrier blocking an object inside the VP from serving as a case competitor for a subject outside the VP. Without a local case competitor, ergative case cannot be licensed under their approach, and thus clauses without object shift cannot have an ergative subject in languages where VP is a barrier.

9.2 Object Shift, Ergative Case, and the Minimal Link Condition

I propose a rather different approach to the question of why ergative case is used only in object shift constructions in some languages.¹⁹ The key to this approach is a prediction of the Minimal Link Condition regarding clauses with object shift that is discussed in Chomsky 1995. Because object shift places the object in a position between Infl and the base position of the subject, that closer object should block the probe-goal relation between Infl and the base position of the subject:

(100) [Subject-nom Infl Object-acc [~~Subject-nom~~ v V ~~Object-acc~~]]

To account for the fact that clauses with object shift are nonetheless grammatical in Icelandic, Chomsky 1995 proposes that the fact that the verb raises above the shifted object in Icelandic alters the syntactic configuration in such a way that it no longer violates Minimal Link Condition. In contrast, Holmberg 1999 proposes a very different reason for why object shift does not cause expected violation: object shift does not occur until PF. These two proposals make radically different predictions for cross-linguistic variation: If object shift occurs in syntax, we should find that object shift blocks nominative licensing of the subject in some languages; in contrast, if object shift occurs at PF, we should not find any languages where object shift blocks nominative licensing of the subject. I argue here that the first prediction is correct: there are languages where object shift blocks the ability of Infl to license nominative case on the subject, and this is why we so often see deviations from the nominative-accusative case pattern in object shift constructions cross-linguistically.

Object shift should cause the violation of the Minimal Link Condition violation

¹⁹ The proposal here is an updated version of a proposal in Woolford 2007 which assumed the older idea that nominative can be assigned in a spec-head configuration, in addition to under c-command. The updated version here uses the assumption from Chomsky 2000 that case licensing occurs only under c-command.

sketched above in (100) and thus block nominative licensing of the subject if the intervening shifted object has structural case (accusative). Languages thus have two options to avoid a Minimal Link Condition violation in object shift constructions. One is not to try to license nominative case on the subject, but to use ergative case instead. In the configuration in (101) below, the external argument gets ergative case in its base position from little *v*, and Infl can probe the object, valuing it with nominative case, without incurring a Minimal Link Condition violation:²⁰

(101) [Subj-erg Infl Obj-nom [~~Subj-erg~~ v V ~~Object-nom~~]] ²¹

In this scenario, ergative case is used only as a ‘last resort’, to avoid a violation of the Minimal Link Condition.²²

The other way that languages can avoid a Minimal Link Condition violation in object shift constructions is to use P insertion to encase the object inside a PP. This renders the object ‘inert’ to probing by Infl:

(102) [Subject-nom Infl [_{PP} P Object] [~~Subject-nom~~ v V ~~Object~~]]

A language that uses this P insertion strategy is Hawaiian. Medeiros (2013) shows that Hawaiian has a syntax much like that proposed for Niuean by Massam, discussed above in section 2, where specific objects move out of the VP before it fronts, producing a VSO word order, while nonspecific objects remain in the VP resulting in a VOS order. However, unlike Niuean, the subject does not get ergative case in the object shift construction in Hawaiian, but remains nominative. Instead, a preposition is inserted

²⁰ Although the lower copy of the subject does intervene between Infl and the base position of the object, it is known that a closer DP with non-structural case does not block Infl from licensing nominative case on the object in many languages.

There are languages that obey a stronger version of the Minimal Link Condition under which even an intervening DP with lexical/inherent case does block nominative licensing (Broekhuis and Woolford (in press)). In those languages, even an intervening ergative subject would block Infl from licensing nominative case on the object. In such languages, the object gets accusative case regardless of the case of the subject, and whether or not object shift occurs:

(i) [Subj-erg Infl [~~Subj-erg~~ v V ~~Object-acc~~]]

The fact that some ergative languages have an ergative-nominative case pattern while others have an ergative-accusative pattern is discussed in Legate 2006. Since some of the arguments labeled ‘absolute’ in the typological literature are nominative, and others are accusative, it is quite correct to say, as Aldridge (2004) does, that not all arguments labeled as ‘absolutives’ in the ergative literature are licensed by the same syntactic head.

²¹ I put aside word order differences among languages here for ease of exposition.

²² I assume that ergative case is optionally assigned in these languages, but that nominative is preferred unless the clause would crash due to a Minimal Link Condition violation. The preference for nominatives can be built into the Minimalist Program if an economy condition is added to the grammar making it more economical to use the least marked case that can be licensed on an argument (Broekhuis and Woolford (in press)).

preceding the shifted object:²³

(103) Inu kope hu'ihu'i 'o Noelani. [Hawaiian]
drink coffee cold Noelani
'Noelani is drinking cold coffee. (Medeiros 2013 (10b))

(104) Inu ana 'o Noelani i ke kope hu'ihu'i.
drink dir Noelani P the coffee cold
'Noelani is drinking the cold coffee.' (Medeiros 2013 (10a))

With the shifted object safely encased in a PP and thus rendered inert as an intervener, Infl can license nominative case on the subject without incurring a Minimal Link Condition violation.

This P insertion solution may also be used in some nominative-accusative languages with object shift. It is known that many languages 'mark' specific objects, but leave nonspecific objects unmarked, a phenomenon known as Differential Object Marking (DOM) (e.g. Aissen 2003). It is also known that in many such languages, the 'marked' objects have undergone object shift, as argued for Turkish by Diesing (1992). If the DOM marker is an inserted preposition/postposition (or an inserted non-structural case, if this is possible)²⁴, the reason that it appears on shifted objects in some languages makes sense.²⁵ As in Hawaiian, encasing the shifted object in a PP (or giving it a non-

²³ I would like to thank Eric Potsdam for bringing this fact about Hawaiian to my attention. Medeiros (2013) glosses this *i* morpheme as accusative case, even though it does not appear on non-shifted objects, but evidence that it is actually a preposition comes from the fact that it is used as a preposition elsewhere in the language:

(i) i ka hale ola
prep the hospital
'to the hospital' (Medeiros 2013 (44), from Hawkins 1979)

(ii) i Kailua
prep Kailua
'in Kailua' (Medeiros 2013 (31), from Hawkins 1982)

Here I follow Cook 1999:50 in identifying the *i* as a preposition: "The preposition *i* has many uses in Hawaiian. Among other things, it marks direct objects, goals of motion, temporals, and locative."

²⁴ The DOM marker is often glossed as accusative case, but in my view this is a carryover from descriptive work that only labels cases that are morphologically marked, ignoring the issue of the abstract case of morphologically unmarked objects; under that approach, the case of an unmarked object in situ in a nominative-accusative language such as Turkish can be ignored, leaving the accusative as a convenient label available for use on the shifted object. It also seems unlikely that the DOM marker is an inherent case (although that would avoid a MLC violation) since it does not mark objects that remain in their theta position. Unless inherent case can be inserted, P insertion may be the only option for altering the shifted object so as to avoid a Minimal Link Condition violation in object shift constructions. However, it is difficult to determine the exact identity of DOM markers cross-linguistically, given the problem of distinguishing postpositions that are case morphemes from postpositions that are Ps.

²⁵ Some languages add a postposition/'DOM marker' to shifted objects even in clauses with an ergative subject, e.g. Hindi (Bhatt & Anagnostopoulou 1996). This avoids a violation of the stronger version of the MLC discussed above in footnote 20.

structural case) would render it ‘inert’ as an intervener between Infl and the base position of the subject, thus allowing nominative licensing of the subject in object shift constructions without incurring a violation of the Minimal Link Condition.

10. Conclusion

This paper has provided additional support for Bittner and Hale’s 1996 claim that there is a type of ergative language where ergative case cannot be used unless the direct object moves out of the VP. Strong evidence comes from Massam’s (2000) work on Niuean, where word order confirms the association of object shift and ergative case, and Aldridge’s (2012) similar analysis of the related language Tagalog. Other languages discussed here which belong to this object shift type are Dyirbal and Nez Perce.

Bittner and Hale 1996 propose that ergative languages fall into (just) two types, the object shift type mentioned just above, and the type where all external arguments get ergative case (usually known as the active or active ergative type). They do not discuss what is often considered the prototypic ergative language, one the presence of a direct object in syntax (regardless of its position) is both necessary and sufficient for ergative case to be used. The question is raised here of whether this prototypic/stereotypic ergative pattern ever actually occurs in languages with ergative case. A survey of ergative languages discussed in this paper has so far fail to turn up even one really clear example of an ergative language that *cannot* belong to one of Bittner and Hale’s two types. Many ergative languages that have been assumed to use only ‘ordinary’ transitivity to govern the distribution of ergative case turn out to actually be examples of Bittner and Hale’s first/Warlpiri type, where all external arguments get ergative case, regardless of the presence of an object in syntax. However, there remain a number of ergative languages for which the available literature does not allow us to determine their type. These languages do limit ergative case to clauses with an object present in syntax, but there is insufficient data to determine whether the object has always shifted out of the VP in ergative constructions in those languages. Thus the question actually remains open of whether Bittner and Hale’s two types of ergative languages are the only types that occur.

With respect to theory, the active type of ergative language is expected under the view that ergative is an inherent case licensed in connection with the theta-licensing of the external argument by little *v* (Woolford 2006 and references cited therein). However, the association of ergative case and object shift seems unexpected. Bittner and Hale 1996 propose an account under which VP is a barrier in some languages, so that an object is not sufficiently close to serve as a case competitor for the subject. I present here an alternative account wherein ergative case is used as a ‘last resort’ in object shift constructions to avoid a violation of the Minimal Link Condition which Chomsky 1995 argues object shift should cause. An alternate means of avoiding a Minimal Link Condition violation discussed in this paper is P insertion on the object, a strategy used in Hawaiian.

References

- Aissen, Judith 2003 Differential object marking: Iconicity vs. economy. *Natural Language and Linguistic Theory* 21:435–448.
- Aldridge, Edith 2004 *Ergativity and Word Order in Austronesian Languages*. Doctoral dissertation, Cornell University, Ithaca.
- Aldridge, Edith 2012 Antipassive and ergativity in Tagalog. *Lingua* 122:192-203.
- Alekseev, M. E., and R. N. Radžabov 1989 Tsez. In *The Indigenous Languages of the Caucasus*. Volume 3: The North East Caucasian Languages. Part 1, ed. by Michael Job and Rieks Smeets, 115-163. Ann Arbor: Caravan Books.
- Arregi, Karlos and Andrew Nevins 2012 *Morphotactics: Basque Auxiliaries and the Structure of Spellout*. Dordrecht: Springer.
- Basri, Hasan and Daniel Finer 1987 The definiteness of trace. *Linguistic Inquiry* 18:141-147.
- Bhatt, Rajesh and Elena Anagnostopoulou 1996 Object Shift and Specificity: Evidence from ko-phrases in Hindi. *CLS* 32:11-22.
- Bittner, Maria 1994 *Case, Scope, and Binding*. Dordrecht: Kluwer.
- Bittner, Maria and Ken Hale 1996 Ergativity: Toward a theory of a heterogeneous class. *Linguistic Inquiry* 27:531-604.
- Blake, Barry J. 1979 *A Kalkatungu Grammar*. Canberra: Dept. of Linguistics, Research School of Pacific Studies, Australian National University.
- Blake, Barry J. 1982 The absolutive: Its scope in English and in Kalkatungu. In *Studies in Transitivity* (Syntax and Semantics Vol. 15), ed. by Paul J. Hopper and Sandra A. Thompson, 71-94. New York: Academic Press.
- Blake, Barry J 1983 Structure and word order in Kalkatungu: The anatomy of a flat language. *Australian Journal of Linguistics* 3(2):143-175.
- Blake, Barry J 1994 *Case*. Cambridge: Cambridge University Press.
- Bobaljik, Jonathan 1993 On ergativity and ergative unergatives. MITWPL 19, ed. by Colin Phillips. Department of Linguistics, MIT, Cambridge, Massachusetts.
- Bowe, Heather 1990 *Categories, Constituents, and Constituent Order in Pitjantjatjara, an Aboriginal Language of Australia*. London: Routledge.
- Broadwell, George Aaron 2006 *A Choctaw Reference Grammar*. Lincoln Nebraska: University of Nebraska Press.
- Broekhuis, Hans and Ellen Woolford (in press) Minimalism and Optimality Theory. In *Cambridge Handbook of Generative Syntax*, ed. by Marcel den Dikken. Cambridge: Cambridge University Press.
- Carnie, Andrew and Philip Cash 2006 Tree-geometric hierarchies and Nuumiipuutímt (Nez Perce) case. In *Ergativity*, ed. by Alana Johns, Diane Massam, and Juvenal Ndayiragije, 229-244. Dordrecht: Springer Academic Press.
- Cheng, Lisa and Hamida Demirdache 1993 External arguments in Basque. In *Generative Studies in Basque Linguistics*, ed. by José Ignacio Hualde and Jon Ortiz de Urbina, 71-88. Amsterdam: John Benjamins.
- Chomsky, Noam 1995 *The Minimalist Program*. Cambridge, MA: MIT Press.

- Chomsky, Noam 2000 Minimalist inquiries: The framework. In *Step by Step*, ed. by Roger Martin, David Michaels, and Juan Uriagereka, 89-155. Cambridge, MA: MIT Press.
- Colarusso, John 1992 *A Grammar of the Kabardian Language*. Calgary, Alberta: University of Calgary Press.
- Comrie, Bernard 1978 Ergativity. In *Syntactic Typology*, ed. by W. Lehmann, 329-394. Austin: The University of Texas Press.
- Comrie, Bernard 1984 Reflections on verb agreement in Hindi and related languages. *Linguistics* 22, 857-864.
- Comrie, Bernard 2000 Valency-changing derivations in Tsez. In *Changing Valency: Case Studies in Transitivity*, ed. by R.M.W. Dixon and A. Y. Aikhenvald, 360-374. Cambridge: Cambridge University Press.
- Cook, K 1999 Hawaiian he 'o and i: copular verbs, prepositions or determiners? *Oceanic Linguistics* 37:43-65.
- Coon, Jessica 2010 Rethinking split ergativity in Chol. *IJAL* 76:207-253.
- Craig, Colette 1977 *The Structure of Jacaltec*. Austin: University of Texas Press.
- Crook, Harold David 1999 *The Phonology and Morphology of Nez Perce Stress*. Doctoral dissertation, UCLA.
- Davies, William 1986 *Choctaw Verb Agreement and Universal Grammar*. Dordrecht: Reidel.
- Deal, Amy Rose 2010 Ergative case and the transitive subject: a view from Nez Perce. *Natural Language and Linguistic Theory* 28:73-120.
- Diesing, Molly 1992 *Indefinites*. Cambridge, MA: MIT Press
- Dixon, R. M. W. 1972 *The Dyirbal Language of Northern Queensland*. Cambridge: Cambridge University Press.
- Dixon, R. M. W. 1979 Ergativity. *Language* 55:59-138.
- Dixon, R. M. W. 1994 *Ergativity*. Cambridge: Cambridge University Press.
- England, Nora 1991 Changes in basic word order in Mayan languages. *International Journal of American Linguistics* 57: 446-486.
- Finer, Daniel 1994 On the nature of two A' positions in Selayarese. In *Studies on Scrambling: Movement and Non-movement Approaches to Free Word-Order Phenomena*, ed. by Norbert Corver and Henk van Riemsdijk, 153-183. Berlin: Mouton de Gruyter.
- Finer, Daniel 1999 Cyclic clitics in Selayarese. *Toronto Working Papers in Linguistics* 16(2):137-159.
- Friberg, Barbara 1991 *Ergativity, Focus and Verb Morphology in Several South Sulawesi Languages*. New Zealand: Linguistic Society of New Zealand.
- Friberg, Barbara 1996 Konjo's peripatetic person markers. *Papers in Austronesian Linguistics* 3. Pacific Linguistics Series A, No. 84:137-171. Canberra: Australian National University.
- Hale, Ken and Jay Keyser 1993 On argument structure and the lexical expression of syntactic relations. In *The View from Building 20: Essays in Honor of Sylvain Bromberger*, ed. by Kenneth Hale and Samuel Jay Keyser, 53-109. Cambridge, MA:

- The MIT Press.
- Hale, Ken and Luciana Storto 1977 Agreement and spurious antipassives. *ABRALIN — Boletim da Associação Brasileira de Lingüística*, N° 20, Homenagem a Aryon Dall-Igna Rodrigues. January 1997:61-89.
- Hawkins, E., 1979 *Hawaiian Sentence Structures*. Pacific Linguistics Series B No. 61. Canberra: Australian National University.
- Hawkins, E., 1982 *Pedagogical Grammar of Hawaiian* (Revised). Honolulu: University of Hawai‘i Press.
- Harris, Alice C. 1981 *Georgian Syntax*. Cambridge: Cambridge University Press.
- Harris, Alice C. 2002 *Endoclitics and the Origins of Udi Morphosyntax*. Oxford: Oxford University Press.
- Holisky, Dee Ann 1984 Anomalies in the use of ergative case in Tsova-Tush. *Folia Slavica* 7:181-194.
- Holisky, Dee Ann 1987 The case of the intransitive subject in Tsova-Tush (Batsbi). *Lingua*. 71:103-32.
- Holmberg, Anders 1999 Remarks on Holmberg’s Generalization. *Studia Linguistica* 53:1-39.
- Kaufman, Terrence 1990 Algunos rasgos estructurales de los idiomas Mayances con referencia especial al K’iche’. In *Lecturas Sobre la Lingüística Maya*, ed. by Nora England and Stephen Elliot, 59-114. Guatemala: Centro de Investigaciones Regionales de Mesoamérica.
- Kayne, Richard 1989 Facets of Romance past participle agreement. In *Dialect Variation and the Theory of Grammar*, Foris, ed. by P. Beninca, 85-103. Foris: Dordrecht.
- Kibrik, Aleksandr E. 1979 Canonical ergativity and Daghestan languages. In *Ergativity*, ed. by F. Plank, 61-77. Academic Press, London.
- Kibrik, Aleksandr E. 1998 Archi (Caucasian – Daghestanian). In *The Handbook of Morphology*, ed. by Spencer and Zwicky, 455-476. Oxford: Blackwell.
- Kratzer, Angelika 1996 Severing the external argument from its verb. In *Phrase Structure and the Lexicon*, ed. by Johan Rooryck and Laurie Zaring, 109-137. Dordrecht: Kluwer Academic Publishers.
- Laka, Itziar 2005 On the nature of case in Basque: Structural or inherent? In *Organizing Grammar: Linguistic Studies in Honor of Henk van Riemsdijk*, ed. by Hans Broekhuis, Norbert Corver, Jan Koster, Riny Huybregts and Ursula Kleinhenz, 374-382. Berlin: Mouton de Gruyter.
- Laka, Itziar 2012 Merging from the temporal input: on subject-object asymmetries and an ergative language. In *Rich Grammars from Poor Inputs*, ed. by R. Berwick and M. Piattelli-Palmarini. Oxford: Oxford University Press.
- Legate, Julie 2006 Split absolutive. In *Ergativity: Emerging Issues*, ed. by A. Johns, D. Massam, J. Ndayiragije, 143-171. Dordrecht: Springer.
- Legate, Julie 2008 Morphological and abstract case. *Linguistic Inquiry* 39:55-101.
- Levin, Beth 1983 *On the Nature of Ergativity*. Doctoral dissertation, MIT, Cambridge, Massachusetts.

- Levin, Beth 1989 The Basque verbal inventory and configurationality. In *Configurationality: The Typology of Asymmetries*, ed. by László Marácz and Pieter Muysken, 39-62. Dordrecht: Foris.
- Massam, Diane 2000 VSO and VOS: Aspects of Niuean word order. In *The Syntax of Verb Initial Languages*, ed. by A. Carnie and E. Guilfoyle, 97-116. Oxford: Oxford University Press.
- Massam, Diane 2006 Neither absolutive nor ergative is nominative or accusative. In *Ergativity: Emerging Issues*, ed. by Johns, D Massam and J Ndayiragije, 27-46. Dordrecht: Springer.
- Mateo-Toledo, Eladio 2008 *The Family of Complex Predicates in Q'anjob'al (Maya); Their Syntax and Meaning*. Doctoral dissertation, University of Texas, Austin.
- Medeiros, David J 2013 Hawaiian VP-remnant movement: A cyclic linearization approach. *Lingua* 127:72-97.
- Nichols, Johanna 2008 Case in Ingush syntax. In *Case and Grammatical Relations. Studies in Honor of Bernard Comrie*. (Typological Studies in Language 81). ed. by Greville G. Corbett and Michael Noonan, 57-74.
- Nichols, Johanna 2011 *Ingush Grammar*. Berkeley: University of California Press.
- Pearson, Matthew 1997 Pied-piping in the left periphery. In *NELS 27*, ed. by K. Kusumoto, 321-335.
- Robertson, John S. 1992 *The History of Tense/Aspect/Mood/Voice in the Mayan Verbal Complex*. Austin: University of Texas Press.
- Rude, Noel. 1985 *Studies in Nez Perce Grammar and Discourse*. Doctoral dissertation, University of Oregon.
- Rude, Noel 1988 Ergative, passive, and antipassive in Nez Perce. In *Passive and Voice*, ed. by M. Shibatani, 547-560. Amsterdam: John Benjamins.
- Seiter, William J. 1980 *Studies in Niuean Syntax*. New York: Garland Publishing.
- Wali, Kashi and Omkar N. Koul 1997 *Kashmiri*. London: Routledge.
- Woolford, Ellen 1997 Four-way case systems: Ergative, nominative, objective and accusative. *Natural Language and Linguistic Theory* 15:181-227.
- Woolford, Ellen 2006 Lexical case, inherent case, and argument structure. *Linguistic Inquiry* 37:111-130.
- Woolford, Ellen 2007 Case locality: Pure domains and object shift. *Lingua* 117 (9):1591-1616. Special issue guest edited by Vieri Samek-Lodovici, *Studies in OT Syntax and Semantics*.

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