In this paper, I analyze the form and meaning of adjectival participles in Basque, an ergative language with a predominant use of analytic verbal forms. I show that even though adjectival participles have similar morphological makeup, they can be the exponents of different aspectual configurations, with different interpretation and syntactic distribution. As attested for other languages such as English and Greek, Basque adjectival participles can be interpreted as stative or resultative (Embick 2004), and also as target state participles or resultant state participles (Kratzer 2000; Anagnostopoulou 2003). As noted in the literature (Anagnostopoulou 2003; Alexiadou & Anagnostopoulou 2008; Alexiadou et al. 2014; Alexiadou et al. 2015), these types are subject to different syntactic distribution, particularly regarding the acceptability of different sorts of event-related and subject-oriented modifiers. In this paper, I propose that a further aspectual class must be included into the typology of adjectival participles: experientials. In fact, adjectival participles in Basque can be interpreted experientially under certain conditions. The five-way typology of participles emerges as the result of the combination of two different aspectual heads (a stativizing Asp head, as in Kratzer 2000 and Embick 2004, and an aspectual operator with anteriority semantics, as in Kratzer 2000; Alexiadou et al. 2014; Alexiadou et al. 2015) with complements of different sizes and nature. In particular, the experiential reading arises when the Asp head of anteriority combines with particular vP semantics and/or with a particular linking relation between the subject of predication and the arguments within VoiceP.

**Keywords:** adjectival participles; event instantiation; experiential; resultative

1 Introduction

The research on adjectival participles is an area of substantive study for the analysis of the interface between syntax and the lexicon (Wasow 1977) and syntax and morphology (Marantz 2001; 2007; Anagnostopoulou and Samioti 2014), as well as for the study of lexical categories and the projection of syntactic heads like v, Voice and Aspect. In this paper, I analyze the form and meaning of adjectival (-a ending) participles in Basque, an ergative language with a predominant use of analytic verbal forms. I show that even though adjectival participles have similar morphological makeup, they can be the exponents of different aspectual configurations, with different interpretation and syntactic distribution. As attested for other languages such as English and Greek, Basque adjectival participles can be interpreted as stative or resultative (Embick 2004), and also as target state participles or resultant state participles (Kratzer 2000). As noted in the literature (Anagnostopoulou 2003; Alexiadou & Anagnostopoulou 2008; Alexiadou, Gehrke & Schäfer 2014; Alexiadou, Anagnostopoulou & Schäfer 2015), these types are subject to different syntactic distribution, particularly regarding the acceptability of different sorts of event-related and subject-oriented modifiers. In this paper, I propose that a further aspectual class must be included into the typology of adjectival participles: experientials. In fact, adjectival participles
in Basque can be interpreted experientially under two necessary conditions: when the verb embedded in the participle does not yield a good result state (e.g. stative/unergative verbs), and/or when the subject of predication is co-indexed with the subject of the embedded transitive verb. Additionally, this interpretation is usually favored by the presence of iterative adverbs and plural direct objects, although this is not strictly necessary.

In the same line as previous literature, I argue that stative, target state, resultant state and experiential adjectival participles are the result of different syntactic configurations. In particular, I claim that two different sorts of aspectual heads give rise to the five-way classification of participles: a stativizing Asp head (Kratzer 2000; Embick 2004), and an aspectual operator with anteriority semantics (Kratzer 2000; Alexiadou et al. 2014; Alexiadou et al. 2015). As for the experiential participle, this interpretation emerges when the Asp head of anteriority combines with a particular vP semantics and with a particular co-indexing relation between the subject of predication and the arguments within VOICEP.

The structure of the paper is as follows. In section 2, I present verbal and adjectival participles in Basque, and I provide a brief introduction to the different classes of adjectival participles attested in the literature. In section 3, I analyze the structure of resultative adjectival participles in Basque, resorting to different types of event-related and subject-oriented modification. In section 4, I show that adjectival participles can also be experiential under certain circumstances and I provide some evidence for their adjectival status within this interpretation. In section 5, I explain the syntactic and semantic composition of the four different classes of adjectival participles and, finally, in section 6, I conclude.

2 About Basque and adjectival participles

2.1 Basque verbal (and non-verbal) configurations

Apart from a few verbs like joan ‘go’ and etorri ‘come’, the vast majority of inflected verbs in Basque are analytic, consisting of a verb in a participial form and an auxiliary (izan ‘be’ or edun ‘have’), which includes all inflectional morphology except for aspect. In turn, the participial form of the verbs takes different aspectual markers, each of them giving rise to a different aspectual interpretation: depending on the tense of the auxiliary, perfect or perfective in (1), imperfective in (2) and prospective in (3).

(1) Neska-k ohera-tu dira /ziren. PERFECT/PERFECTIVE
girl.DET-PL.ABS go.bed-PTCP be.3plABS be.3plABS.PST
‘The girls have gone to bed.’ / ‘The girls went to bed.’

(2) Neska-k ohera-tzen dira. IMPERFECTIVE
girl.DET-PL.ABS go.bed-IMPRF be.3plABS
‘The girls go to bed.’

(3) Neska-k ohera-tu-ko dira. PROSPECTIVE
girl.DET-PL.ABS go.bed-PTCP-GEN be.3plABS
‘The girls will go to bed.’

The adjectival participial form that is analyzed in this paper is built on top of the perfect/perfective participle – which will be called bare participle for convenience, following Zabala (1993) –, and consists of an additional morpheme -a (glossed as Pred here) and

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1 The use of this group of verbs in the synthetic configuration is aspectually very restricted too, as this configuration has only imperfective (progressive or on-going) interpretation. To take other aspectual meanings such as the perfect or prospective, speakers have to resort to the analytic configuration of these verbs, like with other verbs. In the analytic forms, these verbs can also have imperfective meaning when headed by -(z)en, thus expressing a similar content to that of their synthetic form.
an optional number agreement morpheme attached when the subject of predication has plural number, as in (4).

(4) Neska-k ohera-tu-a-k dira/daude. RESULTATIVE
girl.DEPL.ABS go.bed-PTCP-PRED-PL be.3PLABS/LOC.be.3PLABS
‘The girls are gone to bed.’

Therefore, the (verbal) bare participle and the (adjectival) -a ending participle differ in the use of the -a morpheme and number agreement: the bare participle shows no number agreement with respect to the subject (1), whereas the participle ending in -a takes a -k morpheme corresponding to the plural when the subject of predication is plural (4). Apart from these morphological contrasts, the -a ending participle differs from the bare participle in that the former has a more restricted aspectual interpretation. In an example like (4), the participle is interpreted as a resultative: in the reference time (present), the girls are in the state of being in bed as a result of the prior event of going to bed.\(^2\)\(^3\) The bare participle in (1), in contrast, can be interpreted as the perfect of result, as an experiential perfect or as a perfect of recent past (Comrie 1976).\(^4\)

Regarding the derivation and the morphological composition of the -a ending participle, someone could think that -a is actually standing for an adjectivizing functional head. However, this is not the position that I adopt here. In fact, the -a morpheme is only necessary when the participle occurs in predicative position (6). When it modifies a noun, in attributive position, as in (5), the participle can be bare when the noun phrase is headed by the indefinite determiner bat ‘a’ (5a). The -a morpheme has exactly the same distribution in individual level adjectives like gorri ‘red’.

(5) a. liburu apur-tu bat
   book break-PTCP DET.INDF
   ‘a broken book’

b. liburu gorri bat
   book red DET.INDF
   ‘a red book’

(6) a. Liburu bat hautsi-a da/dago.
   book DET.INDF.ABS break.PTCP-PRED be.3SGABS/LOC.be.3SGABS
   ‘A book is broken.’

b. Liburu bat gorri-a da.
   book DET.INDF.ABS red-PRED be.3SGABS
   ‘A book is red.’

If -a was an adjectivizing morpheme, we would expect it to appear also when the participle is in attributive position (5a), and we would not expect it to occur with root-derived

\(^2\) Basque has other two suffixes to form resultative participles, -ta and -rik (e.g. oheratuta and oheraturik), which are broadly dialectologically distributed. I will not deal with them in this paper, since they diverge from -a ending participles in a number of aspects (e.g. they do not agree in number with the subject and cannot appear in attributive position). In fact, in previous literature, they have been considered adverbial (Rebuschi 1984) or adpositional (Artiagoitia 1995; Berro 2019) rather than adjectival. In this paper, I will focus on adjectival participles and leave -ta and -rik participles aside, but the interested reader can consult the works mentioned.

\(^3\) In this paper, examples and judgments from Standard Basque have been considered, particularly from the Standard Basque used by southern speakers.

\(^4\) It is worth noting that in previous stages of the language, as in the 15th and the 16th centuries, the configuration involving the bare participle used to have resultative value (Mounole 2011). Nowadays, it is used as a perfect or as a perfective (1).
adjectives like gorri ‘red’. On the basis of that, I will claim that -a is the exponent of a Pred(icatorive) head (Baker 2003), extending the analysis of -a made by Eguren (2012) for non-derived adjectives.\(^5\)

Thus, verbal and adjectival participles are similar in form: without taking -a into account, the participle occurring in perfect or perfective contexts is morphophonologically the same as that occurring in attributive and predicative positions. Nevertheless, they behave syntactically very distinctly. Unlike bare participles, -a ending participles occupy positions that are usually filled by adjectives: only -a ending participles are compatible with the locative copula egon ‘be’ (7a), can serve as complement of AP-selecting verbs (irudi, eman ‘seem, look like’) (7bc), and can be modified by the degree adverb oso ‘very’ (7c). Bare participles are not allowed in these contexts (8).

(7) a. Liburu-a-k hautsi-a-k dira /daude.
book-DET-PL.ABS break.PTCP-PRED-PL be.3plABS LOC.be.3plABS
‘The books are broken.’
b. Liburu-ek hautsi-a-k dirudite.
book-PL.ERG break.PTCP-PRED-PL seem.3plERG
‘The books seem broken.’
c. Aulki-a-k erreserba-tu-a ema-ten du.
chair-DET-ERG break-PTCP-PRED seem-IMPRF have.3sgERG
‘The chair seems reserved.’
d. Liburu-a oso hautsi-a dago.
book-DET.ABS very break.PTCP-PRED LOC.be.3sgABS
‘The book is very broken.’

(8) a. Liburu-a-k hautsi dira /*daude.
book-DET-PL.ABS break.PTCP be.3plABS LOC.be.3plABS
With ‘be’: ‘The books have broken.’ (perfect)
With locative ‘be’: ungrammatical
b. *Liburu-ek hautsi dirudite.
book-PL.ERG break.PTCP seem.3plERG
Intended: ‘The books seem broken.’
chair-DET-ERG break-PTCP seem-IMPRF have.3sgERG
Intended: ‘The chair seems reserved.’
book-DET.ABS very break.PTCP be.3sgABS /LOC.be.3sgABS
Intended: ‘The book is very broken.’

Furthermore, another context where we find a contrast between bare participles and -a ending participles are interrogatives. In wh-questions formed from clauses involving a

\(^5\) It is worth noting that -a is homophonous with the Basque article -a, which can have either definite, existential or generic interpretation depending on the context and the type of NP which it attaches to (Artiagoitia 2002; Itxekibarri 2005). Departing from Ortiz de Urbina & Uribe-Etxeberria (1991), in the present analysis, -a in participles is considered to stand for a distinct syntactic head (not D, but Pred) as it occurs in predicates and not in arguments, and lacks the quantificational features of the determiner version of -a. Nevertheless, it must be borne in mind that both -a-s –the determiner and the predicative head– share the feature that number marking or agreement can only occur if -a has been attached (in arguments, txakurr-a-k [dog-DET-PL] ‘the dogs’ but *txakurr-k [dog-PL]; and in predicates, either in adjectival participles apur-tu-a-k [break-PTCP-PRED-PL] ‘broken (pl)’ but *apur-tu-k [break-PTCP-PRED-PL] or in root-derived adjectives, gorri-a-k [red-PRED-PL] ‘red (pl)’ but *gorri-k [red-PRED-PL].
bare participle, the participle is fronted together with the inflected element – the auxiliary in this analysis – to the position immediately following the wh-word (9a). In contrast, in interrogative clauses built from -a ending participles, only the inflected element – the copula – is fronted to that position (10b). An example where the -a participle is fronted together with the copula is ungrammatical (10a). Similarly, the example where the bare participle is left behind is also ungrammatical (9b), at least in southern varieties of Basque.⁶

(9)  
   a. Nor orraz-tu da?  
      Who.ABS comb-PTCP be.3sgABS  
      ‘Who has combed?’  
   b. *Nor da orraz-tu?  
      Who.ABS be.3sgABS comb-PTCP  
      Intended: ‘Who has combed?’

(10) a. *Nor orraz-tu-a dago?  
      Who.ABS comb-PTCP-PRED LOC.be.3sgABS  
      Intended: ‘Who is combed?’
   b. Nor dago orraz-tu-a?  
      Who.ABS LOC.be.3sgABS comb-PTCP-PRED  
      ‘Who is combed?’

In this respect too, -a ending participles behave like root-derived adjectives:

⁶ I want to thank an anonymous reviewer for suggesting this test in order to differentiate verbal and adjectival participles. Nevertheless, the behavior of different types of participles in this test is an aspect that needs to be studied further, given that resultant state adjectival participles and experiential adjectival participles seem to accept better (although not completely) to be fronted in wh-questions.

(i) a. Noiz dago egin-a pastel hau?  
      when LOC.be.3sgABS do.PTCP-PRED cake this.ABS  
      Resultant state -a ending participle
   b. ??Noiz egin-a dago pastel hau?  
      when do.PTCP-PRED LOC.be.3sgABS cake this.ABS  
      ‘When has this cake been done?’

(ii) a. Nor dago pelikula asko iku-i-a?  
      who.abs loc.be.3sgABS film a.10.abs see-PTCP-PRED  
      Experiential -a ending participle
   b. ??Nor iku-i-a dago pelikula asko?  
      who.abs see-PTCP-PRED LOC.be.3sgABS film a.10.abs  
      ‘Who has seen many films?’ (lit. who is seen many films?)

In any case, the bare participles egin ‘done’ and iku ‘seen’ in similar wh-questions cannot be left behind (iiia) (iva), so that there is still a clear contrast between the -a ending participles in (i) and (ii) and the bare participles in (iii) and (iv).

(iii) a. *Noiz da egin pastel hau?  
      when be.3sgABS do.PTCP cake this.ABS  
      Perfect (of result)
   b. Noiz egin da pastel hau?  
      when do.PTCP be.3sgABS cake this.ABS  
      ‘When has this cake been done?’

(iv) a. *Nork du pelikula asko iku-i?  
      who.erg have.3sgerg film a.10.abs see-PTCP  
      Experiential perfect
   b. Nork iku-i du pelikula asko?  
      who.erg see-PTCP have.3sgABS film a.10.abs  
      ‘Who has seen many films?’
These distributional facts show that even though bare participles and -a participles have the same form, they have different syntax. More specifically, I consider that bare participles (8) are verbal, whereas -a ending participles are adjectival (7) and that to be the reason for their different distribution. Consequently, I will claim that when the latter occurs in predicative position, like in (6a) and (7a), the inflected element (izan ‘be’ or egon ‘[locative] be’) is really a copula, and not an auxiliary (Ortiz de Urbina & Uribe-Etxebarria 1991; Hualde et al. 1994; Artiagoitia 1995; de Rijk 2008). In contrast, the inflected element that combines with the bare participle is an auxiliary. This explains the fact that only izan ‘be’, and not egon ‘[locative] be’, is compatible with the bare participle (8a): izan ‘be’ can be an auxiliary in Basque, but egon is not. The locative egon only combines with non-verbal predicates: adjectival or adpositional phrases. It accepts to have -a ending participles as complement because -a ending participles are adjectival.7

A further clarification note is in order here: unlike in other languages, adjectival participles are not passive in Basque (Eguzkitza 1981; Ortiz de Urbina & Uribe-Etxebarria 1991; Artiagoitia 1995), given that they are acceptable with ergative arguments interpreted as initiators of the event, just like verbal participles (see section 3.4). Nevertheless, as I will show in section 3.3, the syntactic distribution of ergative subjects is not the same in verbal and adjectival participles, as their syntactic arrangement in the clausal architecture is different.

2.2 Different types of adjectival participles

Adjectival participles have been claimed to be of a hybrid category, with properties belonging both to verbs and to adjectives. They behave like verbs in that they (usually) denote an event and in that they can be, in certain cases, modified like verbs, but they also resemble adjectives in that they occur in positions that are usually reserved to adjectives, such as in attributive or complement predicate position and in complement position of AP-selecting verbs like seem.

On the other hand, as has been noted in the literature, adjectival participles do not form a homogeneous group. Starting from Wasow (1977), deverbal -ed forms in English have been claimed to be formed at different levels of the language architecture. Depending on whether an event is implied or not, and on the acceptability of different event-related and subject-oriented modifiers, adjectival participles have been argued to be of different sizes, with different structural compositions, particularly involving different verbal layers (e.g. Anagnostopoulou 2003; Embick 2004; Alexiadou & Anagnostopoulou 2008; Bruening 2014; Doron 2014). Kratzer (2000) classified adjectival participles into resultant state and target state participles, and Embick (2004), in turn, differentiated between resultative and stative adjectival participles. In this paper, we will focus on these two typologies, and

7 Adjectival participles are also compatible with transitive copulas: edun and eduki ‘have’, as in Spanish, English and other languages. In that configuration, the ergative subject of the copula can be interpreted as a holder of the state predicated of the absolutive argument (e.g. I have my shoes cleaned), or as the initiator of the event underlying the participle (e.g. I have cleaned my shoes), in which case it is interpreted experientially (Hualde et al. 1994). In this paper, I will leave aside the use of the transitive copula and focus on the intransitive one (izan ‘be’ or egon ‘[locative] be’), for reasons of space and because the analysis of transitive copulas is orthogonal to the present one.
I will add a third aspectual class – particularly to Embick’s two-way typology –, which corresponds to the participles that are interpreted experientially.

Kratzer (2000) classifies phrasal participles into two different semantic classes: target state participles and resultant state participles (Parsons 1990). Target state participles denote a state that is reversible and that can be modified in German by the adverb immer noch ‘still’. In contrast, resultant state participles denote a state that is not reversible; a state that is the result of a culminated event. Anagnostopoulou (2003) and Alexiadou & Anagnostopoulou (2008) show that in Greek only resultant state participles – and not target state participles – involve the projection of Voice. This asymmetry can also be observed in Basque, as I will show in section 3.

On the other hand, Embick (2004) classified English passive adjectival participles in two groups, apart from the verbal participle (called eventive): stative and resultative.

(12) English (example modified from Embick 2004: 356)
The door was closed
   Eventive passive: someone closed the door
   Resultative: the door was in a state of having become closed
   Staticive: the door was in a state of being closed

Stative participles denote a state, like a non-derived adjective, whereas the resultative denotes a state that is the result of a previous event, where this event is grammatically represented. In the former, the participle is syntactically structured with a stativizing Aspectual head (AspS) projected directly on top of an acategorial Root, whereas in the latter, the Root is verbalized (in a verbal phrase, vP) before being selected by AspR.9,10

There are different diagnostics to tell apart stative participles from resultatives ones. One involves the use of adverbs that modify the manner in which the event has taken place (Kratzer 1994). Stative participles do not allow this kind of modification (13a), whereas resultatives do (14a). Another one is the ability to occur as complement of verbs of creation like build, create or make (Embick 2004). Resultative participles are not acceptable in this environment (14b), since they imply a previous event and this is incompatible with the presence of the verb of creation. Stative adjectival participles, in contrast, are perfectly grammatical in this context (13b).

(13) English (Embick 2004)  
   b. The door was built open.

(14) English (Embick 2004)  
   a. The package remained carefully opened.  
   b. *The door was built opened.

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9 Anagnostopoulou & Samioti (2014) have challenged this claim showing that, in Greek, adjectival stative participles can also be built on verbs. In Greek, -tos ending participles do not entail the existence of a prior event, and were considered to be Root-derived (Alexiadou & Anagnostopoulou 2008). However, certain -tos participles involve the morphological exponents of verbalizers (e.g. -iz, -on, -a etc.), showing that -tos participles can also be derived from verbs. In Basque, we find similar situations, with adjectival participles like inguratua ‘surrounded’ and osatua ‘formed’, which may not imply an event (Kratzer 2000) but which show morphological signs of being built on verbs (-a ending roots in the verbs ingura-tu ‘to surround’, osa-tu ‘to form’, see Berro 2019). In any case, this is not relevant for the analysis of the present paper, so I am not going deeper into this issue.
10 I take the AspR and the AspS notations from Embick (2004). AspR refers to the stativizing head combining with an eventive complement and AspS refers to the stativizing head that takes a non-eventive complement. These two versions of the same head only differ in terms of the type of complement they take.
Thus, even if the same root (√open) is used in (13ab) and (14ab), the contrasts found suggest that it is being used in different configurations, and this is supported by the participial morphology (-ed) only found in the resultative and not in the stative adjective. In other cases, however, the same participial form is used in both (e.g. closed) (15).

(15) **English** (Embick 2004: 358)

a. The package remained carefully closed. *Resultative participle*

b. The door was built closed. *Stative participle*

Kratzer’s and Embick’s classifications do not have a one-to-one correspondence. In fact, as explained by Alexiadou et al. (2014), Kratzer’s (2000) target state participles are not necessarily stative. They can have event implications and therefore, they are argued to be built on top of vP (Anagnostopoulou 2003; Alexiadou & Anagnostopoulou 2008; Alexiadou et al. 2014; Alexiaodu et al. 2015). Similarly, Kratzer’s resultant state participles do not correspond to Embick’s resultative participles, since target state participles can also be resultative. The relation of the two typologies is illustrated in Table 1.

Participles in Basque can be of all these types. Roughly speaking, *bare participles* correspond to Embick’s eventive participles, although they are not passive in Basque (see section 3.4). As for adjectival participles, -a ending ones are generally resultative, but in the case of some verbs, they can also have stative interpretation. The examples in (16) show that the -a ending participle *ireki-a* ‘open/opened’ is compatible with a verb of creation like *eraiki* ‘build’ (16a), and accepts to be modified by manner adverbs (16b). Therefore, *ireki-a* ‘open, opened’ can be both stative and resultative.

(16) **Stative participle**

a. Ate-a ireki-a eraiki dute.

door-DT ABS open.PTCP-PRED build.PTCP have.3SgERG.3sGABS

‘They have built the door open.’

b. **Resultative participle**

Ate-a kontu handi-z ireki-a dago.

door-DT ABS care big-INSTR open.PTCP-PRED LOC.BE.3SgABS

‘The door is opened carefully.’

This is not the case in all -a ending participles, though. For those participles that have a non-participial stative counterpart (stative predicates ending in -(r)ik), like the synonym of *ireki-a*, *zabaldu-a* ‘opened’, the -a form must be interpreted as resultative.

(17) **Stative interpretation**

a. Ate-a zabal-ik eraiki dute.

door-DT ABS open-RIK build.PTCP have.3PlERG.3sGABS

‘They have built the door open.’

b. ??Ate a zabal-du-a eraiki dute.

door-DT ABS open-PTCP-PRED build.PRT have.3PlERG.3sGABS

Intended: ‘They have built the door open.’

<table>
<thead>
<tr>
<th><strong>Table 1</strong>: Classification of passive participles.</th>
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<tbody>
<tr>
<td><strong>ADJECTIVAL</strong></td>
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<td>Stative</td>
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<tr>
<td>Target state</td>
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<td>open, closed</td>
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</tbody>
</table>
(18)  **Resultative interpretation**

a. *Ate-a kontu handi-z zabal-ik dago.
   door-DET.ABS care big-INST open-RIK LOC.be.3sgABS
   Intended: The door is opened carefully.’

b. Ate-a kontu handi-z zabal-du-a dago.
   door-DET.ABS care big-INST open-PTCP-PRED LOC.be.3sgABS
   ‘The door is opened carefully.’

Both zabal-ik ‘open’ and zabal-du-a ‘opened’ involve the same root: √ZABAL ‘wide, open’. The former, ending in the suffix -(r)ik, is compatible with the verb of creation eraiki ‘build’. The latter, the -a ending participle zabal-du-a ‘opened’, sounds weird in that context. As expected, the former does not accept to be modified by manner prepositional phrases (18a), whereas the latter accepts them naturally (18b). These contrasts indicate that, in this case, the -a ending participle is really a resultative, and not a stative participle.

As for the target state and resultant state difference, in section 3 I will show that -a ending participles can be exponents of both types of participles. There is a clear contrast though: only resultant state participles allow temporal and spatial modification of the event, and the presence of dative and ergative arguments related to the event underlying the participle. Additionally, in section 4 I will argue that we can add a further aspectual type to the four-way distinction of adjectival participles in Basque: those that are interpreted experientially.

3 **Structural composition of Basque adjectival participles**

As explained in section 2.2, all adjectival participles are not the same. They are not interpreted equally and they do not have the same syntactic distribution. Therefore, many authors have claimed that “adjectival participle” is a cover term for predicates involving different syntax and semantics. For instance, those without event implications have been considered to be built on top of an acategorial Root (Embick 2004). In contrast, others may involve, to different degrees, verbal projections like vP, VoiceP (Anagnostopoulou 2003; Alexiadou & Anagnostopoulou 2008; Bruening 2014) and even a perfect Aspectual head (Alexiadou et al. 2014; Alexiadou et al. 2015; see also Sleeman 2011; 2014). These different structural compositions have been tested on the basis of the acceptability of different event-related and subject oriented modifiers, such as manner-denoting adverbs or prepositional phrases, spatial and temporal adverbs and prepositional phrases, and by-phrases.

According to the literature, a language can accommodate all these types of adjectival participles. Greek is an example. Adjectival participles derived from an acategorial Root, vP, VoiceP and AspP have been claimed to exist in Greek (Anagnostopoulou 2003; Alexiadou & Anagnostopoulou 2008; Alexiadou et al. 2014; Alexiadou et al. 2015). Nevertheless, this is not the case for other languages like German, English and Spanish (Gehrke & Marco 2014; Alexiadou et al. 2015), which seem to lack the adjectival participle built on AspP. In this paper, I argue that Basque patterns more with Greek in that it involves an Asp operator that instantiates the event, in the sense of Gehrke (2015). For instance, as I will show in the next subsections, adjectival resultant state participles in Basque are compatible with temporal and spatial modification, subject-oriented modifiers and dative and ergative arguments that are related to the event underlying the participle.

3.1 **Acceptability of event-related and subject-oriented modifiers**

Basque adjectival participles are compatible with event-related and subject-oriented modifiers, a fact that indicates, firstly, that the event is actually grammatically encoded in the structure.
As noted by Kratzer (1994) for German adjectival participles, the compatibility of adjectival phrases with manner-denoting modifiers supports the presence of the verbal phrase below the stativizing Adjectival head. As we can see in Basque, the acceptance of the prepositional phrases arreta-rik gabe ‘sloppily’, lit. ‘without any attention’, and kontu handiz ‘carefully’, lit. ‘with much care’, shows that the events denoted by the participles orraztua ‘combed’ and konpondua ‘fixed’ are grammatically encoded. I take this to be evidence for the projection of v below the Adjectivizing layer.

On the other hand, an aspect that has generated much discussion in the study of adjectival participles deals with the presence of VOICE, the head introducing the external argument (Kratzer 1994; 1996). Kratzer (1994) claimed that adjectival participles are different from verbal ones precisely in the projection of this head: unlike verbal passive participles, adjectival ones are not VoiceP-derived, and thus, an implicit external argument, e.g. an agent, is totally absent from them. Nevertheless, later works questioned this claim, firstly, for Greek (Anagnostopoulou 2003; Alexiadou & Anagnostopoulou 2008), but more recent studies have also argued that VoiceP can be involved in English and German adjectival participles (e.g. Alexiadou et al. 2014; Alexiadou et al. 2015 for German; McIntyre 2013; Bruening 2014 and Alexiadou et al. 2014 for English).

In the literature, the absence of the external argument in adjectival participles has been supported using several diagnostics, such as the inability to control into purpose clauses, and the absence of the disjoint reference effect. Nevertheless, the lack of the disjoint reference effect as a test to prove the absence of an implicit external argument in German (Kratzer 1994) has been called into question in McIntyre (2013), Alexiadou et al. (2014) and Alexiadou et al. (2015). On the other hand, the inability of adjectival passives to control into purpose clauses in German and English has also been counter-evidenced in McIntyre (2013) and Alexiadou et al. (2014).

Leaving aside the tests of control and the disjoint reference effect (which also yield positive results for the presence of VoiceP in Basque), Basque adjectival participles are compatible with modifiers that rely on the presence of an agent, such as the prepositional phrase kontu handiz ‘carefully’, lit. ‘with great care’ (20) and the adverb nahita ‘on purpose’ (21).

(21) Modification with on purpose

a. Ume-a nahita orraz-tu-a dago / da horrela.
child-DET.ABS on.purpose comb-PRTC-PRED (LOC).be.3sgABS like.that
‘The child is combed like that on purpose.’

b. Auto-a nahita konpon-du-a dago/da.
car-DET.ABS on.purpose fix-PTCP-PRED (LOC).be.3sgABS
‘The car is fixed on purpose.’

The projection of Voice is also evidenced by the presence of ergative subjects and instrumental phrases that are related to the event underlying the participle (and its subject).
Marinel memelo bat-ek pote irekigailu bat-ez egin-a dirudi.11

‘sailor idiot DET-ERG can opener DET-INSTR do.PUT-PRED seem.3SGERG

‘It seems done by an idiot sailor with a can opener.’

The idiot sailor and the can opener are participants involved in the underlying event. Particularly, the ergative subject is interpreted as the initiator of the event, a fact which shows that it is introduced in the specifier of VOICEP, below the adj(ectivizing) layer. The instrumental phrase is a subject-oriented manner adverb.

It must be noted that an active VOICE may not be projected in all kinds of adjectival participles. More specifically, as noted in section 2.2, Anagnostopoulou (2003), Alexiadou & Anagnostopoulou (2008), Alexiadou et al. (2015) argued that target state participles do not include the VOICEP projection. In relation to this, Basque data also support the absence of an active VOICEP projection in target state participles: subject-oriented modifiers and ergative subjects are not accepted in combination with the modifier oraindik ‘still’.12

Target state participles

11 Example slightly modified from an original sentence found in Cillero (1998: 152).

12 As noted in the literature, not all types of by-phrases and subject-oriented modifiers are excluded in target state participles in languages like German and Greek (Alexiadou et al. 2014; Alexiadou et al. 2015) (and also Spanish, see “unbounded participles” in Bosque 2014). As an anonymous reviewer notes, by-phrases and subject-oriented modifiers are acceptable in participles modified by still when the verb related to the participle is stative (e.g. surround) or when the situation is coextensive with the action of the agent/causer or instrument. These are called ‘situation-in-progress’ participles in McIntyre (2013; 2015).

(i) Greek (Alexiadou et al. 2014: 21)

a. To stadio ine akomi perikiklomeno apo tin astinomia.
   The stadium is still surrounded by the police
   ‘The stadium is still surrounded by the police.’

b. O skilos ine akomi demenos me skini.
   The dog is still tied with leash
   ‘The dog is still tied with a leash.’

In Basque, we find similar facts: instrumental phrases and in some cases also ergative arguments are acceptable when the verb embedded in the participle is stative or somehow non-dynamic, and they are present in the state denoted by the participle.

(ii) Basque

a. Eraikin-a oraindik dago lau polizia-z / ? lau polizia-k
   building-DET.ABS still four policeman-INSTR / four policeman-ERG
   guard-PTCP-PRED / guard-PTCP-PRED
   ‘The building is still guarded with / by four policemen.’

b. Erregimen-a AEB-k diru-z langun-du-a dago oraindik
   regime-DET.ABS USA-ERG help-PTCP-PRED LOC.be.3SGABS still
   ‘The regime is still financed by the USA.’

The conditions to accept subject-oriented modifiers, apo-phrases (in the case of Greek) or ergative arguments (in the case of Basque) in target state participles in Greek and Basque are the same for all adjectival participles in German (Schlücker 2005; Gehrke 2011; 2013) and Spanish (Gehrke & Marco 2014) (see section 3.4). The acceptability of this kind of modification and arguments in target state participles in Basque needs to be studied further, given that it seems to be a separate phenomenon.
b. Kötxea (*oraindik) nahita konpon-du-a
car-DET.ABS still on.purpose fix-PTCP-PRED
dago (*oraindik).
(LOC).be.3sgABS still
‘The car is (*still) fixed on purpose.’

(24) **Target state participles**
Marinel memelo bat-ek (*oraindik) pote irekigailu bat-ez (*oraindik)
sailor idiot DET-ERG still can opener DET-INSTR still
egin-a dirudi.
do.PTCP-PRED seem.3sgerg
‘It seems done (*still) by an idiot sailor with a can opener.’

The adverb oraindik ‘still’ would be grammatical in the absence of subject-oriented modifers and ergative subjects. Therefore, I conclude that such modifiers and arguments are only acceptable in resultant state participles, and not in target state participles. As will be shown in the next subsection, resultant state participles are also compatible with other event-modifiers like temporal and spatial PPs.

### 3.2 Compatibility with temporal and spatial modification

Another test that is used to explore the structural composition of adjectival participles deals with the temporal and spatial location of the event underlying in the participle. If participles are compatible with temporal and spatial adverbs or prepositional phrases that locate the event at a time and at a place different from those of the state (also denoted by the participle), the event must have been actually instantiated, in terms of Gehrke (2011; 2015). This means that the event denoted by the participle has taken place in the actual world; it is an event token rather than an event kind.

A modifier like recently or a time-frame adverb like three days ago can be used to test the nature of the event underlying the participle. Gehrke (2011: 246) shows that in German adjectival participles, the adverb recently can only modify the state and not the event (25), and that the prepositional phrase three days ago is not acceptable at all (26) (von Stechow 1998; Rapp 1996; 1997).

(25) **German** (Gehrke 2011)
Die Tür war kürzlich geöffnet.
the door was recently opened
‘The door was in the opened state recently, but probably no longer.’
(NOT: the door is in the opened state, the opening took place recently.)

(26) **German** (von Stechow 1998)
a. *Der Computer ist vor drei Tagen repariert.
the computer is before three days repaired
Intended: ‘The computer is repaired three days ago.’

Nevertheless, as an anonymous reviewer notes, the incompatibility of the modifier oraindik ‘still’ with the presence of subject-oriented modifiers can be thought to be semantic, rather than structural, given that still takes scope over a reversible situation, and ergative subjects and subject-oriented modifiers make no sense in such a context (you can reverse the situation of a child’s hair being combed but you cannot reverse the fact that it was done deliberately). The present analysis actually proposes that target state participles involve a syntactically and semantically defective VOICE (expletive non-active VOICE in Alexiadou et al. 2015), as a requirement of the head Aspₐ.
b. Der Computer ist seit drei Tagen repariert.
   the computer is since three days repaired.

As can be seen, only a temporal prepositional phrase that modifies the state, like seit drei Tagen 'since three days ago', is compatible with German adjectival participles, since German does not accept modification of the event underlying the participle that is not relevant to characterize the state (McIntyre 2015). On the contrary, such prepositional phrases are acceptable with Greek adjectival participles ending in -menos (Alexiadou et al. 2014; Alexiadou et al. 2015).

14 According to McIntyre (2015), event temporal modification is possible in German (at least for some speakers) when the temporal modifier contributes to the description of the state expressed by the participle or of the theme during the interval in which the state holds, as in The hotel is built in the seventies and still looks like that. This is formulated as the State Relevance Hypothesis (McIntyre 2015: 2,4). The modifier vor drei Tagen ‘three days ago’ in (26a) is therefore not acceptable because it actually does not provide any information that would characterize the state hold by the computer or the computer itself. I want to thank an anonymous reviewer for bringing this aspect to my attention.
Thus, we conclude that participles denoting non-reversible situations allow more freely locating the event at a time and at a place different from those of the state. According to Gehrke (2015), event instantiation takes place when the verb is embedded under further verbal projections like Asp and T. Given that Basque resultant state participles are compatible with temporal and spatial modification, I propose an analysis where this kind of participles are functionally rich: before the adjectivization takes place, the Root is embedded under vP, VoiceP and AspP, the latter with the meaning of anteriority, as it has been argued for Greek (Alexiadou et al. 2014; Alexiadou et al. 2015).

3.3 Compatibility with dative indirect objects and ergative subjects

Another distributional feature that shows that adjectival resultant state participles denote an instantiated event (rather than an event kind) is that they are compatible with unrestricted dative objects and ergative subjects, just like inflected analytic verbs. Dative is the case usually assigned to indirect objects in Basque, whereas ergative is born by agents, causeurs and external arguments in general.

(31) Target state participle

\[?*\text{Atea} \quad 15:00\text{-} \text{tan} \quad \text{zabal-du-a} \quad \text{dago.}\]

door-Det.ABS 15:00-INE open-PTCP-PRED LOC.be.3sgAB

Intended: ‘The door is opened at 15:00.’

Nevertheless, the presence of these kinds of DP arguments in the adjectival participial configuration is syntactically much more restricted than in common inflected verbs (see Ortiz de Urbina & Uribe-Etxebarria 1991). As a matter of fact, unlike in configurations consisting of a bare participle and an auxiliary (34) (35), the dative and the ergative arguments do not agree with the inflected element (the copula) in the adjectival participial configuration (32) (33). In perfect configurations such as (34) (35), the dative and the ergative must agree with the inflected element (the auxiliary); otherwise the examples are ungrammatical.

(32) Elkarrizketa Maddi-ri egin-a dago/da.

interview.Det.ABS Maddi-DAT do.PTCP-PRED (LOC).be.3sgAB

‘Maddi was interviewed.’ (lit. The interview is done to Maddi.)

(33) Auto-a Gari-k konpon-du-a da.

car-Det.ABS Gari-ERG fix-PTCP-PRED be.3sgABS

‘The car is fixed by Gari.’

Nevertheless, the presence of these kinds of DP arguments in the adjectival participial configuration is syntactically much more restricted than in common inflected verbs (see Ortiz de Urbina & Uribe-Etxebarria 1991). As a matter of fact, unlike in configurations consisting of a bare participle and an auxiliary (34) (35), the dative and the ergative arguments do not agree with the inflected element (the copula) in the adjectival participial configuration (32) (33). In perfect configurations such as (34) (35), the dative and the ergative must agree with the inflected element (the auxiliary); otherwise the examples are ungrammatical.

(34) Elkarrizketa Maddi-ri egin diogu

interview.Det.ABS Maddi-DAT do.PTCP have.3sgAB.3sgDAT.1plERG

/*dugu.

have.3sgAB.1plERG

‘We have interviewed Maddi.’ (lit. We have done the interview to Maddi.)


Gari-ERG car-Det.ABS fix-PTCP have.3sgABS.3sgERG /be.3sgABS

‘Gari has fixed the car.’

\footnote{Crucially, these modifiers do not need to be relevant for the state, thus differ from the event temporal modifiers that are acceptable in German (see footnote \#14).}

\footnote{Dative arguments in adjectival participial configurations are compatible with both the locative (egon) and the non-locative (izan) copulas. The presence of ergative arguments, however, is favored when the copula is the non-locative one.}
Another remarkable property of dative and ergative arguments in adjectival participial configurations is that their position is fixed: they must occur after the absolutive theme and before the participle. If placed in other positions, like before the absolutive theme or after the participle, the result is ungrammatical.\(^\text{17}\)

\[(36) \quad (*\text{Maddi-ri}) \text{ elkarrizketa} \quad \text{(Maddi-ri)} \text{ egin-a} \quad \text{dago/da} \]
\[
\text{Maddi-DAT} \quad \text{interview.DET.ABS} \quad \text{Maddi-DAT} \quad \text{do.PTCP-PRED} \quad (\text{LOC}).\text{be.3sgAB} \]
\[
(*\text{Maddi-ri}). \quad \text{Maddi-DAT} \quad \text{‘Maddi has been interviewed.’} \quad (\text{lit. The interview is done to Maddi.})
\]

\[(37) \quad (*\text{Gari-k}) \text{ auto-a} \quad \text{(Gari-k)} \text{ konpon-du-a} \quad \text{da} \quad (*\text{Gari-k}). \quad \text{Gari-ERG} \quad \text{car-DET.ABS} \quad \text{Gari-ERG} \quad \text{fix-PTCP-PRED} \quad \text{be.3sgABS} \quad \text{Gari-ERG} \quad \text{‘The car is fixed by Gari.’}
\]

This is not the case in perfect analytic clauses. For instance, given that Basque has quite a free word order within clauses, the dative and ergative arguments can occur in a variety of different positions.

\[(38) \quad \text{(Maddi-ri) elkarrizketa} \quad \text{(Maddi-ri) egin diogu} \quad \text{Maddi-DAT} \quad \text{interview-DET.ABS} \quad \text{Maddi-DAT} \quad \text{do.PTCP} \quad \text{have.3sgAB.3sgDAT.1plERG} \quad \text{(Maddi-ri).} \quad \text{Maddi-DAT} \quad \text{‘We have interviewed Maddi.’} \quad (\text{lit. We have done the interview to Maddi.})
\]

\[(39) \quad \text{(Gari-k) auto-a} \quad \text{(Gari-k) konpon-du-du} \quad \text{(Gari-k).} \quad \text{Gari-ERG} \quad \text{car-DET.ABS} \quad \text{Gari-ERG} \quad \text{fix-PTCP} \quad \text{have.3sgABS.3sgERG} \quad \text{Gari-ERG} \quad \text{‘Gari has fixed the car.’}
\]

Following Ortiz de Urbina & Uribe-Etxebarria (1991), I claim that these distributional differences arise because -a ending participles occur in biclausal configurations. The separation into two clause-domains explains the facts. The embedded clause is headed by the tenseless participle, and the matrix consists of the copula that, in turn, takes the participial predicate as complement. As agreement and scrambling in Basque are clause-bound, the arguments belonging to the verb embedded under the adjectival participle stay in the participial domain: the arguments do not move out of it and do not agree with the copula above. The only argument introduced at the matrix clause is the absolutive theme, which necessarily agrees with the copula, as can be seen in the examples above. This is also why it is possible to select an intransitive copula (\textit{egon} or \textit{izan} ‘be’), rather than a transitive one (\textit{eduki} or \textit{*edun} ‘have’), when the verb embedded in the participle is transitive and has an ergative argument. In the perfect analytic configuration consisting of the bare participle, the auxiliary must be transitive (\textit{*edun} ‘have’) if the verb is transitive and occurs with an ergative subject, as in (35).

Contrary to the adjectival participial configuration, the perfect analytic configuration consisting of the bare participle is monoclausal. The inflected element in that configuration

\(^{17}\) As an anonymous reviewer notes, the preverbal position of the dative (and also ergative) arguments illustrated in (32) and (33) can also be related to the focus interpretation of the arguments in question (and not related to their clausal domain). In fact, Basque has preverbal focus position and it is true that the dative in (32) and the ergative in (33) get focus interpretation. Nevertheless, as alternative positions, such as clause-initial or clause-final, are ungrammatical – even in a situation where all the information is new – we cannot consider that being focus is what makes this position mandatory.
is an auxiliary, rather than a copula, and as a consequence, the dative and the ergative argument show free word order and must necessarily agree with the auxiliary.

### 3.4 Lack of restrictions in dative and ergative arguments

Gehrke (2011 and subsequent work) observes that by-phrases in German adjectival participles are possible in two scenarios: first, if they belong to the consequent state (40a) rather than to the underlying event; or second, in the case they are event-related, if they have an impact on the underlying event that is still visible in the consequent state (40b). In the latter, only certain types of by-phrases are accepted. For instance, Gehrke & Marco (2014) observe that the complements of por-phrases in Spanish adjectival participles are generally weak or non-referential nominals such as indefinites, bare nominals and weak and generic nominals and, among other things, they cannot have wide scope, like in (41). According to Gehrke & Marco (2014), the reason for these restrictions is that these kinds of por-phrases modify an event kind, rather than an event token.

(40) **German** (Rapp 1996)
   a. Dar Haus ist von Studenten bewohnt.
      the house is by students in-lived
   b. Die Zeichnung ist von einem Kind angefertigt.
      the drawing is by a child made

(41) **Spanish** (Gehrke & Marco 2014)
   Todos los cuadros estaban pintados por un niño.
   all.MASC.PL the.MASC.PL pictures be(LOC).3pl.IMPR.PST painted by a child
   ‘All the paintings were painted by a child.’ (>1 child possible)
   NOT: ‘There was a particular child that painted all the paintings’

As shown in section 3.3, modification is quite unrestricted in Basque. I have shown that ergative arguments that belong to the event – and that are not necessarily relevant in the consequent state – are accepted in resultant adjectival participial configurations. Furthermore, the nature of the ergative argument (as well as of the dative argument) is unrestricted: we can have strongly referential nominals in this position, such as proper names (32) (33), pronouns, demonstratives and regular definites (42) (43).

(42) **Auto-a** ni-k/ emakume horrek/ gizon-a-k konpon-du-a da.
    car-DET.ABS I-ERG/ woman that.ERG man-DET-ERG fix-PTCP-PRED be.3sgABS
    ‘The car is fixed by me / that woman/ the man.’

(43) **Elkarrizketa** zu-ri /emakume horri/ gizon-a-ri egin-a
    Interview.DET.ABS you-DAT/ woman that.DAT/ man-DET-DAT do.PTCP-PRED
    dago/da.
    (LOC).be.3sgAB
    ‘The interview is done to you / that woman / the man.’

Therefore, Basque differs from German and Spanish in this aspect too, and again patterns more with Greek, which actually accepts apo-phrases with strong nominals, such as proper nouns.

(44) **Greek** (Anagnostopoulou 2003)
   To psari itan tiganismo apo tin Maria
   the fish was fried by the Mary
   ‘The fish was fried by Mary’
As mentioned in section 2.1, it must be noted that Basque adjectival participles are not passive, as their external argument is introduced as a regular ergative DP instead of as a by-phrase.18

The languages that have been mentioned in this paper so far – English, German, Greek and Spanish –, and which have passive adjectival participles, are all nominative. As Basque differs from them in being ergative and in having transitive (no passive) adjectival participles, it is tempting to think that these two properties are somehow related. For instance, the lack of passives may not be restricted to adjectival participles but might be related to the ergative nature cross-linguistically, given that the passive configuration is less common in ergative languages (Kazenin 2001: 926; apud Polinsky 2017). In relation to this, there has been much discussion about the syntactic nature of passivization in ergative configurations (Otsuka 2000), as these processes do not seem to be totally productive, are sometimes carried out by different morphological strategies within the same language or are argued to involve a stativizer morpheme. In particular, Basque seems to lack passives altogether (see in this respect footnote #18). If passivization is not available generally in Basque, it follows that it will not be available in adjectival participles either. This means that the VOICE head in adjectival participles is not necessarily syntactically defective and that the adjectivizing or the Aspectual head involved does not always existentially quantify over the external argument (see section 5). In turn, these two aspects may be related to the fact that external arguments are licensed in their generating position in ergative languages, as it is assumed in the inherent view of the ergative case (Legate 2002; 2008; Massam 2002; Aldridge 2004; Laka 2006; Woolford 2006; and many others). In ergative languages like Basque, external arguments do not need tense in order to be case-valued, contrary to what happens in nominative languages. In adjectival participles of nominative languages, agent arguments must be introduced resorting to by-phrases. Basque simply does not need to do that, as agents can be introduced and licensed as in regular verbal configurations. In any case, the relation between transitive adjectival participles and ergativity is an issue that needs to be studied further.

3.5 Interim conclusion

In previous sections, we have seen that Basque adjectival participles allow event-related modification, as they are compatible with manner prepositional phrases. Furthermore, in the case of resultant state participles, subject oriented adverbs and prepositional phrases, temporal and spatial modifiers, as well as dative and ergative case-marked participants of the event can also be included, with certain syntactic restrictions that make them different from typical dative and ergative arguments introduced in inflected analytic verbs. In particular, dative and ergative DPs belonging to the event underlying the adjectival participle do not agree with the copula (the inflected element), and their position is fixed, i.e. they must remain between the absolutive theme and the adjectival participle. I have argued, following Ortiz de Urbina & Uribe-Etxebarria (1991) that these restrictions are due to the fact that adjectival participles occur in a bi-clausal structure: the inflected element is a copula that takes the participial predicate as its complement. In this way, predicative

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18 Paradoxically, it has often been considered that adjectival participles involving ergative subjects are the nearest to passive constructions that can be found in Basque (Saltarelli 1988; see also Rebuschi 1989). As mentioned in section 2.1, we follow Eguskitza (1981) Ortiz de Urbina & Uribe-Etxeberria (1991) and Artiagoitia (1995) in claiming that these are not passive but biclausal configurations. Actually, Saltarelli (1988: 219) also recognizes that “these sentences seem to have a stative reading, as it is expected given their copular structure”. Other reasons to discard the passive analysis of adjectival participles involving ergative arguments are word order constraints of non-agreeing arguments, the non-agreeing pattern of the dative argument (see section 3.3) and the option of introducing an extra ergative argument as the subject of the copula, something that would be totally unexpected if this was a monoclausal passive configuration (see Ortiz de Urbina & Uribe-Etxebarria 1991 for more details).
configurations involving adjectival participles differ from perfect analytic configurations with bare participles, given that the latter are monoclausal, with the inflected element as an auxiliary, rather than a copula.

Finally, I have also shown that the dative and the ergative DPs can be strongly referential, contrary to what happens with by-phrases in other languages such as German or Spanish.

All this evidence shows that in Basque adjectival resultant state participles, the event underlying is really an instantiated event, rather than an event kind. Gehrke (2011) and following works (Gehrke & Marco 2014; Alexiadou et al. 2014; Alexiadou et al. 2015; Gehrke 2015) claim that adjectival participles in languages like Spanish and German are interpreted as consequent states of event kinds because in these languages, the verb does not get further embedded into verbal projections, but is directly adjectivized after VP (or VoiceP in the case resultant state participles). Gehrke (2015) generalizes to verbs the analysis of nominals (Carlson 1977; Zamparelli 1995; Chierchia 1998; Dayal 2004 among others); both nouns and verbs enter the derivation as predicates of kinds and get instantiated when they are embedded under functional projections; Number in nouns and Aspect or T in verbs. At this level, they obtain the interpretation of entity tokens or event tokens (with spatiotemporal location). In languages like German and Spanish, resultant state participles are not further embedded under Aspect or T (they are directly adjectivized), and as a consequence, the interpretation is of an event kind. This means that the event underlying the participle cannot be temporally or spatially modified – as it lacks spatiotemporal manifestation – and that the acceptable modifiers either describe the consequent state or, otherwise, are interpreted as kind-related; modifiers that create a new subkind of the event by narrowing the event kind, and thus, having an impact on the consequent state.

Aleixadou et al. (2014) and Alexiadou et al. (2015) show that Greek -menos adjectival participles allow non-restricted event-modification and argue that, in Greek, the adjectivization takes place after an Asp(ectual) operator has been projected. Thanks to Asp, the event underlying the participle is instantiated and can be freely modified. Following the same line of analysis, I will claim that in Basque adjectival resultant state participles too, an ASP head is projected before the adjectivizing head (see section 5). Nevertheless, in Basque, Asp must be able also to accommodate the experiential interpretation, given that Basque adjectival participles can also be interpreted experientially under certain circumstances (see section 4).

4 Adjectival participles with other aspectual interpretations

4.1 Not four, but five kinds: Experiential adjectival participles in Basque

In section 3, I showed that -a ending resultant state participles pattern with Greek -menos adjectival participles in that they imply a previous event that is actually instantiated. In that resultative interpretation, the participle is generally derived from a telic predicate and its consequent state holds at the relevant evaluation time. Therefore, it is similar to the Perfect of Result, as portrayed in Comrie (1976), Iatridou, Anagnostopoulou & Izvorski (2001/2003) and other works.

But Basque -a participles are even more flexible than Greek ones (Alexiadou et al. 2014) as they can have, under certain circumstances, an experiential meaning. This specific interpretation can be observed in the examples below, where the participles are built on the predicates ikusi ‘see’ and egon ‘[locative] be’. In the case of the transitive ikusi ‘see’, the absolutive argument cross-referenced in the copula – the theme of predication – is linked to the subject of the transitive verb embedded in the participle, rather than to the object (de Rijk 2008).
The experiential interpretation is generally defined as a reading in which the subject has a certain experience related to the fact that the predicate has held at least once in the interval spreading from sometime in the past until the reference time (Comrie 1976; Iatridou et al. 2001/2003; Pancheva 2003; Mittwoch 2008). It describes an eventuality that more generally occurred at a time before the reference time and that the subject has accumulated some experience as a consequence. Therefore, the experiential interpretation contrasts with the resultative one in that the outcome of the event does not necessarily hold at the relevant evaluation time. It is usually triggered by iterative adverbials like many times or more than once and plural direct objects that yield series of independent eventualities, like pelikula asko ‘many films’ in (45).

The fact that non-verbal participles can have an experiential interpretation was already observed in the diachronic study carried out by Krajewska (2012; 2013a; b), a work that analyses Basque texts written from the 17th to the 20th century. According to her, the experiential interpretation is favored when the situation has held many times and, as a consequence, the subject is considered an experienced person due to what she/he has lived. In both (45) and (46), the subject is ascribed some qualities as a consequence of a past repeated action. Nevertheless, the experiential interpretation is not restricted to this context, as it can also only be obtained when the event is not repeated: in the example in (45) the experiential reading remains even if behin baino gehiagotan ‘more than once’ is replaced by behin bakarrik ‘only once’ or even if the sentence is put in the negative (thus denying the eventualities at stake).

This experiential interpretation of -a participles is generally linked to the presence of cognitive (e.g. learn, realize), perception (e.g. see, hear) and communication (e.g. say) predicates where the eventuality affects the subject, rather than the object or, alternatively, to the presence of stative and unergative verbs (e.g. be, travel), that is, predicates that do not yield a good result state. The examples above involve a perception verb (ikusi ‘see’) and a stative verb (egon ‘locative be’). Furthermore, in (45), the theme of predication is co-indexed with the subject of ikusi ‘see’, rather than with the object. This is a necessary condition for adjectival participles derived from transitive verbs to be interpreted experientially. In fact, the experiential interpretation is restricted to this particular scenario: on the one hand, the event underlying the participle must be of the appropriate type and, on the other, in the case of transitive verbs, the subject of the copula must correspond to the subject of the embedded predicate. If these conditions are not met, the resultative interpretation arises. As an example, it is hard to combine a participle derived from a

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\(^{19}\) I want to thank two anonymous reviewers for bringing this fact to my attention. As iterative adverbials or plural objects are not strictly necessary to obtain an experiential interpretation, examples involving predicates like read Anna Karenina would be fine in experiential adjectival participles in Basque:

(i) Anna Karenina irakurr-i-a naiz.
Anna Karenina.ABS read-PTCP-PRED be.1sgABS
‘I have read Anna Karenina.’ (lit. I am read Anna Karenina)

\(^{20}\) This is reminiscent of the distinction between the Experiential and the Resultative uses of the perfect in English, as portrayed in Mittwoch (2008). In the English perfect, the Resultative is stronger than the Expe-
change of state verb like *hondatu* ‘break’, where the subject of the copula is co-indexed to the object of the embedded verb, with a frequency adverb like *askotan* ‘many times’ that would force an experiential meaning (Mittwoch 2008).

(47) ??Auto-a askotan honda-tu-a dago.
    car-DET.ABS many.times break-PTCP-PRED be(LOC).3sgABS
    Intended: ‘The car is broken many times.’

According to Krajewska (2012; 2013a; b), the resultative reading is highly predominant with change of state verbs, which historically are also the most frequent verbs in this configuration. Even if no change of frequency has been observed in the classes of verbs used during the last centuries, Krajewska notes that the experiential interpretation increases from the 16th to the 20th century; according to her, it starts to appear with a certain frequency in the late 19th century.

Like with resultant state participles, experiential -a participles are compatible with temporal and spatial modification of the event underlying the participle, a fact which shows that experiential participles of this sort also involve an instantiated event.

(48) (Salav 26, apud Krajewska 2013: 36)
    Komeri ederr-a-k ikus-i-a-k gera gazte-denboran.
    comedy great-DET-PL.ABS see-PTCP-PRED-PL be.1plABS youth-time-INE
    ‘We have seen a lot in our youth.’, (We are seen great comedies in our youth.)

(49) a. Herri-ko zinema areto-a-n pelikula asko ikus-i-a
    town-GEN cinema hall-DET-INE film many.ABS see-PTCP-PRED
    naiz.
    be.1sgABS
    ‘I have seen many films in the town cinema hall.’ (lit. I am seen many films (...).)

b. Zoritxarrez, unibertsitate-a-n horrelako asko entzun-a
    unfortunately university-DET-INE like.this many.ABS listen.PTCP-PRED
    nago.
    LOC.be.1sgABS
    ‘Unfortunately, I have heard many things like that in the university.’
    (lit. Unfortunately, I am heard (...).)

The experiential is one of the possible interpretations of the Perfect, as pointed out by Comrie (1976). The fact that -a ending participles can have a particular type of experiential interpretation might suggest that this configuration is really a perfect construction, involving a verbal participle and an auxiliary. Krajewska (2012; 2013a; b) actually claims that this kind of participles are in the middle of a grammaticalization process towards a new perfect. She points out that, in the presence of cognitive, perception and communication predicates, as well as stative and atelic unergatives predicates, the experiential interpretation has become more common in the last centuries. According to her, even though it is still not a full-fledged perfect, given that the frequency of the latter verb classes has not increased in comparison to change of state verbs, these participles are acquiring properties usually attributed to the perfect. Nevertheless, I consider that, at this moment, the
configuration involving the -a participle is semantically and syntactically very different from the perfect. In fact, there are many distributional facts that point in this direction. Firstly, the experiential interpretation is restricted to certain verb classes. Change of state verbs (e.g. *lose*) do not give rise to that interpretation. As a consequence, adding a following clause that reverses the consequent state results in a contradiction (50).

(50)  \[ \text{Telefono-a gal-du-a dago/da,} \]
     \[ \text{phone-Det.ABS lose-PTCP-PRED (LOC).be.1sgABS,} \]
     \[ \#\text{baina aurkitu dugu azkenean.} \]
     \[ \#\text{but we finally found it} \]
     \[ \text{‘The phone is lost, but we finally found it.’} \]

(51)  \[ \text{Telefono-a gal du da, baina aurkitu dugu azkenean.} \]
     \[ \text{phone-Det.ABS lose-PTCP be.1sgABS, but we finally found it} \]
     \[ \text{‘The phone has been lost, but we finally found it.’} \]

In contrast, in the perfect configuration consisting of the bare participle, the experiential reading can be obtained with any verb, and such a continuation is acceptable (51). Secondly, not all the readings of the perfect are available in the -a ending participle. For instance, the universal perfect (or perfect of persistent past, as in Comrie 1976) cannot be obtained. In the perfect consisting of the bare participle, stative verbs can give rise to an interpretation where the state denoted by the predicate started in the past and still holds at the reference time (52) (Iatridou et al. 2001/2003; Pancheva 2003). Such an interpretation is unacceptable in -a ending participles, and as a consequence, since-type modifiers like ablative postpositional phrases with temporal meaning are ungrammatical in that context (53).

(52)  \[ \text{Hemen egon naiz 8:00-etatik.} \]
     \[ \text{here be.PTCP be.1sgABS 8:00-ABL} \]
     \[ \text{‘I have been here since 8 am.’} \]

(53)  \[ \*\text{Hemen egon-a naiz/nago 8:00etatik.} \]
     \[ \text{here be.PTCP-PRED (LOC).be.1sgABS 8:00-ABL} \]
     \[ \text{Intended: ‘I have been here since 8 am.’} \]

Thirdly, as I have shown in section 3, -a ending resultant state participles are compatible with temporal modifiers that locate the event at a time different from that of the consequent state (54). This type of modification is not possible in perfect clauses consisting of the bare participle in Basque (Artiagoitia 1995) (55).²¹

(54)  \[ \text{Pastel-a lehengo ostirale-a-n egin-a da/dago.} \]
     \[ \text{cake-Det.ABS last Friday-Det-INE do.PTCP-PRED (LOC).be.3sgABS} \]
     \[ \text{‘The cake was done last Friday.’} \]

(55)  \[ \*\text{Pastel-a lehengo ostirale-a-n egin dut.} \]
     \[ \text{cake-Det.ABS last Friday-Det-INE do.PTCP have.3sgABS.1sgERG} \]
     \[ \text{Intended: ‘I made the cake last Friday.’} \]

²¹ The grammaticality of (55) is subject to dialectal/idiolectal variation, though. For some Basque speakers, particularly northern but also some southern ones, (55) is grammatical. This may be related to the broader use that the perfect is taking, also in contact Romance languages like Spanish (see Azpiazu 2014 for a recent overview of this phenomenon in European Spanish).
The incompatibility of the perfect with temporal adverbs that locate the event in the past is known as the “present perfect puzzle” (Klein 1992; Pancheva & von Stechow 2004), a feature observed in the perfect configuration in languages such as English and Spanish. Interestingly enough, -a ending participles in Basque – and also in Greek, as pointed out in Alexiadou et al. (2015: 182, footnote # 27) – contrast with participles used in the perfect configuration in allowing this kind of modification.

In the next sections, I will continue dealing with the nature of -a ending participles, focusing mainly on the experiential reading. Particularly, I will discuss the category and the syntactic distribution of experiential -a participles, and I will argue that they are adjectival.

4.2 Are experiential -a participles verbal?

A possible analysis of the experiential -a participle and the resultative -a participle would posit structural and categorial differences between the two classes of participles, considering experientials as verbal participles and resultatives as adjectival. McFadden & Alexiadou (2006; 2010) adopted such an analysis when accounting for the diachronic evolution of the auxiliary alternation in English, i.e. the replacement of have over be in Early English. At that stage of the language, some unaccusatives were still used with be auxiliary, but they started to show alternation, and finally be was totally replaced by have by the end of the 19th century. Apparently both configurations started some time before the history of Old English as resultatives. But, the [have + past participle] configuration, they argue, widened its territory and was finally reanalyzed as a perfect in the intervening centuries; it obtained interpretations associated to the perfect, among others, the experiential. In contrast, the [be + past participle] configuration stayed as a stative resultative, which finally disappeared in favor of the perfect configuration.

McFadden & Alexiadou (2006; 2010) propose a different syntax and semantics for each participial configuration. On the one hand, the [have + past participle] configuration yielding the experiential interpretation is argued to be like the Modern English perfect. The inflected element -have- is an auxiliary which is located at an aspectual Perf(ect) head below T (von Stechow 1998; 1999; Iatridou et al. 2001/2003; Pancheva 2003; Pancheva & von Stechow 2004) and which accommodates all the perfect interpretations. The head Perf, in turn, selects for AspP. They consider that Perf may involve either anteriority semantics, as in Klein’s (1992; 1994) theory, or, alternatively, it may introduce a time span that extends into the past and to which T specifies the ending point (the Extended Now Theory, von Stechow 1999). As they note, the Extended Now Theory would be superior in that it can also yield the universal interpretation of the perfect, unlike Klein’s approach.

(56)
On the other hand, they argue that the \([\textit{be} + \text{past participle}]\) is a copular construction built around a stative resultative participle. The verb is headed by \textsc{asp}_r (Embick 2004, see section 2.2) that, semantically, introduces a state that is the result of an event (particularly, a target state; Parsons 1990). \textsc{aspp} is, in turn, the complement of the copular verb \(-\textit{be}-\), a copula just like those occurring with non-verbal predicates. According to them, this structure lacks the temporal/aspectual material denoting anteriority, as the \textsc{perf} head is not projected.

\[ (57) \]

\begin{verbatim}
TP
  T
    COP
      COP
        \textsc{asp}_r \textit{be}
        \textsc{aspp} \textit{-en}
          VOICE
            v
              Root

(57)
\end{verbatim}

As can be seen, the two structures differ in terms of their clausal configuration and the category of the participle. In the resultative, the participle occurs in a position usually occupied by non-verbal predicates and it is selected by a copula (57). The experiential \textit{have} configuration, in contrast, is monoclausal, as the participle is the complement of a Perfect auxiliary (56). Therefore, the participle is in this case verbal. This is not the position that I am taking in this paper to account for the experiential -\textit{a} participle in Basque. In fact, as I will show in the next section, -\textit{a} experiential participles have a similar syntactic distribution as that of -\textit{a} resultative participles.

4.3 \textbf{Experiential -\textit{a} participles are really adjectival}

Even though they have a different interpretation, -\textit{a} ending experiential participles have a similar syntactic distribution. In predicative position, -\textit{a} ending experiential participles can be combined with the intransitive copulas \textit{izan ‘be’} and \textit{egon ‘[locative] be’}. This is significant especially when the participle is built on a transitive verb (58) (59), given that transitive verbs only combine with transitive auxiliaries (e.g. *\textit{edun ‘have’}) in Basque. Additionally, \textit{egon ‘[locative] be’} is a copula that takes non-verbal predicates as complements; not an auxiliary. These two aspects support the view that -\textit{a} participles, also with experiential interpretation, are non-verbal predicates, and therefore they can occur in constructions involving intransitive copulas.

\[ (58) \]

\begin{verbatim}
Sarritan entzun-a naiz many.times listen.PTCP-PRED be.1sgABS [maitemina gaixo egoteko beste modu bat dela].22 [that being in love is another way of being sick]
‘I have often heard that being in love is another way of being sick.’
(lit. I am often heard that (...).)
\end{verbatim}

\footnote{22 This example is taken from Irigoien (2004: 164).}
Additionally, like resultative -a ending participles, -a ending experiential participles are also grammatical in complement position of adjective-selecting verbs.

On the other hand, if -a ending experiential participles were verbal, and the configuration was a full-fledged perfect, it would be more extended and not so restricted to certain verb classes. Additionally, if it were a perfect, it would also allow the universal interpretation with statives, but this is not possible, as explained in section 4.1. All in all, I argue that we have to consider a fifth type of adjectival participles in Basque (see Table 2): experiential adjectival participles.

The resultative interpretation is predominant in adjectival participles, but as commented in section 2.2, some of them can be interpreted purely statively, without event implications. Furthermore, as shown in this section, when the embedded verb does not yield a good result and/or when the theme of predication is co-indexed with the subject of the embedded transitive verb, the participle is interpreted experientially.

5 Semantic and syntactic analysis of -a ending participles

As shown in previous sections, there are different types of -a ending adjectival participles in Basque: (i) stative participles (participles without event implications), (ii) target state participles (participles that denote a state that is reversible), (iii) resultant state participles (participles that refer to a state that is not reversible), and finally (iv) experiential participles (participles that refer to the experience that the subject has as the consequence of the culmination of (a) prior (repeated) event(s)).

Table 2: Classification of participles in Basque.

<table>
<thead>
<tr>
<th></th>
<th>ADJECTIVAL</th>
<th>VERBAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stative</td>
<td>Resultative</td>
<td>Experiential</td>
</tr>
<tr>
<td>target state</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-a ending (restricted)</td>
<td>-a ending</td>
<td>-a ending (restricted)</td>
</tr>
</tbody>
</table>

This example is taken from Perurena (2004: 309).
I have shown that these classes differ in terms of syntactic distribution as well as semantic interpretation. In this section, I will argue that these different classes of -a ending participles are derived from different syntactic structures. In particular, I consider that two different aspectual heads can be involved in their derivation (Kratzer 2000): a stativizing Asp head \((\text{Asp}_{S/R})\), as in Embick (2004), or a perfect Asp head providing anteriority (Klein 1992; 1994). The choice of one of these aspectual heads and the combination of these heads with complements of different sorts give rise to the typology of adjectival participles mentioned above.

5.1 Stative participles and target state participles

As explained in section 2.2, stative adjectival participles denote states that are not the result of a prior event (Embick 2004). In turn, target state participles refer to states that may or may not be the result of a prior event, and that are reversible. I argue that, in both of them, a stativizing Asp\(_{S/R}\) head has been projected. I follow Kratzer (2000) in considering that \(\text{Asp}_{S/R}\) is a stativizer that retrieves (target) state properties from its complement. These state properties are accessed through a state argument that is present in the complement of the Asp head. This is why the Roots or the verbs that combine with Asp\(_{S/R}\) need to have a stative component. In the case of target state participles with event implications, the predicate must be able to decompose into an eventive and a stative component (Kratzer 2000). In this way, we can account for the fact that target state participles are much more restrictive in terms of the type of verb they can involve than resultant state participles. For instance, participles built on activity verbs like \textit{erosi} ‘buy’ are not compatible with the adverb \textit{oraindik} ‘still’, even though the event conveyed by \textit{erosi} is reversible.

\begin{equation}
\text{Patata-k eros-i-a-k daude (*oraindik).} \\
\text{potato.det-pl.abs buy-pTCP-pRED-pl LOC.be.3plABS still} \\
\text{‘Potatoes are (*still) bought.’}
\end{equation}

I follow Embick (2004) in claiming that the difference between participles denoting an event and those that do not lies in the projection of verbal layers below Asp\(_{S/R}\). As can be seen in (63) and (64), in statives, Asp\(_S\) generally combines with an acategorial root (63), whereas in target state participles, Asp\(_R\) merges to VoiceP which in turn involves vP (64). As shown in section 3, target state participles under the scope of \textit{oraindik} ‘still’ are incompatible with subject-oriented modification or ergative subjects interpreted as initiators of the event underlying the participle. Therefore, I follow Anagnostopoulou (2003), Alexiadou & Anagnostopoulou (2008) and Alexiadou et al. (2015) in claiming that target state participles do not involve a semantically active Voice head.\(^{24}\) Furthermore, given that target state participles are not compatible with temporal or spatial modification, I argue that in target state participles the event is not instantiated before being adjectivized. As a consequence, the event remains in the kind domain and lacks spatiotemporal manifestation. The category changing must take place before the projection of Pred (externalized as the -a ending). It could be thought to be carried out by Asp\(_{S/R}\).

\(^{24}\) Anagnostopoulou (2003), Alexiadou & Anagnostopoulou (2008) and Alexiadou et al. (2015) consider that Voice is altogether absent from target state participles, so that my analysis is slightly different, as I argue that target states involve a Voice head that is syntactically and semantically defective. In relation to this, it is worth noting that in the present analysis target state participles and resultant state participles are not only differentiated on the basis of the presence/absence of a semantically active Voice. Apart from that, these two types of participles differ in the type of aspectual head projected: a stativizer Asp\(_R\) in target state participles and a PERFECT Asp in resultant state participles.
in which case ASP_{S/R} can be also depicted as an ADJ head (Bruening 2014) or a little a (Marantz 2001; 2007; Embick 2010) with that particular semantics.

(63) **Structure of stative participles**

\[
\begin{array}{c}
TP \\
\text{COP} \quad T \\
\text{PREDP} \quad \text{COP} \\
\text{DP} \quad \text{PRED'} \\
\text{AspP} \quad \text{PRED} \\
\text{Root} \quad \text{AspP_{S}} \\
\text{AspP_{R}} \\
\end{array}
\]

(64) **Structure of target state participles**

\[
\begin{array}{c}
TP \\
\text{COP} \quad T \\
\text{PREDP} \quad \text{COP} \\
\text{DP} \quad \text{PRED'} \\
\text{AspP} (\lambda x) \quad \text{PRED} \\
\text{VoiceP} \quad \text{AspP_{R}} \\
\text{vP} \quad \text{Voice}_{(0,0)} \\
\lambda x \quad v' \\
\text{Root} \quad v
\end{array}
\]

ASP_{R} selects for a semantically and syntactically defective VOICE (like the expletive non-active VOICE proposed in Alexiadou et al. 2015) (VOICE_{(0,0)}.). Thus, target state participles can only involve a kind of VOICE that introduces neither implicit nor explicit external arguments and does not accept subject-oriented modifiers that would adjoin to a semantically active VOICE projection. On the other hand, v is responsible for providing event-semantics (the change interpretation) and it also introduces an internal argument of type e, x, to which a lambda abstractor has been adjoined (see Bruening 2014). Following the proposal of adjectival passives and the ADJ head in Bruening (2014), I claim that ASP_{R} attracts the internal argument of vP, a null operator, to its specifier. In this way, the stative property denoted by AspP is predicated of an open individual.\footnote{In Ortiz de Urbina & Uribe-Etxebarria (1991), the co-indexing relationship between the subject of predication (the absolutive theme) and the argument within the verbal phrase is stated in terms of an empty operator that A-bar binds a gap in the argument position.}
In turn, AspP/aP is selected by Pred (a predicational head) (Baker 2003), and above PredP, the copular verb is projected. According to Baker (2003), adjectives need Pred in order to be combined with a specifier (subject) argument. It is a function of type \(<<s,t>,<e,<s,t>>>>\); a function which takes a situation as input and returns a relation between an entity and that situation. Thus, Pred has the function of relating the stative property denoted by AspP (an adjectival projection) with a referent DP. By Functional Application, the DP introduced in [spec, Pred] binds the free variable in AspP, and it is, therefore, interpreted both as the holder of the state introduced by Asp and as the undergoer of the event denoted by vP.

5.2 Resultant state participles and experiential participles

As shown in section 3 and 4, in resultant state participles and experiential participles, the event is instantiated. It can be located at a time and at a place different from the state denoted by the participle. As a consequence, I argue that they involve an aspectual operator, particularly, a head that conveys anteriority (Klein’s 1992; 1994 PERFECT aspect; Kratzer 2000; and see also Alexiadou et al. 2014; Alexiadou et al. 2015 for Greek): basically, it situates the situation time (the running time of the event) before the topic time. It selects a property of an eventuality and returns a property of times that is true of any time that follows the running time of the event.

\[
(66) \quad \text{Asp}_{\text{PERF}} = \lambda P \lambda t \exists e[P(e) \land \tau(e) \leq t]
\]

Unlike the Asp\(_R\) head of target state participles, Asp\(_{\text{PERF}}\) selects for a semantically active VOICE head (VOICE\(_{\{\lambda x,\}\}}\)). As a consequence, this configuration is compatible with subject-oriented modifiers. On the other hand, the external argument introduced by VOICE can be
either explicit or implicit. If \textsc{Voice} is syntactically active (\textsc{Voice}^{(\lambda x, D)}), an argument DP will be introduced in its specifier. If, in contrast, it is syntactically defective (\textsc{Voice}^{(\lambda x, \emptyset)}) no argument will be introduced in specifier position and the \textsc{Asp\_{PERF}} head will existentially quantify over the $\lambda x$ introduced by \textsc{Voice}.

Crucially, in this configuration the projection of \textsc{Asp\_{PERF}} occurs below the adjectival head $a$, meaning that the event is instantiated before being stativized and adjectivized. Thus, temporal and spatial modification of the event is also allowed. As in target state participles, the adjectival phrase (aP) is the complement of the head \textsc{Pred} spelled out by the -$a$ morpheme, and \textsc{PredP} is, in turn, the complement of a copular verb.

\begin{equation}
(67) \quad \text{Structure of experiential and resultant state participles}
\end{equation}

The semantics of this structure can be explained as follows. vP and \textsc{VoiceP} introduce an event or a series of events related to certain arguments, one of them introduced as an open argument (an argument of type e, which could be an internal or an external argument, to which a lambda abstractor has been adjoined) (see Bruening 2014). This null operator will be then forced to move to the specifier of \textsc{Asp\_{PERF}}, as proposed previously for \textsc{Asp}. If it is $v$ the head introducing such argument in its specifier, \textsc{AspP} will be predicated of the internal argument of the verb (68). In contrast, if the open argument is introduced in [spec, \textsc{Voice}^{(\lambda x, D)}] –only possible when \textsc{Voice} is syntactically active– \textsc{Asp} will be predicated of the external argument of the verb (69).\textsuperscript{26}

\textsuperscript{26} Bruening (2014) only considers the null operator for internal arguments of $v$, and not for the specifier of \textsc{Voice}, given that adjectival passives in English are only predicated of vP internal arguments. As in the experiential interpretation of Basque adjectival participles, the participle can be predicated of the external argument, this analysis proposes that \textsc{Asp} can also attract the open argument in the specifier of \textsc{Voice}. 
(68) *Adjectival participles predicated of the internal argument*

\[
TP \\
\underline{\text{COP}} \quad T \\
\underline{\text{PREDP}} \quad \underline{\text{COP}} \\
DP \quad \underline{\text{PRED}'} \\
\text{aP} \quad \underline{\text{PRED}} \\
\underline{\text{ASPP}} \quad a \\
\underline{\text{OP}}(\text{x,y}) \quad \underline{\text{ASPP}}' \\
\underline{\text{VOICEP}} \quad \underline{\text{ASPP}_{PERF}} \\
\underline{\text{VOICE'}} \\
\underline{\text{vP}} \quad \underline{\text{VOICE}_{[\text{x, t}]}} \\
t \quad \underline{v'} \\
\underline{\text{Root}} \quad v
\]

(69) *Adjectival participles predicated of the external argument*

\[
TP \\
\underline{\text{COP}} \quad T \\
\underline{\text{PREDP}} \quad \underline{\text{COP}} \\
DP \quad \underline{\text{PRED}'} \\
\text{aP} \quad \underline{\text{PRED}} \\
\underline{\text{ASPP}} \quad a \\
\underline{\text{OP}}(\text{x,y}) \quad \underline{\text{ASPP}}' \\
\underline{\text{VOICEP}} \quad \underline{\text{ASPP}_{PERF}} \\
\underline{\text{VOICE'}} \\
\underline{\text{vP}} \quad \underline{\text{VOICE}_{[\text{x, d}]}} \\
\underline{\text{DP}} \quad \underline{v'} \\
\underline{\text{Root}} \quad v
\]

**ASP**<sub>PERF</sub> has the function of introducing a time interval and relating it to the running time of the event(s) denoted by **VOICEP**. Particularly, it introduces an interval that follows the running time of the event(s). The adjectivizer, *a*, introduces a property that holds at that
time interval, and finally, PRED relates the property in question with a referent DP (as in target state participles). This DP binds the open argument within AspP by Functional Application. As can be seen, there are, at least, two different arguments – the subject of predication, introduced in the specifier of PRED, and the open argument internal to VOICEP/vP, linked by means of variable binding.

As for the aspectual interpretation, the operator Asp\textsubscript{PERF} accommodates both the result-ant state and the experiential interpretation, given that both denote an interval that comes after the time in which the event holds. I argue that the interpretative difference is determined by the combination of particular vP semantics, the generating position of the open argument and Asp\textsubscript{PERF}. If the vP involves a stative verb (70), or an open argument in [spec, VOICE] (71), the participle will be interpreted as an experiential, as a last resort to make the vP/VOICEP compatible with anteriority semantics and the predicative “stative” nature.

(70)  \textit{Experiential interpretation. Option 1}

\begin{center}
\begin{tikzpicture}
  \node {PREDP}child{node{DP}child{node{PRED'}}child{node{\ldots}child{node{PRED}child{node{\textit{-d}}}}}}child{node{AspP}child{node{\textit{OP}(x)}}child{node{Asp'}child{node{\ldots}}}}child{node{\textit{t}}child{node{vP = \textit{stative}}}child{node{v'}}child{node{\textit{Root}}}child{node{\textit{v}}}};
\end{tikzpicture}
\end{center}

(71)  \textit{Experiential interpretation. Option 2}

\begin{center}
\begin{tikzpicture}
  \node {PREDP}child{node{DP}child{node{PRED'}}child{node{\ldots}child{node{PRED}child{node{\textit{-a}}}}}}child{node{AspP}child{node{\textit{OP}(x)}}child{node{Asp'}child{node{\textit{\ldots}}}}child{node{\textit{t}}child{node{vP = \textit{VOICE}}}child{node{VOICE'}child{node{\textit{\ldots}}}}child{node{\textit{t}}child{node{\textit{tu}}child{node{\textit{Asp\textsubscript{PERF}}}child{node{\textit{-tu}}}}child{node{\textit{vP}}child{node{\textit{VOICE}}}child{node{\textit{\ldots}}}}child{node{\textit{DP}}}child{node{\textit{v'}}child{node{\textit{Root}}}child{node{\textit{v}}}}}};
\end{tikzpicture}
\end{center}
In (71), the vP involves an overt DP in object position, and this argument is different from the subject introduced in the specifier of Pred. The specifier of Pred binds, in this case, the open argument introduced by Voice, the initiator argument and the subject of the transitive embedded verb. Therefore, the property denoted by the adjectival participle is predicated over the subject initiating the (repeated) action, and it is therefore interpreted as an experiential. This would be the structure for the -a ending experiential participle built on the verb *ikusi* ‘see’, as in examples (45), (48) and (59).

In contrast, if the v introduces the open argument and the verb denotes a change of some sort (so that the open argument is interpreted as the undergoer of the change), the projection of Asp<sub>PREF</sub> and Pred will yield a resultant state interpretation, a property predicated about an argument that undergoes a change and which holds at a time that follows the culminated event of change. The argument DP introduced by Pred in its specifier position, in this case, binds the free variable in AspP, which in this case, is interpreted as the undergoer of the change.

\[\text{(72) Resultant state interpretation}\]

![Diagram of resultant state interpretation]

The property denoted by the adjectival participle is predicated about the argument undergoing the change and it is, consequently, interpreted as a resultative. If Voice is syntactically active (\(\text{Voice}_{\lambda x, v}\)), a DP will also be introduced in [spec, Voice], given that ergative initiator arguments can also be found in resultant state participles. Regarding the case assignment of initiator arguments, I will assume that the DP in these cases gets inherent case from Voice. Thus, I follow the line of analysis developed in Massam (2002), Woolford (2006), Legate (2002; 2008), Aldridge (2004) and many others where it is claimed that ergative case is assigned by the head introducing the external argument (Voice or little v; Voice in this analysis).\(^{27}\)

\(^{27}\) As suggested in section 3.4, the fact that Voice can assign inherent case to its specifier may be related to the fact that adjectival participles are transitive in Basque, given that they can be case-valued without the need of tense.
Crucially, the configuration illustrated in (67) (and developed in (68) (69), (70), (71) and (72)) does not give rise to the universal reading, specifically due to the semantics of $\text{ASP}_{\text{PERF}}$. In the universal reading, the predicate holds at a time starting from some point in the past until the relevant evaluation time. This aspectual interpretation is incompatible with the meaning of anteriority contributed by $\text{ASP}_{\text{PERF}}$.

The fact that both possible interpretations – the resultant state reading and the experiential one – arise in a configuration involving the same aspectual head is also supported by the fact that they evolved diachronically at the same time. According to Krajewska (2012; 2013a; b), the rise in the frequency of experientials goes together with the rise of resultatives that allow temporal/spatial modification (called perfect in her works). At some point in the 19th century, the stativizing aspectual head turned into an aspectual operator denoting anteriority. Contrary to $\text{ASP}_{\text{S/R}}$, $\text{ASP}_{\text{PERF}}$ instantiates the event, and it is able to accommodate the experiential interpretation. Nevertheless, the category of the participle remains the same as in target state participles or stative participles: all of them behave like adjectives, as shown in section 2.2 and 4.

6 Conclusion

In this paper, I have shown that there are different types of adjectival participles in Basque: stative, target state participles, resultant state participles and experiential. These types behave differently with respect to their compatibility with different event- and subject-oriented modifiers, as well as with dative and ergative marked arguments related to the event. I have argued that, despite their similar morphological makeup, they have different syntax and semantics. More specifically, I have argued that in stative and target state participles a stativizing $\text{ASP}_{\text{S/R}}$ is involved: a head that retrieves a stative property from its complement. This head differs from the aspectual head projected in resultant state participles and experientials. In the latter participles, an aspectual operator with anteriority semantics is projected ($\text{ASP}_{\text{PERF}}$). It introduces an interval that holds after the running time of the event in its complement, and it provides the event with spatiotemporal manifestation. The combination of these two heads with different types of complements gives rise to the typology of adjectival participles found in Basque.

This classification of adjectival participles in Basque has important implications for the cross-linguistic study of adjectival participles, as it proposes to add a further aspectual interpretation – the experiential one – to the two main interpretations attested previously – stative and resultative.

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28 As an anonymous reviewer notes, one could expect to find the same morphophonology in resultant state and experiential participles, in contrast to stative and target state participles, given that they are built with different Aspectual heads (resultant state participles and experientials with $\text{ASP}_{\text{PERF}}$, and stative and target state participles with $\text{ASP}_{\text{S/R}}$). Nevertheless, in English and Greek (and also to some extent in Basque), statives are differentiated morphophonologically from target state and resultant state participles: e.g. open vs. opened in English (Embick 2004), -tos participles vs. -menos participles in Greek (Anagnostopoulou 2003), -rik predicates vs. -tu-rik/-tu-a participles in Basque (see section 2.2). I consider that the morphophonological difference (and the cross-linguistic generalization) lies in the presence/absence of event-semantics in the participle (with stative participles behaving one way, and with target state/resultant state/experiential participles behaving another way) and not on the particular $\text{ASP}$ head selected.

29 Since both adjectival and verbal participles are active, the structural difference between (resultant states/experiential) adjectival and verbal participles in Basque reduces to two determinant factors: (i) the presence/absence of the adjectivizer, and (ii) the nature of the aspectual head involved. In verbal participles, called bare participles for convenience in this paper, the aspectual head must be able to accommodate also the universal interpretation and allow more freely the experiential one. I will not pursue an analysis of the perfect configuration involving the bare participle at this moment, since it is not necessary for the purpose of this paper.
Abbreviations

ABS = absolutive, DAT = dative, DET = determiner, ERG = ergative, GEN = genitive, IMPRF = imperfective, INDF = indefinite, INE = inessive, INSTR = instrumental, LOC = locative, PART = partitive, PL = plural, pl = plural verbal agreement, PRED = predicational head, PST = past, PTCP = participle, RIK = the rik morpheme, SG = singular, sg = singular verbal agreement

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Competing Interests

The author has no competing interests to declare.

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