

ARTICLE

Split possession and definiteness marking in American Norwegian

Kari Kinn

University of Bergen, Department of Linguistic, Literary and Aesthetic Studies, NO-5020 Bergen, Norway
Email: kari.kinn@uib.no

(Received 29 May 2020; revised 20 June 2021; accepted 23 June 2021; first published online 9 August 2021)

Abstract

This article discusses definiteness marking in two possessive constructions that exhibit special patterns (split possession) for certain kinship nouns in Norwegian. It is shown that the special patterns, whereby the relevant nouns appear without a definite suffix, are retained by the majority speakers of American Norwegian (AmNo); some AmNo speakers use them even more extensively than homeland speakers, and only a minority do not use them. The forms without the suffix are analysed as a reflex of a POSS feature that is a part of the featural make-up of certain kinship nouns (Julien 2005). I argue that the most conspicuous differences in distribution of this feature in the homeland vs. the heritage variety have emerged through a combination of decline in homeland Norwegian and retention and even extension in AmNo. The development in AmNo seems to be systematic and principled; it does not involve “loss” or incompleteness (e.g., Yager et al. 2015; Kupisch & Rothman 2016; Bayram et al. 2019).

Keywords: split possession; definiteness marking; kinship nouns; American Norwegian; heritage languages; syntactic change; possessive constructions

1. Introduction¹

Many languages treat relational nouns differently from other nouns in possessive constructions (*i.a.* Seiler 1981; Chappell & McGregor 1996; Kockelman 2009; Dixon 2010:ch. 16); this has been referred to as *split possession* (Stolz et al. 2008). Recent research has drawn attention to split possession in Norwegian (see Lødrup 2014, 2016; Johannessen et al. 2014); one of the ways in which split possession appears in Norwegian is through interactions with definiteness marking.

This study focuses on two possessive constructions with postnominal possessors, both of which exhibit special patterns for a limited set of kinship nouns in Norwegian. I refer to these constructions as Constructions 1 and 2. Construction 1 involves a noun and a postnominal possessive pronoun; cf. (1):²

- (1) mor mi
mother my
'my mother' (Norwegian; Constr. 1: Noun + Possessive Pronoun)

© The Author(s), 2021. Published by Cambridge University Press on behalf of Nordic Association of Linguistics. This is an Open Access article, distributed under the terms of the Creative Commons Attribution licence (<http://creativecommons.org/licenses/by/4.0/>), which permits unrestricted re-use, distribution, and reproduction in any medium, provided the original work is properly cited.

Construction 1 is paralleled in Icelandic (Sigurðsson 2006:222; Thráinsson 2007:90), in Swedish dialects (Delsing & Egerland 2002; Delsing 2003:31), in Faroese (Thráinsson et al. 2012:123) and in the more distantly related languages Italian (Delsing & Egerland 2002) and Bulgarian (Ascander & Gribanova 2006:133–134).

In Construction 2, the possessor is embedded in a PP, as shown in (2) (for this construction, I am not aware of direct equivalents with special patterns for kinship nouns in other languages):

- (2) *mor til Mari*
mother to Mari
 ‘Mari’s mother’ (Norwegian; Constr. 2: Noun + Possessive PP)

The special property of Constructions 1 and 2 in Norwegian is that certain kinship nouns, such as *mor* ‘mother’ in (1)–(2), can appear in their bare form; all other nouns must appear with a definite suffix (*-en* for masculine nouns, *-a* for feminine nouns and *-et* for neuter nouns).³ The unacceptability of bare nouns that are not kinship nouns in Constructions 1 and 2 in Norwegian is illustrated in (3)–(4):

- (3) a. *sykkel-en min*
bike-DEF my
 ‘my bike’
 b. **sykkel min*
bike my
 (Intended:) ‘my bike’
- (4) a. *sykkel-en til Mari*
bike-DEF to Mari
 ‘Mari’s bike’
 b. **sykkel til Mari*
bike to Mari
 (Intended:) ‘Mari’s bike’

In Construction 2, the prepositions used are either *til* ‘to’, as in (4a), or *åt* ‘to’ (on their geographical distribution, see Torp 1973). A restriction on this construction is that the possessor in the complement of the PP must be a full noun/proper name; it cannot be a simple pronoun (Johannessen et al. 2014:70).⁴ Compare (2), in which the possessor is a proper name, with the unacceptable example in (5), in which the possessor is a pronoun (*henne* ‘her’):

- (5) ***Mor til henne** var professor
mother to her was professor
 (Intended:) ‘Her mother was a professor’

The data presented thus far are from Norwegian as spoken in Norway, henceforth referred to as homeland or European Norwegian (EurNo) (I use the two terms synonymously). The main aim of this study, however, is to investigate split possession and definiteness marking in *American Norwegian* (AmNo). AmNo is a heritage language spoken by the descendants of immigrants who came to North America from Norway in the nineteenth and twentieth centuries (Haugen 1953; Johannessen & Salmons

2015).⁵ Today's speakers of AmNo are second to fifth generation immigrants (typically third or fourth generation). They are bilingual, often having acquired Norwegian at home as young children and English from around school age; as adults, English is their dominant language. Today's speakers of AmNo are predominantly of a mature age, and the language has not been passed on to the next generation.

The study aims to establish the extent to which split possession is retained in AmNo and to analyse the differences between AmNo and the homeland variety. This can enhance our understanding of syntactic change in situations of language contact and reduced input. Moreover, split possession in closely related varieties is an excellent testing ground for hypotheses about the diachrony of lexically restricted syntactic phenomena. Following Julien (2005:191–193), I will analyse the pattern with bare forms as a reflex of a formal feature [POSS] on the N head of certain kinship nouns. To compare the distribution of this feature in the two varieties and analyse the diachronic changes that have taken place, I will apply a recent version of parametric theory (Biberauer & Roberts 2017; Biberauer 2017, 2018; Roberts 2019), which encompasses an explicit and principled account for small-scale parameters.

The study makes use of the Corpus of American Nordic Speech (CANS), the Nordic Dialect Corpus (NDC) and the Norwegian part of the Language Infrastructure made Accessible (LIA) corpus. On the empirical side, it will be shown that overall, bare kinship nouns are more common in AmNo than in EurNo; this is in accordance with brief observations by Anderssen & Westergaard (2012:34–36) and Riksem (2017:17). In both AmNo and EurNo, there is considerable interspeaker variation, but the following main tendencies can be observed: in EurNo, bare kinship nouns are in decline, especially in urban speakers (in and around the capital of Oslo). In AmNo, on the other hand, most speakers have retained this feature, and some have even extended it; only a small minority does not use bare kinship nouns. Decline, which is mainly observed in EurNo, can be attributed to a combination of Feature Economy and mixed input, including input from Danish-influenced urban and formal registers, in which the POSS feature on kinship nouns is not, or very rarely, present. Present-day AmNo speakers are generally exposed to less mixed Norwegian input; I argue that this favours stability, and also paves the way for analogical extension in accordance with the acquisitional bias Input Generalisation (Biberauer & Roberts 2017; Roberts 2019). On a more general level, this work is a case study of how developments in heritage languages can be systematic and principled; it demonstrates that despite reduced input, change does not necessarily involve loss or “incompleteness” (see also e.g. Yager et al. 2015, Kupisch & Rothman 2016 and Bayram et al. 2019).

The article is structured as follows: In Section 2, I discuss in more detail the conditions and use of bare kinship nouns in Constructions 1 and 2 in EurNo. In Section 3, I present the results from AmNo. Section 4 contains discussion and analysis of the findings (Section 4.1 deals with the formal syntax of bare kinship nouns and the distribution of the POSS feature; 4.2 deals with the diachronic developments in EurNo and AmNo). Section 5 concludes the study.

2. Bare kinship nouns in homeland Norwegian

As mentioned in Section 1, certain kinship nouns can appear in their bare form in Constructions 1 and 2 in homeland Norwegian. This does not apply to all kinship

nouns; this section sets out to establish more exactly which nouns can be bare, and the extent to which bare forms are used (there is some variation even with the most common kinship nouns, such as *mor* ‘mother’). As the ideal baseline for comparison with AmNo in this study would be the language of the first emigrants who left Norway in the nineteenth and twentieth century (Larsson & Johannessen 2015:160), I focus particularly on older sources of homeland Norwegian; however, some more recent data have also been included. Section 2.1 describes the data and methodology used; the results are presented in Section 2.2.

2.1 Data and methodology

2.1.1 Sources of data: Language descriptions and corpora

The homeland Norwegian data used in this study are drawn both from previous language descriptions and from speech corpora. Whilst speech corpora provide positive evidence of nouns occurring in their bare form, descriptions in the previous literature can also be a source of negative evidence: the descriptions include implicit or explicit statements about which nouns are *not* acceptable in their bare form in Constructions 1 and 2.⁶ Studies on kinship nouns in possessive constructions are those of Lødrup (2014) and Johannessen et al. (2014). More general works in which the topic is discussed, or at least mentioned briefly, are those of Aasen (1864), Faarlund et al. (1997) and Julien (2005). Aasen’s work dates back to a time around which many of the first emigrants left Norway, and it describes colloquial dialects spoken across the country. This makes it particularly relevant in the context of the present study, which aims to investigate diachronic developments that have potentially happened over several generations, starting with the first emigrants. In addition to Aasen (1864), some dialect studies focussing on specific geographical areas have been consulted, namely Venås (1977) on the Hallingdal dialect and Dagsgard (2006) on the dialect of Lom and Skjåk. Hallingdal, Lom and Skjåk are located in the interior of South-East Norway, an area from which many of the ancestors of today’s speakers left; dialect features from this area have a particularly prominent place in AmNo as spoken today, even among speakers whose ancestors originally came from other areas (Johannessen & Laake 2012a; Hjelde 2012, 2015). The dialect descriptions are well suited for the present purposes also because they focus on older speakers or previous generations (i.e. people born around 1900).

Corpus data are taken from the Norwegian part of the Nordic Dialect Corpus (NDC) (Johannessen et al. 2009), version 3.⁷ For reasons of scope and in an attempt to approximate the language of the first emigrants, only speakers aged 50 or older were included (*age group B* in the corpus metadata). With this modification, the sample consists of 1,408,879 word tokens from 355 speakers. In addition to NDC, I have consulted the Norwegian part of the Linguistic Infrastructure made Accessible (LIA) corpus, a digitised collection of older dialect recordings, version 1. LIA (version 1) consists of 1,511,245 word tokens from speakers in 132 places in Norway; some of these speakers were born as early as the 1860s and 1870s. The LIA corpus is well suited to provide a more complete picture of the range of kinship nouns that can be bare in older homeland Norwegian dialects. However, the overviews of how often bare nouns are used (see section 2.2) are based on NDC. The NDC data were mostly collected with methods similar

to those used for the Corpus of American Nordic Speech (CANS) (see Section 3.1); this facilitates quantitative comparison.

2.1.2 Corpus data: Key definitions and extraction principles

For the purposes of this paper, the term *bare noun*, or *bare form*, simply refers to a (singular) noun that does not have a definite suffix. In Constructions 1 and 2, the definite suffix is generally required even in the presence of a prenominal determiner, as is shown in (6) ((6a) is a psychologically distal demonstrative in the sense of Johannessen 2008):⁸

- (6) a. jeg ville ikke akkurat vekke **hun venninn-en** min
I wanted not exactly wake she friend-DEF my
 'I didn't want to exactly wake up my friend' (from Johannessen 2008:164)⁹
- b. **den** ville **apekatt-en** min
the wild monkey-DEF my
 'my wild monkey'

It is only (certain) kinship nouns that may occur with a prenominal determiner, but without the suffix (see (7)):

- (7) **den** ville **søster** **mi**
the wild sister my
 'my wild sister' (from Julien 2005:192)

In cases like (7), the kinship noun is counted as bare, on a par with cases in which no prenominal determiner is present (there are not many examples of this type in the data set, though).¹⁰

Cases in which two bare kinship nouns are coordinated have been excluded; the lack of definiteness marking in this context may arise for independent reasons (see Heycock & Zamparelli 2003). For Construction 2, I excluded kinship nouns in predicate position; predicate nouns followed by *til/åt* 'to' can also lack definiteness marking independently of kinship denotation.¹¹

Finally, when analysing the extracted examples, I relied on the phonetic transcriptions in NDC/LIA. I also had access to the sound recordings, and I have listened to many of the examples. Some cases were not entirely clear; for example, the difference between a word-final /e/ and /a/, which distinguishes definite and indefinite weak feminines in several dialects, can be difficult to hear. In cases of doubt, I adhered to the transcribers' decisions. A consistent revision of all the transcriptions would not be feasible; moreover, following the available transcriptions facilitates replicability.

For a more detailed description of the queries underlying the quantitative results in Sections 2.2.2 and 3.2.2, see footnote 16. I now turn to the results from homeland Norwegian.

2.2 Results

2.2.1 Kinship nouns occurring in their bare form

An overview of the nouns attested in their bare form in Constructions 1 and 2 in EurNo, either in the corpora used for this study or in the previous literature, is given in Table 1.¹² Note that compounds headed by these nouns can also be bare; thus, the

Table 1. Kinship nouns attested in their bare form in Constructions 1 and 2 in the EurNo data set

Construction 1	Construction 2
mor 'mother'	mor 'mother'
far 'father'	far 'father'
søster 'sister'	søster 'sister'
bror 'brother'	bror 'brother'
datter 'daughter'	datter 'daughter'
sønn 'son'	sønn 'son'
mann 'husband'	mann 'husband'
moster 'aunt on mother's side'	
faster 'aunt on father's side'	
tante 'aunt'	
onkel 'uncle'	
familie 'family'	
foreldre 'parents'	
fetter 'male cousin'	

fact that *mor* 'mother' is listed implies that a compound such as *bestemor* 'grandmother' can also occur without definiteness marking. The noun *foreldre* 'parents' has been included in its plural form even though this study generally deals with bare singulars.

Some examples of bare kinship nouns in Construction 1 from NDC are given in (8).¹³

- (8) a. **bestefar** **din** sydde konfirmasjonsdressen min
grandfather your sewed confirmation.suit.DEF my
 'Your grandfather sewed my confirmation suit' (brandbu_ma_01)
- b. **bror** **min** eide garden
brother my owned farm.DEF
 'My brother owned the farm' (alvdal_04gk)
- c. for **mor** **di** hun er jo oppvokst her
for mother your she is MOD.PART grown.up here
 'because your mother grew up here' (ballangen_03gm)
- d. ja og e og jeg kommer i hug første venda jeg så på
yes and eh and I come in mind første time.DEF I looked on
 fjernsyn og det var **onkel** **min** # som hadde hatt råd til det vet
TV and it was uncle my that had had funds to it know
 du
you
 'Yes and eh I remember the first time I watched TV, and it was my uncle who could afford it, you know' (vinje_04gk)

Some examples of bare kinship nouns in Construction 2 from NDC are given in (9):

- (9) a. **datter** **åt** **presten** var lærerinne
daughter to priest.DEF was teacher
 ‘The priest’s daughter was a teacher’ (aal_ma_01)
- b. og **far** **til** **venninna** mi jobba jo på Namnå
and father to friend.DEF my worked MOD.PART at Namnå
 ‘and my friend’s father worked at Namnå’ (kirkenaer_08gk)

As is evident from Table 1, the kinship nouns occurring in their bare form are generally common kinship nouns denoting relatively close family relations (an exception is *fetter* ‘male cousin’, which is attested once in Construction 1 in the LIA corpus). As Table 1 is an aggregate of many different sources, it is worth pointing out that there is considerable variation with regard to how the rules for split possession and definiteness marking are described in the literature, and also inter-individual variation (more on this in Section 2.2.2). Aasen (1864:313) writes that *Fader* ‘father’, *Moder* ‘mother’, *Broder* ‘brother’, *Syster* ‘sister’, *Son* ‘son’, *Dotter* ‘daughter’ and, added in parentheses, “flere lignende” ‘some/several similar [nouns]’, are regularly used in their bare form in Construction 1.¹⁴ It is not clear exactly which other nouns Aasen is referring to, but he seems to be treating bare forms as a restricted phenomenon occurring in a closed, though somewhat variable, class of nouns. Faarlund et al. (1997:143) state that nouns ending in *-r* can appear in the bare form with a postposed possessive in Construction 1 (this does not cover, e.g., *mann* ‘husband’, *onkel* ‘uncle’ and *tante* ‘aunt’ in Table 1). Lødrup (2014:41), with a reference to Julien (2005:192), observes that Constructions 1 and 2 with bare forms only exist with “a small number of singular core consanguineal kinship nouns and their compounds” (this does not cover *mann* ‘husband’, and not necessarily *tante* ‘aunt’ and *onkel* ‘uncle’). Dagsgard (2006:31–33, my translation), describing the dialect of Lom and Skjåk, writes that “[...] kinship terms such as *mother*, *father*, *daughter*, *son*, *sister* and *brother*” appear without any suffix in Construction 1.¹⁵ Moreover, Dagsgard (2006:33) notes that *mann* ‘husband’ is treated on a par with *far* ‘father’, *mor* ‘mother’ etc., whereas *kjerring* ‘wife’ is not.

In general, the corpus data suggest that some speakers employ a wider range of bare nouns than what is indicated in the literature. For example, *onkel* ‘uncle’ and *tante* ‘aunt’ are not mentioned in the literature, as far as I am aware. The range of bare nouns in homeland Norwegian still appears to be narrower than what is found in Icelandic. Icelandic allows, e.g., *mamma* ‘mum’ and *pabbi* ‘dad’ to be bare (Sigurðsson 2006:218), while the Norwegian equivalents *mamma* and *pappa* are not acceptable; Icelandic also allows other relational nouns, such as *vinur* ‘friend’ (Sigurðsson 2006:222) and body part nouns (Thráinsson 2007:94, n. 6). However, the range of bare nouns in Icelandic is not quite a superset of the nouns attested in EurNo. For example, (Sigurðsson 2006:222) notes that the noun *maður* ‘man, husband’ takes the definite suffix in Icelandic; recall that the cognate *mann* can be bare in EurNo.

I now turn to the variation between bare nouns and nouns with a definite suffix in Constructions 1 and 2.

2.2.2 Use of bare nouns vs. nouns with a suffix

Although the kinship nouns listed in Table 1 are all attested in their bare form in Constructions 1 and 2, there is also a competing pattern whereby the definite suffix is used, even for the most common nouns. Thus, there is variation as illustrated in (10)–(11):

(10) Variation in Construction 1

- a. far min
father my
 'my father'
- b. far-en min
far-DEF my
 'my father'

(11) Variation in Construction 2

- a. far til Mari
father to Mari
 'Mari's father'
- b. far-en til Mari
far-DEF to Mari
 'Mari's father'

Table 2 shows the overall proportion of bare nouns in Constructions 1 and 2 with some central kinship nouns in NDC.^{16, 17} *Sønn* 'son' is not included, as it would be difficult to obtain reliable figures for this noun: it ends in an /n/; thus, it is hard to assess whether the definite suffix, which is also /n/ in these phonological environments, is present or not.

As is evident from Table 2, *mor* 'mother', *far* 'father' and *bror* 'brother' are used in their bare form rather frequently, with some variation between the different lexical items and constructions (these nouns are all monosyllabic; I return to this in Section 4.1.2). For *søster* 'sister' and *datter* 'daughter', the picture is more mixed (bare nouns are used in 50% of the cases or less), and for *onkel* 'uncle' and *tante* 'aunt', bare forms are quite rare (I only found one single example of each). Note that Construction 1 is, overall, much more common than Construction 2; the figures for Construction 2 should be read with caution because of the low number of tokens.

As mentioned, there is inter-speaker variation with regard to whether bare forms are used at all, and if so, with which nouns. Julien (2005:191, n. 35) states (in a discussion of Construction 1) that older speakers from rural areas seem to use more bare nouns. She adds the reservation that she has not investigated this question systematically herself. In order to provide a more detailed empirical account of the difference between rural and urban areas, I queried the NoTa corpus, containing recordings of speakers in the Oslo area, and the results lend support to Julien's observation. The query was limited to speakers over 50 years old (a total of 49 speakers), in order to distinguish the effect of urban vs. rural backgrounds from the effect of age. As is evident from Table 3, the NoTa speakers use bare nouns only to a very limited extent; there are some examples with *far* 'father' and one example with *mor* 'mor' (all uttered by two individuals), but none with other kinship terms (for discussion of the effect of age, I refer to Section 4.2.1).

Table 2. Proportions of bare nouns vs. nouns with a definite suffix, NDC, age > 50

	Construction 1	Construction 2
mor 'mother'	73.6% (92/125)	80.0% (4/5)
far 'father'	74.3% (136/183)	69.3% (9/13)
bror 'brother'	82.2% (83/101)	66.7% (4/6)
søster 'sister'	44.3% (31/70)	25.0% (2/8)
datter 'daughter'	44.7% (17/38)	50.0% (5/10)
tante 'aunt'	9.1% (1/11)	0% (0/1)
onkel 'uncle'	6.25% (1/16)	0% (0/1)
Total	66.7% (363/544)	54.5% (24/44)

Table 3. Proportions of bare nouns vs. nouns with a definite suffix, NoTa Oslo, age > 50

	Construction 1	Construction 2
mor 'mother'	3.4% (1/29)	0% (0/3)
far 'father'	23.4% (11/47)	0% (0/4)
bror 'brother'	0% (0/17)	–
søster 'sister'	0% (0/16)	0% (0/1)
datter 'daughter'	0% (0/26)	0% (0/4)
tante 'aunt'	0% (0/1)	–
onkel 'uncle'	0% (0/1)	–
Total	8.8% (12/137)	0% (0/12)

To get a clearer picture of the variation among the older speakers in NDC (i.e., the speakers represented in Table 2), both on the inter- and intra-speaker level, the results from a selection of individual speakers are presented in Table 4. The selection criterion was that the speakers produce a total of at least 6 relevant kinship nouns (the nouns included in Table 2) in Construction 1.

With the caveat that there is only a limited amount of data per speaker, Table 4 suggests that most speakers are relatively consistent in their treatment of individual nouns. The proportions of bare nouns are, with only a few exceptions, either very high (mostly 100%) or very low (0%), even when an individual noun is used several times by the same speaker (this is particularly clear in the case of *far* 'father'). There is also considerable consistency within individual speakers across different nouns; e.g., flaa_04gk, heroeyN_03gm, hyllestad_04gk and maalselv_ma_01 always use bare nouns, while fredrikstad_04gk, lommedalen_03gm and lommedalen_04gk do not use bare nouns at all. The speakers etne_ma_03 and oppdal_04gk consistently use bare nouns with *mor* 'mother' and *far* 'father', but not with *søster* 'sister'; maalselv_ma_05 and oppdal_02 use bare nouns consistently with all nouns except

Table 4. Proportions of bare nouns; results for individual speakers in Construction 1, NDC, speakers aged > 50 that produce ≥ 6 relevant kinship nouns

	mor	far	bror	søster	datter	tante	onkel	Tokens
bjugn_15	0% (0/3)	100% (3/3)	–	–	–	–	–	6
botnhamn_03	100% (1/1)	67% (2/3)	–	–	100% (2/2)	–	–	6
etne_ma_03	100% (1/1)	100% (6/6)	–	0% (0/2)	–	–	–	9
flaa_04gk	–	100% (3/3)	100% (1/1)	100% (1/1)	100% (1/1)	–	–	6
fredrikstad_04gk	0% (0/2)	0% (0/4)	–	–	0% (0/2)	–	–	8
fusa_03gm	100% (2/2)	100% (3/3)	100% (1/1)	–	–	–	–	6
fusa_04gk	100% (1/1)	67% (2/3)	–	50% (1/2)	0% (0/1)	–	–	7
hammerfest_04gk	–	0% (0/1)	–	0% (0/2)	0% (0/1)	0% (0/2)	–	6
heroeyN_03gm	100% (3/3)	100% (4/4)	–	–	–	–	–	7
heroeyN_04gk	0% (0/2)	0% (0/2)	–	0% (0/2)	–	–	–	6
hyllestad_04gk	100% (1/1)	100% (4/4)	100% (1/1)	–	–	–	–	6
kirkenes_03gm	80% (4/5)	100% (1/1)	–	–	–	–	–	6
kvaefjord_04gk	33% (1/3)	100% (7/7)	–	–	–	–	–	10
lommedalen_03gm	–	0% (0/3)	0% (0/1)	–	0% (0/1)	–	0% (0/1)	6
lommedalen_04gk	0% (0/8)	0% (0/7)	–	0% (0/2)	–	0% (0/1)	–	18
maalselv_ma_01	–	–	100% (3/3)	100% (1/1)	100% (2/2)	–	–	6
maalselv_ma_05	100% (1/1)	100% (2/2)	100% (2/2)	–	–	–	0% (0/1)	6
oppdal_02	100% (1/1)	100% (2/2)	100% (2/2)	100% (1/1)	100% (1/1)	–	0% (0/1)	8
oppdal_04gk	100% (1/1)	100% (1/1)	100% (1/1)	50% (2/4)	–	–	–	7
stonglandseidet_47	0% (0/1)	100% (5/5)	100% (1/1)	–	–	–	–	7
vardoe_ma_01	100% (1/1)	0% (0/1)	100% (2/2)	0% (0/2)	–	–	–	6
Tokens	37	65	15	19	11	3	3	153

with *onkel* ‘uncle’. These individual patterns align with the general patterns in Table 2, whereby *mor* ‘mother’ and *far* ‘father’ occur in their bare form at much higher rates than *søster* ‘sister’ and *onkel* ‘uncle’. The individual results from e.g. *bjugn_15*, *kvaefjord_04gk* and *stonglandseidet_47*, on the other hand, do not align as directly with the overall results.

I now turn to bare kinship nouns in AmNo.

3. Bare kinship nouns in American Norwegian

3.1 Data and methodology

The AmNo data used in this study are predominantly drawn from the Norwegian part of CANS, version 2 (Johannessen 2015). This corpus consists of recorded spontaneous speech (interviews and conversations); most of the data were collected using the same methods that were used for NDC (see Section 2.1). In order to make the sample as representative as possible of AmNo as spoken today, only data collected from 2010 onwards were included (version 3 of the corpus contains some older recordings of AmNo heritage speakers, but a systematic investigation of this intermediate stage is beyond the scope of the present study). In total, the sample from CANS consists of 615,454 word tokens from 152 speakers. The corpus searches were conducted in the same way as described for EurNo in Section 2.1. In addition to the data from CANS, speech data from 28 speakers collected on a field trip in 2016 were included. These data consist of interviews, elicitation based on pictures and a storytelling task based on the picture book *Journey* by Aaron Becker (2013).

A methodological issue in AmNo concerns the pronunciation of unstressed /a/. Lykke (2020:52) observes a tendency towards a more central articulation of unstressed vowels in AmNo, which could potentially give rise to a phonetic merger of unstressed /a/ with /e/, implying syncretism between the bare form and the definite singular of weak, feminine nouns such as *kone* ‘wife’ and *tante* ‘aunt’ (in the most relevant homeland dialects, the definite singular of these nouns would be *kon-a* and *tant-a*). To get an overview of how widespread the central articulation of /a/ is in my data set, and which speakers show this tendency, I queried CANS for the phonetic transcription of all nouns in the *definite plural*, as this combination of features also has an exponent /a/ in homeland Norwegian, particularly in neuter nouns (e.g., *barn-a* ‘the children’). The definite plural is a good test case because the *indefinite plural* mostly has a null exponent (*barn-Ø* ‘children’); this means that if the realisation of the definite suffix is central (more like /e/ than /a/), there are no other obvious explanations than phonetic merger. I found the central articulation (transcribed as *e*) in 12.1% of the cases (36/297; irrelevant and mistagged hits were excluded). To control for this in the investigation of which nouns occur in their bare form in AmNo, I left out bare forms that were exclusively used by AmNo speakers who exhibited a tendency towards pronouncing /a/ as /e/ in the independent query for indefinite plurals (this applied to the noun *kone* in Construction 2).

Note that the definite suffix is generally stable in AmNo (e.g. Anderssen et al. 2018). Thus, if a kinship noun unexpectedly appears in its bare form, it should not be immediately dismissed as an indication of breakdown of definiteness marking or English influence on possessive constructions (see further discussion in 3.3).

Table 5. Kinship nouns attested in their bare form in Constructions 1 and 2 in the AmNo data set. In italics: nouns not attested in their bare form in the EurNo data set

Construction 1	Construction 2
mor 'mother'	mor 'mother'
far 'father'	far 'father'
søster 'sister'	søster 'sister'
bror 'brother'	bror 'brother'
datter 'daughter'	datter 'daughter'
sønn 'son'	sønn 'son'
onkel 'uncle'	mann 'husband'
mann 'husband'	<i>kar 'husband'</i>
familie 'family'	<i>familie 'family'</i>
foreldre 'parents'	<i>kusine '(female) cousin'</i>
<i>kusine '(female) cousin'</i>	<i>onkel 'uncle'</i>
<i>skyldfolk 'kin'</i>	<i>tremening 'second cousin'</i>
<i>kone 'wife'</i>	<i>barn 'child'</i>
<i>jente 'girlfriend'</i>	
<i>kjerring 'wife'</i>	
<i>barn 'child'</i>	
<i>nephew</i>	
<i>auntie</i>	

3.2 Results

3.2.1 Kinship nouns occurring in their bare form

Table 5 provides an overview of the kinship nouns attested in their bare form in Constructions 1 and 2 in the AmNo data set.¹⁸

As can be seen in Table 5, bare forms are attested with more kinship nouns in the AmNo data from CANS than in the EurNo data set (bare forms that were only found in AmNo are marked with italics).¹⁹ The token frequencies for kinship nouns are high in CANS; higher than in NDC (for illustration, compare Table 6 in Section 3.2.2 to Table 2 in Section 2.2.2).²⁰ However, this can hardly be the full explanation for the difference between AmNo and EurNo: keep in mind that the AmNo data set is considerably smaller than the EurNo data set (which consists of speech data from both NDC and LIA), and that the AmNo corpus data were not supplemented by descriptions from the previous literature.

Bare kinship nouns in AmNo to a greater extent denote more distant relations and are less-common nouns; they are not just core kinship terms. Relatedly, the AmNo data set includes more of the kinship terms that Dahl & Koptjevskaja-Tamm (2001:202) refer to as “improper”, i.e., nouns that have an additional, non-kinship reading which is at least as salient as the kinship one. AmNo

Table 6. Proportions of bare nouns vs. nouns with a definite suffix, CANS

	Construction 1	Construction 2
mor 'mother'	86.5% (250/289)	88.9% (16/18)
far 'father'	89.7% (382/426)	100% (29/29)
bror 'brother'	90.0% (135/150)	80% (8/10)
søster 'sister'	64.1% (50/78)	83.3% (10/12)
datter 'daughter'	66.7% (38/57)	100% (1/1)
tante 'aunt'	0% (0/7)	-
auntie	100% (5/5)	-
onkel 'uncle'	55.3% (21/38)	100% (2/2)
Total	83.9% (881/1050)	91.7% (66/72)

includes, e.g., *kar*, which can mean both 'husband' and 'man', and *barn* which can mean 'first generation descendant' or 'person that has not reached puberty'.

Some examples from Construction 1 are given in (12); (12a) and (12b) are also attested in the EurNo data set, whereas (12c) and (12d) are not.

- (12) a. men e **far min** var e # arbeidde med stein # var mason
but eh father my was eh worked with stone # was mason
 'But my father worked with stone, was a mason' (harmony_MN_01gk, CANS)
- b. **søster hans** var fire år
sister his was four years
 'His sister was four years old' (sunburg_MN_03gm, CANS)
- c. den e ene som spilte # på dragspill her var **søskenbarn min**
the eh one who played on accordion here was cousin my
 'One of the ones who played the accordion here was my cousin'
 (sunburg_MN_10gm, CANS)
- d. ...i Lillehammer # **skyldfolk mitt** var der
...in Lillehammer kin my was there
 '...in Lillehammer – my kin was there' (billings_MT_01gm, CANS)

Examples from Construction 2 are given in (13); the kinship nouns in (13a) and (13b) are attested in their bare form in the EurNo sample, too, whereas the nouns in (13c) and (13d) are not.²¹

- (13) a. jeg kommer hug når **bror åt mel- bestemor** kom og e og
I come mind when brother to grandma came and eh and
 og v- var med oss
and was with us
 'I remember when grandma's brother came and spent time with us'
 (wanamingo_MN_04gk, CANS)

- b. **bestefar til mor mi** # på farssida han var # kom i
grandpa to mother my on father's.side.DEF he was came in
 attenåtteogsytti ja
 1878 yes
 'My mother's grandfather on her father's side he was, came in 1878, yes'
 (fargo_ND_01gm, CANS)
- c. **tremenning til kona** var i sykehjem
second.cousin to wife.DEF was in nursing.home
 'My wife's second cousin was in a nursing home'
 (fargo_ND_10gm)
- d. det var hos e # **kusine til han NN**
it was by eh cousin to he [name of informant]
 'It was at NN's cousin's place' (harmony_MN_02gk, CANS)

In AmNo, more affinal kinship terms (as opposed to consanguineal ones) are used in their bare form. Notably, some AmNo speakers use bare nouns for female spouses (*kone* 'wife', *jente* 'girlfriend' and *kjerring* 'wife' in Construction 1; *jente* 'girlfriend' in Construction 2). This is not attested in the EurNo data set, and for *kjerring*, Dagsgard (2006:33) explicitly says it does not occur (see Section 2.2). Some AmNo examples with female spouses are given in (14):²²

- (14) a. **kjerring hans** var ikke mer
wife his was not more
 'His wife had passed.' (westby_WI_07gk)
- b. og **kone mi** hun # teacha skolen for # to og tretti år
and wife my she taught school.DEF for two and thirty years
 hun
she
 'And my wife was a teacher for 32 years' (portland_ND_01gm, CANS)
- c. han driver og prater med **jente hass**
he does and talks with girl his
 'He is talking to his girl' (fargo_ND_10gm)

A further point of interest is that bare forms are occasionally found with loan words. This is shown in (15):²³

- (15) a. **nephew min** hadde men han hadde mye # trouble
nephew my had but he had much trouble
 'My nephew had, but he had much trouble' (portland_ND_02gk, CANS)
- b. ... var gift med **auntie mi** # var gift med søstera åt
... was married with auntie my was married with sister.DEF to
 mor
mother
 '... was married to my auntie – was married to my mother's sister'
 (westby_WI_01gm, CANS)

Riksem (2017, 2018) demonstrates that AmNo speakers mostly use the Norwegian definite suffix in a homeland-like manner even with English nouns; thus, language mixing in itself is not a convincing explanation for the absence of the suffix in (15).²⁴ The examples in (15) may be interpreted as a sign of productivity of the pattern with bare kinship nouns. I return to the implications of this in Section 4.2.1.

The nouns *moster* ‘aunt on mother’s side’ and *faster* ‘aunt on father’s side’, which, according to Faarlund et al. (1997:143) can be bare in EurNo (see Section 2.2), do not seem to be used in AmNo at all; there are no data for these nouns. There are only two (Norwegian-origin) nouns attested in both AmNo and EurNo which are only found in their bare form in the EurNo data set. One is *fetter* ‘male cousin’, which is attested once in Construction 1 in EurNo. In AmNo, this noun is used by two speakers, but not in the relevant constructions. The other noun is *tante* ‘aunt’. This is attested in its bare form in Construction 1 in EurNo, but only with definiteness marking in AmNo.²⁵ However, a part of the picture here is that some AmNo speakers say *auntie* instead of *tante*.

In addition to the range of kinship nouns attested in their bare form, another special pattern in AmNo can be noted: the restriction on Construction 2, whereby the possessor has to be a noun (not a pronoun), seems to be less categorical than in EurNo. Occasionally, AmNo speakers use Construction 2 with a pronoun as the complement of the possessive PP, as shown in (16):

- (16) første mann t- til til meg # døde # e i nittenenogtitti
first man to to me died eh in 1991
 ‘My first husband died in 1991’ (saskatoon_SK_07gk, CANS)

More research is required to establish the extensiveness this pattern; the contexts are rare and, as an anonymous reviewer points out, factors such as stress and deixis may complicate the picture.

Data show a larger set of bare kinship nouns in AmNo than in the regional EurNo varieties from which the ancestors of the present-day speakers emigrated. Further discussion and analysis of this variation and diachronic change follows in Section 4. I now turn to variation between bare nouns and the competing pattern with a definite suffix in Constructions 1 and 2.

3.2.2 Use of bare nouns vs. nouns with a definite suffix

The proportion of bare nouns in Constructions 1 and 2 for some common kinship nouns in AmNo is given in Table 6. The data are extracted from CANS using the same queries as for the EurNo data in Section 2.2.2; see footnote 16 for details.

Comparing the results from AmNo to the results from EurNo (cf. Table 2), the overall impression is that bare nouns occur at higher proportions in AmNo. In Construction 1, this applies to all nouns with the exception of *tante* ‘aunt’ (to which I return shortly). I ran a two-tailed equality of proportions test in R (R Core Team 2020) for each individual noun; for *mor*, ‘mother’, *far* ‘father’, *søster* ‘sister’ and *onkel* ‘uncle’, the difference between AmNo and EurNo was statistically significant

($p < .05$), meaning that AmNo overall uses more bare kinship nouns than EurNo. For the nouns *bror* 'brother' and *datter* 'daughter', the difference is not statistically significant ($p = .1079$ for *bror* and $.05629$ for *datter*). The noun *tante* 'aunt' stands out in that it is not attested in its bare form in AmNo, whereas in EurNo, it is. As mentioned in Section 3.2.1, some speakers use the English loanword *auntie* instead, and I have included this too in the table.

In Construction 2, bare nouns are also more used in AmNo than in EurNo on an overall level; note that for *far* 'father', the use is consistent. I refrain from drawing any conclusions about the quantitative differences between individual nouns because the construction itself is so infrequent, but comparing the total numbers for Construction 2 (66/72 in AmNo vs. 24/44 in EurNo), bare nouns are significantly more common in AmNo ($p < .05$).

In order to get a better understanding of the inter- and intra-speaker variation found among the heritage speakers, I present results from individual speakers in Construction 1 in Tables 7–10. All speakers that produce at least 6 relevant kinship nouns in Construction 1 are included. The four tables represent speakers with different behaviours: consistent use of bare nouns in Table 7 (36 speakers); consistently or almost consistently bare nouns with the core kinship terms *mor* 'mother', *far* 'father' and *bror* 'brother' and more variable patterns with other nouns in Table 8 (20 speakers); speakers with mixed and less systematic patterns in Table 9 (8 speakers); speakers who never use bare nouns in Table 10 (5 speakers). As the tables are based on free, spontaneous speech, there is the caveat that all the relevant nouns are not produced by all speakers. It is possible that, e.g., some speakers in Table 7 would end up in Table 8 if they had used a larger range of kinship terms in the interviews/conversations, but there is no way of testing that based on the available data.

Like in EurNo, most speakers are relatively consistent in their treatment of individual nouns. This is particularly clear in Table 7, but also in Tables 8 and 10. Note that some speakers use certain nouns (notably *mor* 'mother' and *far* 'father') very frequently, e.g., *coon_valley_WI_06gm* (Table 7), *saskatoon_SK_03gk* (Table 7), *sunburg_MN_15gm* (Table 7) and *fargo_ND_01gm* (Table 8), but without any variation.

Like in EurNo, there is also a high degree of consistency across different nouns. This applies without exceptions to the speakers in Tables 7 (who always use bare nouns) and 10 (who never use bare nouns). The speakers in Table 8 exhibit somewhat more variation, but most of them follow a pattern whereby at least *mor* 'mother', *far* 'father' and *bror* 'brother' are used in their bare form, whereas one or more of the other nouns are used with the definite article in some or all cases. This type of pattern aligns with the general results presented in Table 6, in which *mor* 'mother', *far* 'father' and *bror* 'brother' occur in their bare forms at higher rates than other kinship nouns.

Some of the speakers represented in Tables 7 and 8 are also among the speakers that use bare forms not attested in the EurNo sample (see Section 3.2.1). This applies to *sunburg_MN_10_gm*, *billings_MT_01gm* and *portland_ND_01gm*, and it corroborates the notion of a relatively systematic use of bare forms across different nouns (the remaining speakers cited in Section 3.2.1 are not represented in Tables 7–10 because they produce fewer than 6 relevant kinship nouns in CANS).

Table 7. Proportions of bare nouns; results for individual speakers in Construction 1, CANS, speakers that use bare nouns consistently

	mor	far	bror	søster	datter	tante	auntie	onkel	Tokens
albert_lea_MN_01gk	100% (2/2)	100% (4/4)	-	-	-	-	-	-	6
billings_MT_01gm	-	100% (2/2)	100% (4/4)	-	-	-	-	-	6
blair_WI_04gk	100% (3/3)	100% (4/4)	100% (3/3)	-	-	-	-	-	10
blair_WI_12gm	100% (1/1)	100% (4/4)	100% (2/2)	-	-	-	-	-	7
coon_valley_WI_02gm	-	100% (5/5)	100% (1/1)	-	-	-	-	-	6
coon_valley_WI_03gm	100% (3/3)	-	100% (2/2)	-	-	-	-	100% (1/1)	6
coon_valley_WI_06gm	100% (12/12)	100% (12/12)	100% (12/12)	-	100% (4/4)	-	-	-	40
coon_valley_WI_08gm	100% (6/6)	100% (2/2)	100% (1/1)	100% (1/1)	100% (2/2)	-	-	-	12
fargo_ND_03gm	100% (4/4)	100% (4/4)	-	-	-	-	-	-	8
gary_MN_01gm	100% (4/4)	100% (4/4)	100% (2/2)	-	-	-	-	100% (1/1)	11
glasgow_MT_01gm	-	100% (6/6)	-	-	-	-	-	-	6
harmony_MN_04gm	100% (3/3)	100% (7/7)	-	100% (1/1)	100% (3/3)	-	-	-	14
hatton_ND_01gm	100% (3/3)	100% (4/4)	100% (3/3)	100% (1/1)	-	-	-	-	11
hatton_ND_03gm	100% (3/3)	100% (8/8)	-	100% (1/1)	100% (1/1)	-	-	-	13
hatton_ND_04gk	100% (6/6)	100% (3/3)	-	100% (1/1)	-	-	-	-	10
hixton_WI_01gm	100% (2/2)	100% (2/2)	100% (3/3)	-	100% (2/2)	-	-	-	9
mabel_MN_01gk	100% (5/5)	100% (7/7)	-	-	-	-	-	-	12
mabel_MN_02gk	100% (5/5)	100% (7/7)	-	-	100% (1/1)	-	-	-	13
sacred_heart_MN_01gk	100% (2/2)	100% (9/9)	100% (1/1)	-	-	-	-	-	12

(Continued)

Table 7. (Continued)

	mor	far	bror	søster	datter	tante	auntie	onkel	Tokens
saskatoon_SK_01gk	100% (3/3)	100% (4/4)	–	100% (1/1)	100% (2/2)	–	–	–	10
saskatoon_SK_03gk	100% (8/8)	100% (21/21)	100% (1/1)	100% (8/8)	100% (1/1)	–	–	100% (2/2)	41
saskatoon_SK_14gk	100% (2/2)	100% (3/3)	–	100% (1/1)	100% (1/1)	–	–	–	7
spring_grove_MN_01gm	100% (1/1)	100% (1/1)	100% (4/4)	–	–	–	–	–	6
spring_grove_MN_07gm	100% (2/2)	100% (6/6)	100% (5/5)	–	–	–	–	–	13
sunburg_MN_01gm	100% (2/2)	100% (4/4)	–	–	100% (1/1)	–	–	–	7
sunburg_MN_03gm	100% (5/5)	–	–	100% (2/2)	–	–	–	–	7
sunburg_MN_09gm	100% (3/3)	100% (1/1)	–	–	100% (2/2)	–	–	–	6
sunburg_MN_11gk	100% (2/2)	100% (5/5)	–	–	100% (2/2)	–	–	–	9
sunburg_MN_12gk	100% (4/4)	100% (7/7)	–	–	100% (2/2)	–	–	–	13
sunburg_MN_15gm	100% (11/11)	100% (11/11)	100% (4/4)	100% (9/9)	–	–	–	–	35
westby_WI_01gm	100% (11/11)	100% (7/7)	100% (7/7)	100% (1/1)	100% (1/1)	–	100% (1/1)	–	28
westby_WI_03gk	100% (6/6)	100% (3/3)	100% (3/3)	100% (2/2)	100% (1/1)	–	–	100% (1/1)	16
westby_WI_05gm	100% (2/2)	100% (4/4)	100% (3/3)	100% (1/1)	–	–	–	–	11
westby_WI_11gm	100% (1/1)	100% (4/4)	100% (5/5)	–	–	–	–	100% (2/2)	12
westby_WI_12gm	100% (1/1)	100% (5/5)	–	–	–	–	–	–	6
williston_ND_01gm	100% (2/2)	100% (4/4)	100% (1/1)	–	–	–	–	–	7
Tokens	130	184	67	30	26	0	1	7	445

Table 8. Proportions of bare nouns; results for individual speakers in Construction 1, CANS, speakers that use bare nouns consistently or almost consistently at least with *mor* ‘mother’, *far* ‘father’ and *bror* ‘brother’

	mor	far	bror	søster	datter	tante	auntie	onkel	Tokens
blair_WI_01gm	100% (5/5)	100% (2/2)	–	–	67% (2/3)	0% (0/2)	–	–	12
coon_valley_WI_01gk	–	100% (4/4)	–	–	–	0% (0/2)	–	100% (1/1)	7
fargo_ND_01gm	100% (9/9)	100% (31/31)	100% (11/11)	–	100% (1/1)	–	–	67% (4/6)	58
gary_MN_02gk	100% (1/1)	100% (3/3)	100% (1/1)	–	0% (0/1)	–	–	–	6
osseo_WI_05gm	100% (2/2)	100% (4/4)	–	–	100% (1/1)	–	–	0% (0/1)	8
outlook_SK_09gm	–	100% (5/5)	100% (1/1)	100% (1/1)	–	–	–	0% (0/1)	8
portland_ND_01gm	100% (6/6)	94% (15/16)	100% (1/1)	0% (0/2)	0% (0/2)	–	–	0% (0/1)	28
rushford_MN_01gm	100% (1/1)	100% (3/3)	75% (3/4)	100% (2/2)	–	–	–	–	10
saskatoon_SK_02gm	100% (3/3)	100% (3/3)	100% (2/2)	0% (0/1)	–	–	–	–	9
spokane_WA_06gk	100% (1/1)	100% (4/4)	100% (1/1)	50% (1/2)	–	–	–	100% (1/1)	9
stillwater_MN_01gm	100% (8/8)	100% (11/11)	80% (4/5)	100% (1/1)	0% (0/1)	0% (0/1)	–	–	27
sunburg_MN_02gk	100% (9/9)	100% (5/5)	–	0% (0/2)	–	–	–	–	16
sunburg_MN_04gk	100% (1/1)	100% (3/3)	100% (1/1)	–	–	0% (0/2)	–	–	7
sunburg_MN_05gk	100% (6/6)	100% (6/6)	100% (2/2)	100% (5/5)	100% (1/1)	–	100% (1/1)	0% (0/2)	23
sunburg_MN_07gm	100% (7/7)	100% (4/4)	–	–	100% (2/2)	–	100% (2/2)	50% (1/2)	17
sunburg_MN_10gm	100% (2/2)	100% (1/1)	100% (5/5)	–	0% (0/1)	–	–	–	9
sunburg_MN_17gm	100% (2/2)	100% (3/3)	–	100% (1/1)	–	–	100% (1/1)	0% (0/1)	8
ulen_MN_03gm	86% (6/7)	100% (9/9)	100% (1/1)	–	–	–	–	–	17
westby_WI_06gm	100% (3/3)	100% (4/4)	100% (3/3)	0% (0/1)	–	–	–	100% (1/1)	12
zumbrota_MN_02gm	–	100% (4/4)	100% (1/1)	0% (0/1)	–	–	–	–	6
Tokens	73	125	39	19	13	7	4	17	297

Table 9. Proportions of bare nouns; results for individual speakers in Construction 1, CANS, speakers with mixed patterns

	mor	far	bror	søster	datter	tante	auntie	onkel	Tokens
chicago_IL_01gk	100% (2/2)	67% (2/3)	–	–	0% (0/1)	–	–	–	6
coon_valley_WI_12gm	100% (3/3)	100% (4/4)	50% (1/2)	50% (1/2)	–	–	–	–	11
coon_valley_WI_14gm	60% (3/5)	100% (4/4)	25% (1/4)	–	0% (0/1)	–	–	–	14
saskatoon_SK_11gk	100% (2/2)	60% (3/5)	100% (2/2)	–	–	–	–	100% (3/3)	12
sunburg_MN_18gk	100% (2/2)	67% (2/3)	–	50% (1/2)	–	–	–	–	7
wanamingo_MN_04gk	100% (2/2)	100% (1/1)	67% (2/3)	0% (0/3)	0% (0/1)	–	–	–	10
wanamingo_MN_08gm	0% (0/4)	50% (1/2)	–	–	100% (1/1)	–	–	–	7
willmar_MN_01gm	67% (2/3)	25% (1/4)	100% (1/1)	–	0% (0/1)	–	–	0% (0/1)	10
Tokens	23	26	12	7	5	4	–	–	77

Table 10. Proportions of bare nouns; results for individual speakers in Construction 1, CANS, speakers that do not use bare nouns

	mor	far	bror	søster	datter	tante	auntie	onkel	Tokens
fargo_ND_05gk	0% (0/2)	0% (0/3)	0% (0/1)	0% (0/2)	–	–	–	–	8
madison_MN_02gm	0% (0/4)	0% (0/7)	0% (0/1)	0% (0/2)	–	–	–	–	14
minneapolis_MN_01uk	0% (0/6)	0% (0/1)	–	–	0% (0/4)	–	–	–	11
spokane_WA_03gk	0% (0/3)	0% (0/5)	–	0% (0/1)	–	–	–	–	9
spokane_WA_05gm	0% (0/10)	0% (0/11)	0% (0/1)	–	–	–	–	–	22
Tokens	25	27	3	5	4	0	0	0	64

The speakers that use the loanword *auntie* without any definite suffix are also represented in Tables 7 and 8; three of them actually use the definite suffix with *onkel* ‘uncle’ in some or all cases, but they are consistent in using bare forms with all other attested nouns.

The speakers in Table 9, who exhibit mixed patterns with respect to the use of bare nouns, are relatively few (8 speakers), and I will not attempt to explain the variation in these cases. The speakers in Table 10, on the other hand, who do not use bare nouns at all (5 speakers), call for some further discussion, both because their linguistic behaviour is so different from the other speakers, and because they have a considerable impact on the overall results (they produce many of the examples of kinship nouns with a definite suffix).

If one considers the available corpus metadata given for each of the speakers represented in Table 10, it becomes clear that most of them have a background that stands out compared with other speakers in CANS. Typically, the speakers in the corpus are third or fourth generation immigrants whose ancestors left from rural parts of Norway; the speakers are of a mature age and do not have much experience with formal or urban varieties of Norwegian (Hjelde 2012, 2015; Johannessen & Laake 2012b, 2015; Johannessen 2018). The speaker *fargo_ND_05gk*, however, who is represented in Table 10, has taken Norwegian classes (in addition to learning the language from early childhood); although the exact nature of these classes is not clear from the corpus metadata, one can assume that it would involve exposure to formal and written language, in which bare forms are not used. The speaker *minneapolis_MN_01gk* is exceptionally young (born in 1975), and her mother came from an urban area in Norway (the city of Tønsberg, west of the Oslo fjord). The speaker *spokane_WA_05gm* also has ties to urban Norway; his mother came from Oslo, and he has lived in Bergen for two years. The speaker *spokane_WA_03gk*, too, has connections to Oslo through her mother; moreover, she lived in Oslo for many years during her childhood and adolescence. In an interview, this speaker explicitly expresses that she feels different from many of the other AmNo speakers, who are older than her (she was born in 1959), and whose ties to Norway go several generations back: “[They] have thoughts from the 1800s, Norway in the 1800s [. . .] It is hard to feel a connection to that because I know modern Norway” (my translation). The general picture is that the speakers who do not use bare nouns at all seem to have acquired Norwegian in a context that involves exposure to relatively recent urban or formal varieties of the language. Since some of these speakers produce many kinship nouns, we can expect them to influence the overall results in Table 6. Notably, for the noun *datter* ‘daughter’, the proportion of bare nouns rises to 67.9% (38/53), which is significantly different from that in EurNo ($p = .0187$), if we exclude these speakers from the sample. In other words, taking inter-speaker variation in AmNo into account, it is possible to single out speakers that do not use bare nouns at all, but also groups of speakers that use bare nouns even more widely than what is evident from the overall results.

3.3 Intermediate summary and discussion

In this section, I have presented data suggesting that on an overall level, bare kinship nouns in Constructions 1 and 2 are more common in AmNo than in EurNo. It was

Table 11. Nouns in Construction 1 in CANS; both kinship nouns and non-kinship nouns, randomised sample

	Bare noun	Def. suffix	Total
Kinship noun	310 (76.2%)	97 (23.8%)	407 (100%)
Non-kinship noun	4 (3.4%)	112 (96.6%)	116 (100%)
Total	314 (60.0%)	209 (40.0%)	523 (100%)

shown that a larger range of kinship nouns is attested in their bare form in the data set from AmNo than in the data from EurNo; in AmNo, less common and more peripheral kinship nouns are found in their bare form to a greater extent. In both AmNo and EurNo, there is variation between bare nouns and nouns with a definite suffix in the two constructions. There is a general tendency for bare nouns to occur at higher proportions in AmNo, although the difference does not reach statistical significance for all individual nouns.

There is substantial inter-speaker variation in both varieties; in AmNo, the speakers can be divided into subgroups that i) use bare forms consistently; i.e. at even higher rates than what the general figures for the individual nouns would suggest; ii) speakers that use bare forms consistently or almost consistently at least with *mor* ‘mother’, *far* ‘father’ and *bror* ‘brother’, iii) speakers with mixed patterns (less systematic variation than group ii), and iv) speakers that do not use bare nouns at all. The two last subgroups have the fewest members, and several of the speakers that do not use bare kinship nouns at all have had considerable exposure to urban and formal varieties of Norwegian.

Note that the preference for bare forms observed in many speakers of AmNo does not extend beyond kinship nouns. In general, the definite suffix is not in decline. This has been demonstrated by Anderssen et al. (2018) and van Baal (2018, 2020) for other syntactic constructions, and a randomised sample of nouns (including both kinship and non-kinship nouns) in Construction 1 in CANS shows the same result; cf. Table 11.²⁶

Table 11 suggests that bare forms of non-kinship nouns are very unusual (3.4%), and upon scrutiny, most of the apparently bare forms seem to have an independent, phonological explanation. For example, two of the nouns are masculines ending in /n/ (*auksjon* ‘auction’ and *hund* /hʉn/ ‘dog’). The definite suffix *-en* would be phonologically reduced to /n/ in these environments, and although the textbook pronunciation of a word such as *hunden* would be disyllabic [hʉn.nʉ], this is not always clear in spontaneous speech.²⁷ Thus, it is clear that the differences between AmNo and EurNo in Constructions 1 and 2 reflect systematic differences in how kinship nouns are treated in grammar.

4. Discussion and analysis

In this section, I discuss and analyse the empirical findings presented in Sections 2 and 3, both from a synchronic and a diachronic perspective. The section has the following structure: In 4.1, I discuss the syntactic derivation of Constructions 1

and 2, and the formal analysis of variation between speakers that use bare kinship nouns and speakers that do not. In 4.2, I discuss the diachronic developments that have taken place in AmNo and EurNo.

4.1 Syntactic analysis

4.1.1 Derivation of Constructions 1 and 2

Recall that nouns in Constructions 1 and 2 generally require a definite suffix, both in EurNo and AmNo; it is only (certain) kinship nouns that can appear in their bare form. A formal analysis of the two constructions should offer an explicit account of why (certain) kinship nouns can appear without definiteness marking. I adopt a proposal from Julien (2005:191–193), whose core idea can be summarised as follows: the relevant kinship nouns differ from other nouns in being inherently relational at the level of their featural make-up. The relevant feature is a possessor feature ([POSS]) located in N. The basic structure of the DP, including the POSS feature of the relevant kinship nouns, is illustrated in (17) (based on Julien 2002, 2005):²⁸

(17) $[_{DP} [_{nP} [_{NumP} [_{NP} [_{N} [POSS]]]]]]]$

Most of the labels used in (17) should be self-explanatory, with the exception of *nP*; *nP* is the functional projection in which the suffixed definite article is generated (Julien 2005:4). *n* is merged with unvalued features only; it probes down for ϕ -features and (in the case of definite nominals) a definiteness feature. In simple nominals without adjectival modification, *nP* as a whole raises to Spec-DP to identify D (in Scandinavian, the DP layer must generally be overtly realised, or “identified”; see Julien 2005:ch. 1 for further discussion).

The derivation of Construction 1 with a non-kinship noun proceeds as shown in (18) (this is a simplified version of the derivation proposed in Julien 2005:162–163; for expository reasons, only the structure up to *nP* is included):²⁹

(18) $[_{nP} [_{n} \text{ bil-en } [_{\mu\text{POSS}}]] [_{NumP} [_{Num} \text{ b}^{\text{H}}]] [_{NP} [_{\text{I}POSS}] \text{ min } [_{N} \text{ b}^{\text{H}}]]]]]]$

\uparrow ↑
 bil-en min
car-DEF my
 ‘my car’

The possessive pronoun *min*, which has a valued POSS feature, is merged in Spec-NP. The noun raises past the possessor to *n*; this yields the postnominal position of the possessive pronoun (Julien 2005:143). In possessive constructions, *n* has an unvalued POSS feature. *n* probes and Agrees with the possessive pronoun; this Agreement relation is spelled out by the suffix *-en*. This suffix is identical to the definite article; on Julien’s analysis (2005:145), [POSS] is “in reality a definiteness feature”, an idea which finds support in parallelisms in the behaviour of definite and possessed nominals: for example, possessed nominals trigger the definiteness effect in existentials/impersonal passives, even when the possessor is prenominal and there is no definite marker present (Julien 2005:200) (see also Julien 2005:145–147, 199ff and Vangsnes

Under this view, the presence of [POSS] on some Ns is a parametric specification. For a more detailed account of [POSS] on N as a parametric specification, I adopt a recent version of parametric theory that explicitly deals with, and offers predictions about, parameters that are small-scale in the sense that they apply to a small class of heads; see Biberauer (2017, 2018), Biberauer & Roberts (2017), and Roberts (2019) (note that this notion of parameter differs in some ways from the “hard-wired” parameters that were proposed in the 1980s (Chomsky 1981), and takes into account all three factors of language design in the sense of Chomsky (2005); for further details, I refer to Biberauer and Roberts’s works, henceforth B&R).

B&R propose a hierarchy of parameter types ordered by the size of the class of items that they apply to. Small-scale parameters are micro or nano parameters (the higher part of the hierarchy is constituted by meso and macro parameters, which apply to larger classes of heads and thus have wider-ranging effects across the grammatical system; the general order of head and complement in harmonic head-initial or head-final languages are examples of macro parameters). Nano parameters apply to just one, or sometimes a handful of lexical items, and the items are unpredictable (they are idiosyncratic and do not form a natural class) (Roberts 2019:85). Micro parameters apply to a restricted, natural-class subset of heads (Biberauer 2017:51; Biberauer & Roberts 2017:150); the subset can be small, but it is more predictable than for a nano-parameter.

For some speakers of EurNo, [POSS] on N might instantiate a nano parameter. E.g., among the urban speakers (Table 3), there is one speaker who only exhibits [POSS] on N on the single lexical item *far* ‘far’. For other speakers, e.g., some of the older, rural speakers (Tables 2 and 4), [POSS] on N is a micro parameter applying to a natural-class subset, e.g., nouns denoting members of the nuclear family (‘mother’, ‘father’, ‘sister’, ‘brother’ etc.). I showed that a recurring pattern in Construction 1 is that *mor* ‘mother’, *far* ‘father’ and *bror* ‘brother’ are treated on a par and occur in their bare form (Section 2.2.2). These three nouns do not seem to form a natural semantic class, as *bror* ‘brother’ is included, but not *søster* ‘sister’, but one can still argue for a micro parameter on the assumption that phonological features can define the scope of parameters (Biberauer 2018:101), as the three nouns stand out compared to other kinship nouns in being monosyllabic.³¹

In AmNo, *mor* ‘mother’, *far* ‘father’ and *bror* ‘brother’ also seem to group together in Construction 1, although at proportions that are generally somewhat higher than in EurNo: *mor* ‘mother’, *far* ‘far’ and *bror* ‘bror’ are used in their bare form at proportions between 86.6% and 90% (cf. Table 6) (between 73.6% and 82.2% in EurNo (NDC), cf. Table 2). However, the gap between these nouns and *søster* ‘sister’ is not as great in AmNo as in EurNo; in AmNo, *søster* ‘sister’ occurs in its bare form at a proportion of 64.1% (44.3% in EurNo (NDC)). Many speakers employ a larger set of bare kinship nouns, including *søster* ‘sister’, and also *datter* ‘daughter’ and other nouns, and for these speakers it seems clear that we are dealing with a micro parameter, with some individual variations. The range of bare kinship nouns for which there is evidence in AmNo (see Tables 5 and 7) seems to suggest that at least some speakers treat all kinship nouns (including male and female spouses) on a par; this is a larger class than what was observed in the EurNo data set. At the same time, there is a minority of AmNo speakers who do not use bare nouns, or who show mixed patterns (Tables 9 and 10). For the speakers

who do not use bare nouns, [POSS] on N is not a parametric specification; for the speakers with mixed patterns, the parametric status is unclear.

B&R's approach predicts that micro and nano parameters are diachronically relatively unstable. As they are not robustly attested across the grammatical system, they are more prone to change than macro and meso parameters (see in particular Biberauer & Roberts 2017). Diachronic instability is indeed what we observe in the morphosyntax of possessive constructions with kinship nouns (or else, there would not be any clear differences between AmNo and EurNo or speaker groups within each speech community). Changes can in principle go in two directions; expanding or reducing the class of items expressing the parametric specification. Both developments can, in the framework of B&R, be related to different acquisitional biases: Reducing the scope of a parametric specification would be motivated by *Feature Economy*, which is a preference for postulating as few formal features as possible to account for the linguistic input (similar economy principles have also been proposed by Roberts & Roussou 2003 and van Gelderen 2011). Expanding the scope can be motivated by *Input Generalisation*, which is a tendency to maximise already postulated features; in other words, once a formal feature is postulated, a child will try to apply it as widely as possible in the relevant domain; the effect of this is analogical extensions (Biberauer 2017; see also Roberts 2007). Which development wins out in which scenario is a complex question which is on the research agenda, and which I cannot address in any depth here, but [POSS] on N is a good case study for applying the model. In the next sections, I discuss which of the two varieties of Norwegian was the locus of change (arguing that it was in fact both), and which factors contributed to this development (in particular the decline of [POSS] on N in EurNo and the expansion that seems to have taken place in some speakers of AmNo).

4.2 Diachronic developments

4.2.1 Innovation vs. archaism

I have argued for systematic differences concerning the treatment of kinship nouns in AmNo versus the homeland variety EurNo. Data suggest that for the EurNo speakers that employ bare kinship nouns (in formal terms, [POSS] on N), the bare forms reflect a nano or micro parameter. For most AmNo speakers, it is a micro parameter, sometimes with a larger scope than what is common in EurNo (see tables 7 and 8). There is some interesting inter-speaker variation (see in particular Table 10), but the most conspicuous tendency is a more widespread use of bare kinship nouns in AmNo than in EurNo. There are two obvious ways in which this difference could have emerged: one is innovation in AmNo, meaning that the use of bare kinship nouns was extended in America, whereas EurNo stayed the same. The other possibility is that AmNo is archaic. This would entail that change happened in EurNo; the AmNo speakers that employ bare kinship nouns widely would reflect a previous stage of Norwegian dialects at which bare kinship nouns were less restricted, a stage that is, evidently, not captured in the EurNo data set presented in Section 2.1. A third option consists of a combination of the two scenarios: a decline in the use of bare kinship nouns in EurNo does not exclude extension in AmNo. I adopt this third view; in what follows, I present arguments that, on the one hand, EurNo is undergoing change in the direction of a more restricted use

Table 12. Proportion of bare nouns vs. nouns with a definite suffix, NDC, age < 30

	Construction 1	Construction 2
mor 'mother'	71.1% (37/52)	14.3% (1/7)
far 'father'	64.8% (57/88)	35.7% (5/14)
bror 'brother'	61.5% (32/52)	20% (1/5)
søster 'sister'	33.9% (19/56)	33.3% (1/3)
datter 'daughter'	0% (0/6)	50% (1/2)
tante 'aunt'	10% (1/10)	0% (0/2)
onkel 'uncle'	0% (0/17)	50% (1/2)
Total	52.0% (146/281)	28.6% (10/35)

of bare kinship nouns, whilst at the same time, this option is in most cases being retained and sometimes even extended in AmNo.

For the development in EurNo, a starting point is Julien's (2005:191, n. 35) observation that bare nouns seem to be associated with older speakers and rural areas in Norway. The difference between rural and urban areas was discussed in Section 2.2.2, where it was shown that speakers in and around Oslo only use bare nouns to a very limited extent and far less frequently than the rural speakers in NDC (Table 3). This suggests ongoing change in Norway, at least in and around the capital. To provide a more detailed empirical account of the effect of age, abstracting away from the Oslo area, I re-ran the queries for Constructions 1 and 2 in a sample consisting of speakers in *age group A* (mainly under 30) in NDC; these speakers come from the same rural areas as the EurNo speakers represented in Table 2, but they are considerably younger. The results are presented in Table 12.

As can be seen in Table 12, the proportions of bare nouns in Construction 1 are generally lower than in the sample from older speakers (see Table 2); however, the difference is only statistically significant for the noun *bror* 'brother' ($p < .05$). In Construction 2, I found no significant difference between younger and older speakers (the tokens numbers for individual nouns are very low; I tested both individual nouns and the total for all nouns in this construction). In conclusion, there is a very clear difference between Oslo and rural areas in Norway, suggesting innovation in the cities (or at least in the capital); in the rural dialects, however, there is more stability and only a limited decline of bare nouns. This highlights the need to consider AmNo as an additional locus of change.³²

There are some arguments in favour of an AmNo innovation. First, as mentioned in Section 2.1, measures were taken to make the homeland Norwegian data set resemble the language of the first emigrants as closely as possible (older grammatical literature (Aasen 1864) and older dialect recordings were included), reducing the chance of older dialect features going unnoticed. Second, I have examined two sources that are, admittedly, very modestly sized, but that provide a more direct representation of the language of some of the first emigrants. One is Haugen's (1953) transcribed samples of AmNo, which includes speech data from nine speakers that acquired Norwegian in Norway and subsequently emigrated. The other is samples

from five first-generation AmNo speakers (a total of 5,827 word tokens, also recorded by Haugen in the 1930s/1940s) that have been included Version 3 of CANS.³³ The results are presented Table 13, which includes all occurrences of kinship nouns in Construction 1 sorted by speaker.

In Table 13, the following points can be noted: First, there are no “unexpected” bare nouns (i.e., bare nouns that are not also attested in the EurNo data set). Second, while bare forms are consistently used with *mor* ‘mother’, *far* ‘father’ and *bror* ‘brother’ (and also with *tante* ‘aunt’), there is more variation with other nouns; notably, bare forms are not used with female spouses (see the columns *kone* ‘wife’, *kjerring* ‘wife’ and *jente* ‘girlfriend’), although this is attested in the present-day AmNo data. With the obvious caveat that absence of evidence does not equal negative evidence, this corroborates the idea that the extensive use of bare kinship nouns observed in some speakers arose in America as an innovation.

A third point to bear in mind is that at least some AmNo speakers use bare forms with loan words. Cf. example (15a), repeated for convenience in (21):

- (21) **nephew min** hadde men han hadde mye # trouble
nephew my had but he had much trouble
 ‘My nephew had, but he had much trouble’ (portland_ND_02gk, CANS)

This use with loan words can be seen as a sign of productivity, which is to be expected if bare kinship nouns are being extended in an innovative way.

Summing up, there are arguments both for a decline of bare kinship nouns in EurNo and an extension in AmNo. I take the view that EurNo and AmNo (or at least many of their speakers) are on diverging paths; the observed differences between the varieties are due to changes in both of them. I discuss the different developments in the two varieties in more detail in the immediately following Section 4.2.2.

4.2.2 Decline vs. retention and extension

In EurNo, the clearest diachronic tendency is a decline of bare kinship nouns. In formal terms, this development is consistent with Feature Economy. Bare kinship nouns require an extra feature ([POSS] on N) compared with the regular pattern with a definite suffix, and for the pattern with an extra feature to be maintained, robust attestation in the input is necessary. In the spoken Oslo variety and the Danish-influenced *Bokmål* standard, the feature is already very marginal (many speakers do not use bare nouns at all, see Section 2.2.2), and EurNo speakers have significant exposure to these varieties from a young age, even if they grow up in a rural area (illustratively, children are known to code-switch from their local dialect to a standard-/Oslo-like register in role play; this would not be possible if the children had not been familiar with this variety of homeland Norwegian, see Strand 2020 for a recent study). The slight, but discernable tendency towards a decline of bare nouns among young, rural speakers in Norway can, at least in part, be interpreted as a consequence of mixed input, including input from the standard-/Oslo-like variety. An anonymous reviewer suggests that general dialect levelling is probably more important than influence from standard/Oslo-like language; however, these factors are not in principle mutually exclusive.

Table 13. Results for individual speakers in Construction 1, first-generation speakers in CANS, version 3, and relevant speakers in Haugen (1953)

	mor	far	bror	tante	onkel	kone	kjerring	jente	Tokens
4Q2 Liberty Praire	-	-	-	-	-	0% (0/1)	-	-	1
10C1 Coon Praire	-	-	100% (1/1)	-	-	-	-	-	1
10N1 Coon Praire	-	100% (1/1)	-	-	-	-	-	-	1
coon_valley_WI_45gk	-	-	-	100% (1/1)	100% (2/2)	-	-	-	3
15P1 Beaver Creek	100% (1/1)	100% (2/2)	-	-	-	-	0% (0/2)	0% (0/1)	6
20Q2 Blackhammer	-	100% (1/1)	-	-	-	-	-	-	1
westby_WI_24gm	-	-	100% (5/5)	-	-	-	0% (0/1)	-	6
coon_valley_WI_51gk	-	-	-	-	0% (0/1)	-	-	-	1
Tokens	1	4	6	1	3	1	3	1	20

In AmNo, the most common tendency is retention and sometimes even extension of the POSS feature. Present-day AmNo speakers are generally exposed to less-variable Norwegian input than EurNo speakers. This applies both in the sense that there is less dialect variation (Hjelde 2012, 2015 argues that the Norwegian currently spoken in some of the traditional AmNo communities show signs of being a koiné), and in the sense that most AmNo speakers have far less experience with the written language, formal registers and urban varieties. Haugen (1989:64) describes how Norwegian lost territory in formal and written contexts from the first half of the nineteenth century: for example, by 1949, all but 2.7% of the congregations of the United Norwegian Lutheran Church had cancelled or limited their Norwegian services. This is not to say that all speakers were completely cut off from formal and urban Norwegian; Haugen (1953:352) notes that some speakers in the 1940s were accommodating in the direction of the Bokmål standard. In Coon Vallley and Westby, services in Norwegian were continued, there was a Norwegian “summer school” organised by the church, and Norwegian films were screened well into the 1960s (Hjelde 2015:290). The Norwegian newspaper Decorah-Posten existed until 1972 (Lovoll 1999:329). However, the exposure to formal and standardised language was on a much smaller scale than for speakers in Norway, especially from the mid 20th century; it kept declining, and its effect on the language of present-day speakers, who are the subjects of this study, is very limited. Johannessen & Laake (2012a:366) describe how they had to adjust their spoken Oslo Norwegian in the direction of rural, eastern Norwegian dialects in order to communicate with AmNo speakers during a 2010 fieldwork in the Midwest; Johannessen & Laake (2012b, 2015) find that speakers in Westby and Sunburg do not exhibit any influence from the Bokmål standard in their spoken language (possessive constructions are among the variables they investigate). Hjelde (2012, 2015), in a study of speakers in Coon Valley and Westby, encountered only one person who spoke a standardised variety of Norwegian in 2010, but this speaker stood out as an exception. Relatedly, Hjelde (2015:290) observes that the standardised, Bokmål-like variety has no status as a *lingua franca* in the traditional, AmNo communities today, as very few of the speakers can read Norwegian. One can conclude that mixed Norwegian input, including input from formal registers and urban varieties, which is a likely trigger for change in the direction of fewer bare nouns in EurNo, is only present to a very limited extent in AmNo.

The retention/expansion of [POSS] does not apply to all AmNo speakers; there is a non-negligible minority who do not use bare nouns at all (see Section 3.2.2 and Table 10). Recall, however, that a number of these speakers stand out in the sense that they have had formal education in Norwegian and/or contact with the present-day language of Oslo or other urban areas. Thus, their linguistic behaviour can be related to the same factors that have been discussed elsewhere in this section. Some of the speakers are second generation heritage speakers with a parent from urban Norway, and from the individual perspective of these speakers, no change has taken place, as non-use of bare kinship nouns is likely to have been a property of their input.

The expansion of the range of bare nouns exhibited by some AmNo speakers (i.e., extension of [POSS] to new Ns) might, on the face of it seem surprising, as generalisation of irregular rules is uncommon in language acquisition (e.g., Schuler et al. 2016

and references therein). However, although [POSS] on N is irregular from the perspective of the general rules of Norwegian morphosyntax, it is a feature that occurs quite regularly on a smaller scale, in a semantically defined subclass of the lexicon (kinship nouns), also in the data from the first generation of immigrants and older, rural speakers in the homeland. An overgeneralisation within this class is an analogical extension of the type motivated by Input Generalisation (Section 4.1.2; see also Yang 2016ff. on how a rule can become productive in an independently defined subdivision of the lexicon). Because of the low amount of input from other Norwegian varieties, including formal/urban Norwegian, AmNo speakers will have less “counterevidence” than EurNo speakers to prevent them from applying the [POSS] feature more widely, to an extended class of kinship nouns. Why this change happened in AmNo exactly at the time when it did, is not entirely clear; this is an instantiation of the *actuation problem* (Weinreich et al. 1968), which is one of the lasting questions in historical linguistics (see Walkden 2017 for a recent discussion). However, it does seem clear the development observed in some speakers of AmNo is a type of restructuring that is innovative, but at the same time constrained and systematic, similar to other changes that have been observed in other heritage varieties (e.g., Hopp & Putnam 2015). It does not involve loss or “incompleteness” (e.g., Yager et al. 2015; Kupisch & Rothman 2016; Bayram et al. 2019), neither does it involve direct cross-linguistic influence from the majority language.

5. Conclusion

This study has dealt with split possession and definiteness marking in AmNo. A conspicuous tendency on the overall level is that bare kinship nouns are more common in AmNo than in the homeland variety EurNo. This is reflected both in the set of kinship nouns used in their bare form by some speakers (more lexical items are attested in the AmNo data set), and the extent to which the option of bare nouns is employed, as compared to the competing pattern with a definite suffix. On the individual level, there is considerable variation between speakers both in EurNo and AmNo. In EurNo, bare kinship nouns are in decline, particularly in the Oslo area, but there is also a slight tendency towards less use among younger, rural speakers. In AmNo, on the other hand, most speakers exhibit retention, and some even extension of this property; however, there is also a minority of speakers who do not use bare nouns.

I have analysed bare kinship nouns as a reflex of a POSS feature on N in the relevant nouns, following Julien (2005). The distribution of the POSS feature and the differences between AmNo and EurNo, and different speaker groups, were accounted in the framework of a recent version of parametric theory (Biberauer & Roberts 2017; Roberts 2019). In this framework, [POSS] on N is a small-scale parametric specification. It is expected to be diachronically unstable, which is indeed what we observe comparing AmNo and EurNo.

The development towards more bare forms, observed in some speakers of AmNo, is systematic; the use of bare forms is not extended beyond kinship nouns. The present study adds evidence to the notion that diachronic change in heritage languages does not necessarily involve loss or “incompleteness” (e.g. Yager et al. 2015;

Kupisch & Rothman 2016; Bayram et al. 2019), despite the reduced input that heritage speakers have access to. It is also a case study in how the grammar of heritage languages can change independently of the patterns of the majority language, or remain stable, despite intense contact.

Acknowledgements. The research presented in this article was partially funded by the European Research Council Advanced Grant No. 269752 ‘Rethinking Comparative Syntax’ (ReCoS), by the University of Bergen and by the Research Council of Norway, project 301114 ‘Norwegian across the Americas’. A travel grant from the University of Oslo, Department of Linguistics and Scandinavian Studies is also acknowledged. I would like to thank the NJL editors and three anonymous reviewers, the audiences at WILA 8 and DIGS 20, Janne Bondi Johannessen, Ida Larsson, Theresa Biberauer and Arnstein Hjelde. All remaining errors are my own.

Notes

- 1 Key abbreviations in this article: DEF = definite, MOD.PART = modal particle, POSS = possessive.
- 2 A slightly different version of Construction 1 in Norwegian involves a possessive pronoun followed by a proper name, *mor hennes Kari* ‘mother her Kari’ (Julien 2005:168–174). This version is much less frequent than the version with just a pronoun and has not been included in this study.
- 3 Kinship nouns in Norwegian, and also certain other relational nouns (Johannessen et al. 2014), get special treatment in some additional contexts that I do not discuss in this article. Similar to English, kinship nouns can appear in their bare form without any overt possessor (*mor, far* ‘mother, father’ etc.). The set of nouns appearing in this construction is not identical to the nouns appearing in Constructions 1 and 2. A further construction involves pronominal possessive pronouns: *min far* ‘my father’. Generally, pronominal possessive pronouns in Norwegian are stressed and convey focus; however, Lødrup (2014:40) observes that in the “traditional middle class dialect of Oslo and certain other urban dialects”, kinship nouns (and kinship nouns only) can be combined with a pronominal, unstressed and non-focal possessive pronoun.
- 4 This restriction applies regardless of whether the possessor is a kinship noun or not, but, as an anonymous reviewer points out, it may be overridden by stressed or deictic pronouns.
- 5 A heritage language is defined in this study as a language acquired by children in the home, in a naturalistic setting; however, it is not the dominant language of the larger society (Rothman 2009:156; Benmamoun et al. 2013). See also Montrul (2008, 2016) and Polinsky (2018) for in-depth treatments.
- 6 Apart from these statements, I have not collected acceptability judgements, as judgements for homeland Norwegian ideally should come from speakers who lived at the time of mass emigration in the nineteenth and twentieth century; also, it has not been possible to collect judgements in America for comparison. Anecdotal evidence from a young, homeland speaker of a present-day Trøndelag (central Norwegian) dialect may possibly suggest a particularly wide distribution of bare kinship nouns there, but I have not taken this into account, as it does not find support in the investigated corpus data, and as the present-day AmNo speakers above all exhibit features from dialects of the interior of South-East Norway.
- 7 Version 3 of the corpus includes some recordings from *Målførearkivet*, an older dialect archive. These recordings have subsequently been moved to the LIA corpus.
- 8 Anticipating the analysis in Section 4.1, pronominal determiners are elements of the higher nominal domain (they are D elements; for details, see Julien 2005). The suffixed definite article, on the other hand, is generated in the lower nominal domain (*n* in the framework of Julien 2005).
- 9 Transcription adapted.
- 10 A special case is the proprial article, which can be used with kinship nouns (in addition to proper names), and which generally does not co-occur with the definite suffix. In a small minority of the examples, it may seem like a proprial article is combined with a bare noun in Construction 1, yielding patterns such as *han far min* ‘he father my’, without the demonstrative reading that would be expected if *han* was a pronominal (psychologically distal) demonstrative (Johannessen 2008). These examples have been included in the study, as it seems clear that the presence of a proprial article is not generally a precondition for bare kinship nouns in Constructions 1 and 2. Proprial articles are standardly analysed as D elements, on a par with other pronominal determiners, such as those in (6) and (7) (see footnote 8 and Section 4.1).

11 This is shown in (i), from Norwegian Web as Corpus (NOWAC) (Guevara 2010):

- (i) a. Jeg er glad denne mannen ikke er lærer til mine barn
 I am glad this man isn't my children's teacher.
 'I am glad this man isn't my children's teacher.' (NOWAC, 21436135)
- b. *Lærer til mine barn er syk i dag.
 teacher to my children is sick today
 (Intended:) 'My children's teacher is sick today.'

In (ia), the noun *lærer* 'teacher', i.e. a non-kinship noun, occurs in its bare form as a predicate. The unacceptable example in (ib) shows that this noun cannot be bare as an argument.

12 An uncertain example involving the noun *søskenbarn* 'cousin' from the LIA corpus was excluded; the phonetic transcription, as well as the recording, suggests a contracted form /søskenba:/ in which /η/ is lacking. The suffix is missing, but so is the final sound of the root *barn*; thus, it is not clear if the suffix was present in the first place.

13 All speakers in NDC (and CANS) have an ID which is provided for each cited example. The ID mostly consists of the place of recording, a number, and a combination of the letters *u/g* and *m/k*. *g* means that the speaker is aged 50 or older; *u* is used for younger speakers. *m* and *k* represent *man* and *woman*, respectively. Some speaker IDs include the letters *ma*; this means that the recording originates from *Målførearkivet* (see footnote 7).

14 Aasen's orthography differs from more recent sources.

15 Only the kinship nouns explicitly mentioned by Dagsgard have been added to the list in Table 1. Dagsgard's statement allows for a wider interpretation, given that the nouns are mentioned as examples ('kinship nouns such as . . .'). However, it is not clear how a wider interpretation should be operationalised. A few lines down, Dagsgard refers back to the set of nouns as *desse slektskapsord* 'these kinship words' in a way that suggest he is referring to a restricted subset of kinship nouns and not kinship nouns in general.

16 I used the extended search function in NDC. To query for Construction 1, I entered the relevant nouns as lemmata (meaning that all inflectional forms were included), and specified that they should be directly followed by a determiner (possessive pronouns are treated as determiners in the NDC annotation scheme). I then examined the results manually, excluded irrelevant hits, and decided, on the basis of the phonetic transcription, whether the definite suffix was present or not. For Construction 2, I specified that the relevant nouns should be directly followed by a preposition; otherwise, the procedure was the same as for Construction 1. The actual number of occurrences of Constructions 1 and 2 in NDC is somewhat higher than what is included in Table 2; some examples are not captured by the queries because of, e.g., mistagging or hesitation markers intervening between the noun and the determiner/preposition. In the interest of replicability, I excluded such cases in Table 2.

17 I do not provide quantitative data for the remaining, more peripheral nouns included in Table 1, as the figures would generally be very low.

18 *Kusine* is, in a number of cases, pronounced without the word-final *-e*. Some of these cases have been treated as English loans by the transcribers and assigned to a lemma *cousin*; the entry *kusine* in Table 5 covers queries for both *kusine* and *cousin*. *Kusine* in homeland Norwegian means 'female cousin'. The extent to which AmNo speakers have extended the meaning in the direction of the gender neutral English *cousin* is not clear.

19 This point has previously been made by Westergaard & Anderssen (2015:36); however, Westergaard and Anderssen base their statement on the nouns *onkel* 'uncle' and *forelder* 'parent', which are actually attested in the EurNo data collected for this study (see Table 1).

20 The high token frequencies are probably at least in part an artefact of the topics that tend to come up in sociolinguistic interviews with AmNo speakers, i.e., topics such as the family's migration history, childhood and family life.

21 In Example (13d), I manually disambiguated the word *hos* which was tagged as unclear in the corpus.

22 An anonymous reviewer points out that *jente* 'girl' in (14c) could also be used about one's daughter, but it is clear from the context that the intended meaning is 'girlfriend'; the speaker is describing a picture of a couple.

23 Additionally, the speaker *sunburg_MN_05gk* uses the noun *grandma* in Construction 1: *grandma mi* 'my grandma'. This was not included in Table 5 because it is not clear if the suffix, which could possibly be the feminine *-a* for this noun, is present or not.

24 A possible reservation regarding (15b) is that as the noun ends in /i/, adding the feminine definite suffix /a/ would yield an unusual phonotactic pattern for two-syllable feminines, but on the other hand, the vowel combination /i/ + definite suffix /a/ occurs in other words that are attested in AmNo, such as *historia* ‘the history’.

25 One AmNo speaker uses what seems to be a hybrid form, *tanti*:

- (i) *så da var det # tanti mi e NN*
so then was it aunt my eh [name of informant]
 ‘so then it was my aunt NN’ (fargo_ND_01gm, CANS)

This speaker uses neither the feminine definite suffix /a/, which would yield *tanta*, nor the regular bare form *tante*. The form with *i* has probably emerged under influence from the English *auntie*. One could interpret it as a bare form, but as it seems to be a lexical innovation that is only attested once, I have not included it in Table 5.

26 The category *kinship nouns* in Table 11 is semantically defined and includes both consanguinal and affinal relations.

27 A third case is the neuter noun *namn* ‘name’ in *namn(et) hennes* ‘her name’. Here, too, the suffix (-*et*, /*e*/) may be difficult to detect because of the phonological environment: The postnominal possessive *hennes* is spelled with an <h>, which has also been included in the transcription. However, in the recording, it is not clear if the *h* is actually present, and dropping it would be consistent with phonotactic constraints in Norwegian, as *hennes* does not carry main stress (Kristoffersen 2000:49). Kristoffersen (2000:49) writes that /h/ (and /ç/) are “restricted to syllables with main stress and word-initial syllables.” Although *h* in *hennes* is apparently word-initial, it is not unexpected for the constraint to apply. *Hennes* is clearly unstressed and tightly connected to the preceding noun; in fact, Lødrup (2011) and Svenonius (2017) discuss if postnominal possessives in Norwegian could be analysed as suffixes. If /h/ is dropped, the suffix /e/ becomes difficult to distinguish from the directly following /e/. The fourth case involves the compound *morsside* ‘mother’s side’ (*morssiden min* ‘my mother’s side of the family’). Here there are no clear phonological reasons why the suffix should not be present. However, one might speculate whether lexical semantics plays a role, as the noun, though not denoting any specific family relation, is connected to kinship.

28 See also Lødrup (2014) and Dahl & Koptjevskaja-Tamm (2001) for discussions of the analysis of kinship nouns.

29 Moved elements are marked by strike-through; the most relevant Agreement relations are indicated by arrows. I adopt mainstream Probe-Goal theory (Chomsky 2000, 2001) with no distinction between unvalued and uninterpretable features (contra (contra Pesetsky & Torrego 2007). For explicitness, I mark the most relevant unvalued (= uninterpretable) features as *u* and valued (= interpretable) features as *i*.

30 In more precise terms, Julien (2005:193–194) states that “... the POSS feature of *n* is identified by the possessed kinship term, which is inherently relational. Consequently, the *n* head need not be spelled out...”. The statement that the *n* head is not spelled out follows from Julien’s analysis of head movement: Julien (2005) treats head movement as adjunction, which means that the possessed kinship noun, which is spelled out, is technically not sitting in the *n* head, but in a position adjoined to it.

31 Multisyllabic compounds headed by these nouns exhibit a similar behaviour. I ran a separate search in the EurNo data for the compound *bestefar* ‘grandfather’, which is trisyllabic, and I found that it was used in its bare form in 76.6% of the cases (26/34), i.e. no less frequently than the monosyllabic head *far* on its own. Thus, one would have to assume that it is the syllable structure of the head of the compound, not the whole word, that determines the distribution of [POSS].

32 On the face of it, facts from present-day Icelandic (see Section 2.2.1) could potentially provide a further argument for a long-term decline of bare kinship nouns in EurNo: Icelandic generally allows more bare nouns than EurNo, and one might think that bare kinship nouns are a shared inheritance from the common ancestor Old Norse, in which bare nouns were generally more widely used than now (Lander Haegeman 2014, Börjars et al. 2016). However, Delsing & Egerland (2002:115) show that the split between kinship and non-kinship nouns in the Icelandic equivalent of Construction 1 is actually a fairly recent phenomenon, established as a systematic pattern in the eighteenth century. Thus, it does not seem convincing to treat it as a shared inheritance.

33 Version 3 was queried in early January 2021. Recall that only recordings from 2010 onwards were included in the main data collection for this study. There is some overlap between the samples in Haugen (1953) and the CANS data (the speaker *coon_valley_WI_45gk* is identical to 11R1 in Haugen's notation), but no individual examples are represented more than once in Table 13.

References

- Aasen, Ivar. 1864. *Norsk grammatik*. Kristiania: Malling.
- Anderssen, Merete, Björn Lundquist & Marit Westergaard. 2018. Crosslinguistic similarities and differences in bilingual acquisition and attrition: Possessives and double definiteness in Norwegian heritage language. *Bilingualism: Language and Cognition* 21(4), 748–764.
- Anderssen, Merete & Marit Westergaard. 2012. Tospråklighet og ordstilling i norske possessivkonstruksjoner. *Norsk Lingvistisk Tidsskrift* 30, 310–337.
- Ascander, Dost & Vera Gribanova. 2006. Definiteness marking in the Bulgarian [sic]. In Donald Baumer, David Montero & Michael Scanlon (eds.), *Proceedings of the 25th West Coast Conference on Formal Linguistics*, 132–140. Somerville, MA: Cascadilla Press.
- van Baal, Yvonne. 2018. Compositional definiteness in Heritage Norwegian: Production studied in a translation experiment. In Jan Heegård Petersen & Karoline Kühl (eds.), *Selected Proceedings of the 8th Workshop on Immigrant Languages in the Americas (WILA 8)*, 9–17. Somerville, MA: Cascadilla Proceedings Project.
- van Baal, Yvonne. 2020. Compositional Definiteness in American Heritage Norwegian. Ph.D. dissertation, University of Oslo.
- Baker, Mark. 2008. The macroparameter in a microparametric world. In Theresa Biberauer (ed.), *The Limits of Syntactic Variation*, 351–373. Amsterdam: John Benjamins.
- Bayram, Fatih, Tanja Kupisch, Diego Pascual y Cabo & Jason Rothman. 2019. Terminology matters on theoretical grounds too! Coherent grammars cannot be incomplete. *Studies in Second Language Acquisition* 41, 257–264.
- Becker, Aaron. 2013. *Journey*. London: Walker Books.
- Benmamoun, Elabbas, Silvina Montrul & Maria Polinsky. 2013. Heritage languages and their speakers: Opportunities and challenges for linguistics. *Theoretical Linguistics* 39(3–4), 129–181.
- Biberauer, Theresa. 2017. Factors 2 and 3: A principled approach. *Cambridge Occasional Papers in Linguistics* 10, 38–65.
- Biberauer, Theresa. 2018. Pro-drop and emergent parameter hierarchies. In Federica Cognola & Jan Casalicchio (eds.), *Null Subjects in Generative Grammar. A Synchronic and Diachronic Perspective*, 94–135. Oxford: Oxford University Press.
- Biberauer, Theresa & Ian Roberts. 2017. Parameter setting. In Adam Ledgeway & Ian Roberts (eds.), *The Cambridge Handbook of Historical Syntax*, 134–162. Cambridge: Cambridge University Press.
- Börjars, Kersti, Pauline Harries & Nigel Vincent. 2016. Growing syntax: The development of a DP in North Germanic. *Language* 92(1), e1–e37.
- Chappell, Hillary & William McGregor. 1996. Prolegomena to a theory of inalienability. In Hillary Chappell & William McGregor (eds.), *The Grammar of Inalienability: A Typological Perspective on Body Part Terms*, 3–30. Berlin: Mouton de Gruyter.
- Chomsky, Noam. 1981. *Lectures on Government and Binding*. Dordrecht: Foris.
- Chomsky, Noam. 2000. Minimalist inquiries: The framework. In Roger Martin, David Michaels & Juan Uriagereka (eds.), *Step by Step. Essays on Minimalist Syntax in Honor of Howard Lasnik*, 89–156. Cambridge, MA: MIT Press.
- Chomsky, Noam. 2001. Derivation by phase. In Michael Kenstowicz (ed.), *Ken Hale: A Life in Language*, 1–53. Cambridge, MA: MIT Press.
- Chomsky, Noam. 2005. Three factors in language design. *Linguistic Inquiry* 36(1), 1–22.
- Dagsgard, Asbjørn. 2006. *Målet i Lom og Skjåk*. Lom/Skjåk: Lom kommune and Skjåk kommune.
- Dahl, Østen & Maria Koptjevskaja-Tamm. 2001. Kinship in grammar. In Irène Baron, Michael Herslund & Finn Sørensen (eds.), *Dimensions of Possession*, 201–225. Amsterdam: John Benjamins.

- Delsing, Lars-Olof.** 2003. Syntaktisk variation i nordiska nominalfraser. In Øystein Alexander Vangsnes, Anders Holmberg & Lars-Olof Delsing (eds.), *Dialektsyntaktiska studier av den nordiska nominalfrasen*, 11–64. Oslo: Novus forlag.
- Delsing, Lars-Olof & Verner Egerland.** 2002. Kinship nouns in possessive constructions in Italian and Scandinavian. *Sprachtypologie und Universalienforschung (STUF)* 55(2), 193–120.
- Dixon, Robert M.W.** 2010. Basic Linguistic Theory, vol. 2, *Grammatical Topics*. Oxford: Oxford University Press.
- Faarlund, Jan Terje, Svein Lie & Kjell Ivar Vannebo.** 1997. Norsk referansegrammatikk. Oslo: Universitetsforlaget.
- van Gelderen, Elly.** 2011. *The Linguistic Cycle. Language Change and the Language Faculty*. Oxford: Oxford University Press.
- Guevara, Emiliano Raul.** 2010. NoWaC: A large web-based corpus for Norwegian. In *Proceedings of the NAACL HLT 2010 Sixth Web as Corpus Workshop*, 1–7. Association for Computational Linguistics.
- Haugen, Einar.** 1953. *The Norwegian Language in America*, vol. II. Pennsylvania: University of Pennsylvania Press.
- Haugen, Einar.** 1989. The rise and fall of Norwegian in America. In Nancy C. Dorian (ed.), *Investigating Obsolescence. Studies in Language Contraction and Death*, 61–73. Cambridge: Cambridge University Press.
- Heycock, Caroline & Roberto Zamparelli.** 2003. Coordinated bare definites. *Linguistic Inquiry* 34(3), 443–469.
- Hjelde, Arnstein.** 2012. “Folkan mine, dæm bære snakka norsk” – norsk i Wisconsin frå 1940-talet og fram til i dag. *Norsk Lingvistisk Tidsskrift* 30(2), 183–203.
- Hjelde, Arnstein.** 2015. Changes in a Norwegian dialect in America. In Janne Bondi Johannessen & Joseph C. Salmons (eds.), *Germanic Heritage Languages in North America. Acquisition, Attrition and Change*, 283–298. Amsterdam: John Benjamins.
- Hopp, Holger & Michael T. Putnam.** 2015. Syntactic restructuring in heritage grammars. *Linguistic Approaches to Bilingualism* 5(2), 180–214.
- Johannessen, Janne Bondi.** 2008. The pronominal psychological demonstrative in Scandinavian: Its syntax, semantics and pragmatics. *Nordic Journal of Linguistics* 31(2), 161–192.
- Johannessen, Janne Bondi.** 2015. The Corpus of American Norwegian Speech. In Béata Megyesi (ed.), *Proceedings of the 20th Nordic Conference of Computational Linguistics, NODALIDA 2015, May 11–13, 2015, Vilnius, Lithuania*, NEALT.
- Johannessen, Janne Bondi.** 2018. Factors of variation, change and maintenance in Scandinavian heritage languages. *International Journal of Bilingualism* 22(4), 447–465.
- Johannessen, Janne Bondi, Marit Julien & Helge Lødrup.** 2014. Preposisjoner og eierskapsrelasjoner: et menneskesentrert hierarki. In Kristin Hagen & Janne Bondi Johannessen (eds.), *Språk i Norge og nabolanda*, 65–97. Oslo: Novus forlag.
- Johannessen, Janne Bondi & Signe Laake.** 2012a. Østnorsk som fellesdialekt i Midtvesten. *Norsk Lingvistisk Tidsskrift* 30(2), 365–380.
- Johannessen, Janne Bondi & Signe Laake.** 2012b. To myter om det norske språket i Amerika: Er det gammeldags? Nærmer det seg en bokmålsstandard? *Norsk Lingvistisk Tidsskrift* 30(2), 204–228.
- Johannessen, Janne Bondi & Signe Laake.** 2015. On two myths of the Norwegian language in America. Is it old-fashioned? Is it approaching the written Bokmål standard? In Janne Bondi Johannessen & Joseph C. Salmons (eds.), *Germanic Heritage Languages in North America. Acquisition, Attrition and Change*, 299–322. Amsterdam: John Benjamins.
- Johannessen, Janne Bondi, Joel Priestley, Kristin Hagen, Tor Anders Åfarli & Øystein Alexander Vangsnes.** 2009. The Nordic Dialect Corpus – an advanced research tool. In Kristiina Jokinen & Eckhard Bick (eds.), *Proceedings of the 17th Nordic Conference of Computational Linguistics NODALIDA 2009*, 73–80. Odense: Northern European Association for Language Technology.
- Johannessen, Janne Bondi & Joseph C. Salmons.** 2015. The study of Germanic heritage languages in the Americas. In Janne Bondi Johannessen & Joseph C. Salmons (eds.), *Germanic Heritage Languages in North America. Acquisition, Attrition and Change*, 1–20. Amsterdam: John Benjamins.
- Julien, Marit.** 2002. Determiners and word order in Scandinavian DPs. *Studia Linguistica* 56(3), 264–314.
- Julien, Marit.** 2005. *Nominal phrases from a Scandinavian perspective*. Amsterdam: John Benjamins.

- Kockelman, Paul.** 2009. Inalienable possession as grammatical category and discourse pattern. *Studies in Language* 33(1), 25–68.
- Kristoffersen, Gjert.** 2000. *The phonology of Norwegian*. Oxford: Oxford University Press.
- Kupisch, Tanja & Jason Rothman.** 2016. Terminology matters! Why difference is not incompleteness and how early child bilinguals are heritage speakers. *International Journal of Bilingualism* 22(5), 564–582.
- Lander, Eric T. & Liliane Haegeman.** 2014. Old Norse as an NP language. *Transactions of the Philological Society* 112(3), 279–318.
- Larsson, Ida & Janne Bondi Johannessen.** 2015. Incomplete acquisition and verb placement in Heritage Scandinavian. In B. Richard Page & Michael T. Putnam (eds.), *Moribund Germanic Heritage Languages in North America*, 153–189. Leiden: Brill.
- Lødrup, Helge.** 2011. Norwegian possessive pronouns: Phrases, words or suffixes? In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG11 Conference*, 339–359. Stanford: CSLI Publications.
- Lødrup, Helge.** 2014. Split possession and the syntax of kinship nouns in Norwegian. *Journal of Comparative Germanic Linguistics* 17, 35–57.
- Lødrup, Helge.** 2016. “Dekanus er i sentrum og sjekker larynks.” Lærde substantiver med definititt tolkning i norsk. *Maal og Minne*, 31–50.
- Lovoll, Odd S.** 1999. *The Promise of America. A History of the Norwegian-American People*. Minneapolis: The University of Minnesota Press 2nd edn.
- Lykke, Alexander K.** 2020. *Variation and Change in the Tense Morphology of Heritage Norwegian in North-America*. Ph.D. dissertation, University of Oslo.
- Montrul, Silvina A.** 2008. *Incomplete Acquisition in Bilingualism. Re-examining the Age Factor*. Amsterdam: John Benjamins.
- Montrul, Silvina A.** 2016. *The Acquisition of Heritage Languages*. Cambridge: Cambridge University Press.
- Pesetsky, David & Esther Torrego.** 2007. The syntax of valuation and the interpretability of features. In Simin Karimi, Vida Samiian & Wendy K. Wilkins (eds.), *Phrasal and Clausal Architecture. Syntactic Derivation and Interpretation*, 262–294. John Benjamins.
- Polinsky, Maria.** 2018. *Heritage Languages and Their Speakers*. Cambridge: Cambridge University Press.
- R Core Team.** 2020. *R: A Language and Environment for Statistical Computing*. R Foundation for Statistical Computing, Vienna, Austria.
- Riksem, Brita Ramsevik.** 2017. Language mixing and diachronic change: American Norwegian noun phrases then and now. *Languages* 2(2). <https://doi.org/10.3390/languages2020003>.
- Riksem, Brita Ramsevik.** 2018. *Language Mixing in American Norwegian Noun Phrases: An Exoskeletal Analysis of Synchronic and Diachronic Patterns*. Ph.D. dissertation, Norwegian University of Science and Technology.
- Roberts, Ian.** 2007. *Diachronic Syntax*. Oxford: Oxford University Press.
- Roberts, Ian.** 2019. *Parameter Hierarchies and Universal Grammar*. Oxford: Oxford University Press.
- Roberts, Ian & Anna Roussou.** 2003. *Syntactic Change. A Minimalist Approach to Grammaticalization*. Cambridge: Cambridge University Press.
- Rothman, Jason.** 2009. Understanding the nature and outcomes of early bilingualism: Romance languages as heritage languages. *International Journal of Bilingualism* 13(2), 155–163.
- Schuler, Kathryn D., Charles Yang & Elissa L. Newport.** 2016. Testing the tolerance principle: Children form productive rules when it is more computationally efficient to do so. In A. Papafragou, D. Grodner, D. Mirman & J.C. Trueswell (eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*, Austin, TX: Cognitive Science Society.
- Seiler, Hansjakob.** 1981. Possession as an Operational Dimension of Language. Köln: Institut für Sprachwissenschaft, Universität Köln.
- Sigurðsson, Halldór Ármann.** 2006. The Icelandic noun phrase. Central traits. *Arkiv för nordisk filologi* 121, 193–236.
- Stolz, Thomas, Sonja Kettler, Cornelia Stroh & Aina Urdze.** 2008. *Split Possession: An Arealinguistic Study of the Alienability Correlation and Related Phenomena in the Languages of Europe*. Amsterdam: John Benjamins.
- Strand, Bror-Magnus S.** 2020. Morphological variation and development in a Northern Norwegian role play register. *Nordic Journal of Linguistics* 43(3), 289–321.
- Svenonius, Peter.** 2017. Declension class and the Norwegian definite suffix. In Vera Gribanova & Stephanie S. Shih (eds.), *The Morphosyntax-Morphology Connection*, 325–359. Oxford: Oxford University Press.

- Thráinsson, Höskuldur.** 2007. *The Syntax of Icelandic*. Cambridge: Cambridge University Press.
- Thráinsson, Höskuldur, Hjalmar P. Petersen, Jógvan í Lon Jacobsen & Zakaris Svabo Hansen.** 2012. Faroese. An Overview and Reference Grammar. Tórshavn: Føroya Fróðskaparfelag.
- Torp, Arne.** 1973. Om genitivsomskrivninger og -s-genitiv i norsk. *Maal og Minne*, 125–150.
- Vangsnes, Øystein Alexander.** 1999. The Identification of Functional Architecture. Ph.D. dissertation, University of Bergen.
- Venås, Kjell.** 1977. *Hallingmålet*. Oslo: Samlaget.
- Walkden, George.** 2017. The actuation problem. In Adam Ledgeway & Ian Roberts (eds.), *The Cambridge Handbook of Historical Syntax*, 403–424. Cambridge: Cambridge University Press.
- Weinreich, Uriel, William Labov & Marvin I. Herzog.** 1968. Empirical foundations for a theory of language. In Winfred Lehmann & Yakov Malkiel (eds.), *Directions for Historical Linguistics*, 95–189. Austin: University of Texas Press.
- Westergaard, Marit & Merete Anderssen.** 2015. Word order variation in Norwegian possessive constructions: Bilingual acquisition and attrition. In Janne Bondi Johannessen & Joseph C. Salmons (eds.), *Germanic Heritage Languages in North America. Acquisition, Attrition and Change*, 21–45. Amsterdam: John Benjamins.
- Yager, Lisa, Nora Hellmold, Hyoun-A Joo, Michael T. Putnam, Eleonora Rossi, Catherine Stafford & Joseph C. Salmons.** 2015. New structural patterns in moribund grammar: case marking in Heritage German. *Frontiers in Psychology* 6, 1–9.
- Yang, Charles.** 2016. *The Price of Linguistic Productivity. How Children Learn to Break the Rules of Language*. Cambridge, MA: MIT Press.