Grammatical Gender and Declension Class in Language Change:
A Study of the Loss of Feminine Gender in Norwegian

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In this paper, we investigate an ongoing change in the grammatical gender system of Norwegian. Previous research has shown that the feminine form of the indefinite article is quickly disappearing from several dialects, which has led to claims that the feminine gender is being lost from the language. We have carried out a study of the status of the feminine in possessives across five age groups of speakers of the Tromsø dialect. Our findings show that the prenominal possessives are affected by the change to the same extent as the indefinite article, while forms that have been argued not to be exponents of gender (the definite suffix and the postnominal possessive) are generally unaffected.

Keywords: possessives, dialects, indefinite articles, definite suffix, allomorphy

1. Introduction.
Several recent studies have investigated an ongoing change in the grammatical system of Norwegian, where some dialects have been shown to be in the process of changing from a three-gender system to a system with only two genders, for example, Oslo (Lødrup 2011a,b, Lundquist & Vangsnes 2018), including the urban ethnolect (Opsahl 2009), Kåfjord, Nordreisa, and Finnmark dialects (Conzett et al. 2011, Stabell 2016), Tromsø (Rodina & Westergaard 2015, Lundquist et al. 2016), and Trondheim (Busterud et al. 2019). While the traditional gender system distinguishes between masculine, feminine, and neuter, as in 1a, the new gender system illustrated in 1b lacks feminine agreement forms, preserving only a distinction between the neuter and what may be
referred to as common gender.

(1) a. en bil ei dame et hus
   a.M car a.F lady a.N house
   ‘a car’ ‘a lady’ ‘a house’

   b. en bil en dame et hus
   a.C car a.C lady a.N house
   ‘a car’ ‘a lady’ ‘a house’

This change results in a somewhat more complex declension system expressed on suffixed definite articles, which generally retain the traditional feminine form (but see below for certain exceptions). In the new two-gender system, common gender nouns have two declension paradigms, one for masculine nouns and another for previously feminine nouns, as illustrated in 2a and 2b, respectively. Neuter nouns remain unchanged, as in 2c.

(2) a. en bil—bilen
   a.C car car.DEF
   ‘a car—the car.’

   b. en dame—dama
   a.C lady lady.DEF
   ‘a lady—the lady.’

   c. et hus — huset
   a.N house house.DEF
   ‘a house—the house.’

The current loss of the feminine gender across a number of dialects is argued to be caused by sociolinguistic factors, such as language contact in certain areas in North Norway (Conzett et al. 2011) or the influence of a high-prestige variety of Norwegian spoken in Western Oslo (Lødrup 2011a,b, Lundquist et al. 2016, Lundquist & Vangsnes 2018). In a recent investigation comparing the status of feminine in the dialects of Trondheim and Tromsø (Busterud et al. 2019), it has been suggested that the high prestige of the Western Oslo dialect may also explain why the change is more advanced in urban dialects (often referred to as city
jumping in the sociolinguistic literature; see Taeldeman 2005; Trudgill 1974, 1983; Vandekerckhove 2009). Lundquist et al. (2016) and Lundquist & Vangsnes (2018) also highlight Norwegian speakers’ constant exposure to variation within their language, which may lead to unstable production of the feminine indefinite article ei across different dialects.

The claim that the feminine is being lost is largely based on the disappearance of the indefinite article ei ‘a’. However, this could, in principle, be a change affecting a single feminine form rather than the whole feminine gender category altogether. That is, this could simply be an extension of the syncretism that already exists between masculine and feminine forms (see the next section), rather than the loss of feminine gender. In traditional three-gender dialects, there is only one other unambiguously feminine category, the possessive, which may be either pre- or postnominal. According to recent analyses, pre- and postnominal possessives differ in that only the former are exponents of gender (Lødrup 2011b, Svenonius 2017).

Possessives have so far not been studied systematically. Therefore, in the present study we conduct a cross-sectional empirical investigation of gender marking in indefinite as well as possessive noun phrases in the Tromsø dialect, across five age groups. We consider speaker preferences for two unambiguously feminine forms, indefinite ei ‘a’ and 1st person singular possessive mi ‘my’. Furthermore, we compare pre- and postnominal possessives and investigate the status of the latter in relation to the feminine definite suffix -a, thus addressing possible consequences of the loss of feminine gender for the declension system of Norwegian.

The structure of the paper is as follows: The next section provides some relevant background on gender in Norwegian and the Tromsø dialect in particular, focusing on the structure of possessives and some previous research. Section 3 introduces the current study, including research questions and methodology, while section 4 gives an overview of the results, which generally confirm that the feminine gender is being lost. Section 5 provides a discussion, focusing on gender versus declension class, and section 6 is a brief summary and conclusion.

2. Background.

2.1. The Traditional Three-Gender System of Norwegian.

While many other Germanic languages—for example, Dutch or Danish—have lost the feminine gender, Norwegian dialects have
traditionally retained the three-gender system of Old Norse, with the exception of the Bergen dialect, which lost the feminine gender in the 14th century, arguably due to contact with Low German during the Hansa period (Jahr 1998, 2001; Trudgill 2013). The traditional three-gender system of many Norwegian dialects is displayed in table 1, illustrating indefinite and definite forms (the latter expressed as a suffix), as well as adjectives, pre- and postnominal possessives, and so-called double definites (which are required when the noun phrase is either demonstrative or modified, as in det store huset ‘the big house.DEF’).

|                | Masculine | Feminine | Neuter |
|----------------|-----------|----------|--------|
| **Indefinite** |           |          |        |
| Masculine      | en hest ‘a horse’ |          |        |
| Feminine       | ei bok ‘a book’   |          |        |
| Neuter         | et hus ‘a house’  |          |        |
| **Definite**   |           |          |        |
| Masculine      | hesten ‘horse.DEF’ |          |        |
| Feminine       | boka ‘book.DEF’   |          |        |
| Neuter         | huset ‘house.DEF’ |          |        |
| **Double definite** | | | |
| Masculine      | den hesten ‘that horse.DEF’ |          |        |
| Feminine       | den boka ‘that book.DEF’ |          |        |
| Neuter         | det huset ‘that house.DEF’ |          |        |
| **Adjective**  |           |          |        |
| Masculine      | en fin hest ‘a nice horse’ |          |        |
| Feminine       | ei fin bok ‘a nice book’ |          |        |
| Neuter         | et fint hus ‘a nice house’ |          |        |
| **Possessive** |           |          |        |
| Masculine      | min hest / hesten min ‘my horse’ |          |        |
| Feminine       | mi bok/boka mi ‘my book’ |          |        |
| Neuter         | mitt hus/huset mitt ‘my house’ |          |        |

Table 1. The traditional three-gender system in many varieties of Norwegian.

One striking property of the Norwegian gender system is the extensive syncretism between masculine and feminine forms. As illustrated in table 1, the syncretism applies to adjectives, as in fin ‘nice.M/F’ versus fint ‘nice.N’ and the prenominal determiner in the double definite form, as in den (M/F) versus det (N). Further examples, not illustrated in the table, include demonstratives, as in denne hesten/boka ‘this horse.M/book.F’ versus dette huset ‘this house.N’, and quantifiers, as in all maten/suppa ‘all the food.M/soup.F’ versus alt rotet ‘all the mess.N’. These syncretic forms are also characteristic of the Tromsø dialect, which means that, like other dialects of Norwegian, this dialect has very few exponents of feminine gender. In addition to the indefinite article illustrated in table 1, there is only one adjective (meaning ‘little’) that shows no syncretism: liten(M)–lita(F)–lite(N) as well as some of the possessives: 1st person singular (min–mi–mitt ‘my.M/F/N’), 2nd person singular (din–di–ditt ‘your.M/F/N’), and 3rd person reflexive possessives (sinMASC, siFEM,
Some traditional dialects use the personal pronouns *ho* ‘she’ and *han* ‘he’ for inanimate nouns, as in French or German, for example. While we are not aware of any systematic study of this phenomenon, it is our impression that pronominal *ho* and *han* for inanimates are virtually nonexistent in the present-day Tromsø dialect, at least among young speakers. Thus, the 3rd person pronoun *ho* ‘she’ is mainly used to refer to biologically female animates. This means that there are very few unambiguously feminine forms across different dialects of Norwegian (including Tromsø), mainly the indefinite article *ei* and the above-mentioned possessives (*mi* ‘my’, *di* ‘your’, and the reflexive *si* ‘her, his, their’).

In this article, we adopt the relatively standard definition of gender expressed in Hockett 1958:231, according to which “[g]enders are classes of nouns reflected in the behavior of associated words.” This means that gender is a morphosyntactic feature expressing agreement between the noun and other words, such as determiners, adjectives, etc. This view of agreement as the defining property of gender is widely accepted today (see Comrie 1999, Audring 2014 among others). By contrast, affixes on the noun itself are considered to be part of the declension paradigm. Thus, although affixes may differ across noun classes (and therefore across genders), they are not themselves exponents of gender (Corbett 1991:146). On this definition of gender, the definite suffix in Norwegian does not express gender, but is a declension class marker. However, the definite suffix has traditionally been considered to be a gender marker in Norwegian grammar (see, for example, Faarlund et al. 1997). We believe that there is good reason to consider the indefinite article and the definite suffix as different with respect to gender exponence, as the two forms behave differently both in language acquisition and language change. For example, definite suffixes are in place considerably earlier than indefinite articles in Norwegian child language (Rodina & Westergaard 2013a,b). Furthermore, Lødrup (2011a), Conzett et al. (2011), and Rodina & Westergaard (2015) have shown that a change in the indefinite article typically does not affect the

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1 This adjective is not part of the present study. For an interesting and recent development of *ei lit(t)a x* ‘a little x’ used with masculine and neuter nouns, see Opsahl 2017 or Fløgstad & Eiesland 2019.
definite suffix. This has also been attested in Norwegian heritage language (Lohndal & Westergaard 2016). The evidence from acquisition and change indicates that the form of the indefinite article is determined by gender, while the form of the definite suffix is determined by declension class.

Norwegian definite and indefinite plural forms are also expressed by suffixes (including a null suffix in the indefinite form of many neuter nouns), and in many dialects there are distinct plurals generally corresponding to the three genders. For example, the Tromsø dialect has the following forms for masculine, feminine, and neuter, respectively: *hesta–hestan* ‘horses.INDF.PL/DEF.PL’, *nåle–nålen* ‘needles.INDF.PL/DEF.PL’, *hus–husan* ‘houses.INDF.PL/DEF.PL’. However, there is considerable variation across dialects, and the correspondence between gender and plural forms is weak at best. Thus, to our knowledge, nobody has argued that plurals in Norwegian are exponents of gender (see Enger 2004, Lødrup 2011a, Rodina & Westergaard 2013a).

Finally, it should be noted that gender assignment is relatively non-transparent in Norwegian. Trosterud (2001) has nevertheless identified as many as 43 rules for gender assignment, but these have many exceptions and may only be considered to be tendencies. One such tendency assumed to have considerable predictive power is observed in disyllabic nouns ending in -e, which are often feminine (that is, the class of so-called weak feminines), such as *ei bøtte* ‘a bucket’, *ei skjorte* ‘a shirt’.

2.2. The Status of the Feminine in the Tromsø Dialect.

Rodina & Westergaard (2015) argue that there is an ongoing historical change in the Tromsø dialect involving the loss of feminine gender agreement. This argument is based on a study showing that young children and teenagers hardly use the feminine indefinite article *ei*.

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2 According to Urek et al. (submitted), the majority of nouns ending in -e are in fact masculine (for example, *en pinne* ‘a stick’, *en bolle* ‘a bowl’), but since the class of masculines is so large (and also argued to be the default in Norwegian, according to Trosterud 2001), this is not considered to be a typical cue for masculine nouns.
replacing it by the masculine form *en*. The study examines indefinites in five groups of participants: preschool children (group 1), 2nd graders (group 2), 7th graders (group 3), adolescents (group 4), and adults (group 5). Feminine indefinite *ei* was infrequently attested in the data from preschoolers and elementary school children (groups 1, 2, and 3), making up only 7–15% of responses. In contrast, adults were found to use *ei* 99% of the time. Adolescents’ use of *ei* amounted to 56% of their responses, which was significantly different from both children and adults. This was the only participant group that displayed a considerable amount of variation, as approximately half of the group used feminine *ei* consistently and the rest of the group used *ei* and *en* interchangeably across all (feminine) test nouns.

Despite the observed changes in the agreement form, Rodina & Westergaard (2015) show that these (previously) feminine nouns retained the suffixed definite article *-a*, as this form was used by all participant groups between 89% and 99% of the time. Thus, the authors argue that the new two-gender system of the Tromsø dialect is characterized by an added complexity in the declension system, as common gender nouns now have two declension patterns, one corresponding to the originally masculine nouns and the other to the originally feminine nouns, as shown above in 2a,b. Thus, the number of inflectional classes is larger than the number of genders, which conforms to the gender-declension relationship observed across various other languages (see, among others, Corbett 1982, Wechsler & Zlatić 2000, Enger 2004).

A slightly different picture has been reported for the suffixed definite forms of traditionally feminine nouns in studies investigating the dialects of Trondheim and Oslo (Busterud et al. 2019, Lundquist & Vangsnes 2018). Busterud et al. (2019) show that in Trondheim, previously feminine nouns occasionally appear with the masculine *-en* suffix instead of the traditional *-a* form, suggesting that there may also be an incipient change in the declension system. The *-en* form with the feminines is found 23% and 11% of the time in the two youngest age groups, and 13% of the time in the production of the adults, but no participant is reported to use the *-en* form consistently.³ Busterud et al. (2019) also

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³ It should be noted that the data are somewhat unclear, in that the two middle groups produce virtually no examples of the masculine suffix *-en* with traditionally feminine nouns, and the youngest age group also produces
show that the Trondheim change in the indefinites is somewhat more advanced than in Tromsø, in that even adult Trondheim speakers use feminine *ei* infrequently (35% of the time) in contrast to adult Tromsø speakers, who are productive users of *ei* (99%), according to Rodina & Westergaard 2015. The change in the declension class system appears to be even more pronounced in the Oslo dialect.\(^4\) In Lundquist & Vangsnes 2018, 10 out of 33 participants aged 17–18 are shown to consistently use the masculine definite suffix, 10 others consistently use the feminine definite suffix, and the remaining three switch between masculine and feminine. It should be noted that there is nevertheless a considerable distinction between the suffixes and gender forms, as the majority of the participants (27 out of 33) consistently used the masculine indefinite article with previously feminine nouns, and the authors conclude that feminine gender no longer exists as a category for most young Oslo speakers.

As stated in Introduction, various sociolinguistic phenomena may have been instrumental in bringing about the change in the gender system of Norwegian dialects. The nature of the change is nevertheless attributed to several language-internal factors. According to Rodina & Westergaard 2015, one of the major factors explaining the loss of the feminine gender is the syncretism between masculine and feminine across various agreement forms, as discussed in the previous section.

\(^4\) We would like to thank an anonymous reviewer for pointing out that the history of gender and declension in Oslo is different from that in Tromsø and other places in Norway. In the 19th century, educated speakers used what has been referred to as *den dannede dagligtale* ‘the educated casual style’, a compromise between the urban dialect and a Norwegian reading pronunciation of Danish (Torp 2005:1428). Like Danish, this variety had two genders and only one way of inflecting non-neuter nouns, namely, with the masculine definite suffix *-en*. Over time, the educated casual style has been modified, and its successor is often referred to as the Western Oslo dialect. This dialect influenced and was influenced by the traditional “popular” Oslo dialect. Thus, the decline of the feminine gender in Oslo reflects the spread and influence of the Western Oslo dialect, while the use of the definite singular suffix *-a* in Western Oslo reflects the influence of the “popular” Oslo dialect.
Frequency is shown to play an additional role in the competition between masculine and feminine, as masculine is reported to be massively more frequent than feminine (as well as neuter), both in the language as a whole and in the input to children: Based on a total of 31,500 nouns in the Nynorsk Dictionary, Trosterud (2001) has found that masculine nouns make up 52%, while feminine nouns constitute 32% and neuter nouns only 16%. Furthermore, based on a sample of child-directed speech, Rodina & Westergaard (2015) show that the token frequency of the masculine indefinite article *en* is as high as 62.9% (1,866/2,980), while the feminine and neuter forms *ei* and *et* are represented 18.9% (563/2,980) and 18.5% (551/2,980), respectively. Finally, the different behavior of indefinite articles and definite suffixes may be due to the latter being acquired very early (around the age of 2–3, see Anderssen 2006, Rodina & Westergaard 2013a,b), while the former are often not produced target-consistently until approximately the age of 6–7 (Rodina & Westergaard 2015).

2.3. The Structure of Possessives in Norwegian.

As mentioned above, possessives can be either pre- or postnominal in Norwegian, as shown in 3a,b (see, among others, Faarlund 2019). Nouns obligatorily have indefinite morphology with prenominal possessives and definite morphology with postnominal possessives. The main difference between the two possessive constructions is that the prenominal one has a marked, contrastive interpretation, while the postnominal one is more neutral. For this reason, the postnominal possessive is also the more frequent construction, making up approximately 75% of all possessives in spontaneous production (Anderssen & Westergaard 2010). An in-depth investigation of the properties of Norwegian pre- and postnominal possessives offered in Lødrup 2011b emphasizes the strong-weak pronominal distinction, where pre- and postnominal possessives are shown to have properties of strong and weak pronouns, respectively. For the discussion of gender presented below it is important to keep in mind that postnominal possessives always, without exception, immediately follow a noun with the definite suffix.

(3) a. min bil
    ‘my car’
b. bilen min
car.DEF my
‘my car’

Only three possessive forms unambiguously mark a masculine-feminine-neuter distinction: 1st person singular (\textit{min–mi–mitt ‘my.M/F/N’}), 2nd person singular (\textit{din–di–ditt ‘your.M/F/N’}), and 3rd person reflexive possessives (\textit{sin, si, sitt ‘his, her, their’}). The traditional three-gender distinction is illustrated in 4 for the 1st person singular forms.

(4) a. min bil — bilen min
    my.M car — car.DEF my

b. mi dame — dama mi
    my.F lady — lady.DEF my

c. mitt hus — huset mitt
    my.N house — house.DEF my

A somewhat different pattern is reported for Western Oslo: According to Lødrup 2011b, feminine forms such as \textit{mi ‘my’} are not used in prenominal position, as in 5a, but they are retained in postnominal possessives, illustrated in 5b. Importantly, postnominal \textit{mi} as well as \textit{di} and \textit{si} forms can only appear immediately adjacent to an overt noun with the (traditionally feminine) definite suffix -\textit{a}.

(5) a. min/*mi bok
    my.M/my.F book

b. boka mi
    book.DEF my
    ‘my book’

Lødrup (2011b) argues that the -\textit{a} and \textit{mi/di/si} forms in postnominal possessives in Western Oslo have no relation to feminine gender. According to Lødrup, they are bound morphemes that are not constrained through agreement. To explain these properties of postnominal possessives, Lødrup (2011b) proposes an analysis of the postnominal
possessive as a suffix. A similar proposal is found in Trosterud 2001 and Conzett et al. 2011. According to the suffix analysis, the postnominal mi as well as di and si are not feminine gender forms, but suffixes that reflect the declension properties of the preceding noun. Thus, Western Oslo has suffixal possessives that express declension class and appear obligatorily adjacent to the definite-marked noun.

However, there are several problematic issues with the suffix analysis. For example, Lødrup (2011b) notes that the postnominal possessor can scope over coordination, as in 6a, and can be elided, as in 6b (in the latter case, the second possessive will have to appear in the masculine/common form, as it is not adjacent to a definite -a suffix). This behavior is unexpected if the postnominal possessive is a suffix.

(6) a. buksa (mi) og lua mi
   pants.DEF my and hat.DEF my
   ‘my pants and (my) hat’ (Lødrup 2011a:128)

   b. den nye lua di og den gamle min
      the new hat.DEF your and the old my
      ‘your new hat and my old one’ (Lødrup 2011a:125)

Furthermore, Svenonius (2017) points out another problematic issue: The suffix account assumes that the declension class feature should be percolated through the definite suffix and surface on the postnominal possessive, as “there is no particular reason that an affix selecting for a class … should itself behave like a class … for purposes of other allomorphy” (p. 353). As an alternative, he proposes that in two-gender dialects such as Western Oslo, mi, di, and si are allomorphs that are conditioned by the phonological context of the immediately preceding vowel within a prosodic phrase. This proposal is motivated by a broad range of empirical data from other languages. For example, the nominal conjunction in Korean and the Spanish definite article are among many cases of class-based allomorphy within words and across word boundaries. The Spanish example in 7 demonstrates that the definite article immediately preceding a feminine noun starting with a stressed /a/ has the form el typical of masculine nouns and not la used with feminines. In other words, the definite singular el is not an exponent of gender, but an example of allomorphy conditioned by the phonological
context. The feminine gender of the noun *agua* ‘water’ is expressed on the postnominal adjective *fría* ‘cold’. Thus, the distribution of the prenominal article in Spanish appears to be sensitive to a phonological property of the left edge of the noun.

(7) el/*la agua fría  
the water(F) cold.F  
‘the cold water’  
(adapted from Svenonius 2017:337)

Similarly, Norwegian forms such as *boka mi* ‘my book’ are argued to be cases of class-based allomorphy occurring postnominally. In other words, the use of *mi, di,* and *si* forms after nouns ending in the definite singular suffix -*a* is the result of a process of phonological selection that requires locality of the conditioning environment. Since being vowel-final is a phonetically realized property, it can be visible across a word boundary. This contextual allomorphy account predicts that two-gender dialects should allow forms such as *boka mi* ‘my book’ for previously feminine nouns, as well as *boken min* lit. ‘book.DEF my’, but not the combinations *boka min* or *boken mi.*

3. The Present Study: Research Questions and Methodology.

3.1. Research Questions and Predictions.

The main goal of the present study is to investigate whether the low use of feminine indefinite *ei* in younger speakers of the Tromsø dialect attested in Rodina & Westergaard 2015 indicates loss of the feminine gender or whether it simply reflects the disappearance of the feminine form *ei,* resulting in more extensive syncretism in the paradigm (see table 1). To answer this question, it is necessary to consider speaker preferences across several unambiguously feminine forms. As mentioned above, the number of such forms in the (traditional three-gender) Tromsø dialect is limited, and feminine is generally only expressed on the indefinite article *ei* and the possessive forms *mi* ‘my’, *di* ‘your’, and *si* ‘her, his, their’. If the feminine gender is indeed disappearing, then the pattern of use of these forms should be similar and infrequent in younger speakers. More specifically, we predict that preschoolers, school-aged children, and adolescents will use the feminine gender forms *ei* and *mi* less than 50% of the time, and that these forms will be replaced by masculine *en* and *min.* In contrast, corresponding to the findings in
Rodina & Westergaard 2015, adults are predicted to use *ei* and *mi* consistently.

The study also investigates the status of the declension system of traditionally feminine nouns in the Tromsø dialect. Previous research suggests that the singular definite suffix `-a` is generally not affected by the loss of the feminine gender (see Lødrup 2011 for the Oslo dialect, Conzett et al. 2011 for Northern Troms and Rodina & Westergaard 2015 for the Tromsø dialect). It can thus be predicted that the definite `-a` forms will remain in use across all participant groups. At the same time, more recent studies have found that the declension system may be undergoing a change as well (Busterud et al. 2019, Lundquist & Vangsnes 2018), although to a considerably lesser extent, which may indicate that it is a separate development. Thus, there is a possibility that the `-a` forms on previously feminine nouns are beginning to be replaced by `-en` in the Tromsø dialect.

Similarly, for the postnominal possessives we predict that the feminine form *mi* will be used more or less consistently across all participant groups, and that this will be a direct result of the stability of the `-a` form. Thus, we generally expect to find the pattern *boka mi* ‘book.DEF my’. It is also possible that the `-en min` pattern (as in *boken min*) may be found with previously feminine nouns to some extent in younger speakers. However, the patterns `-a min` (*boka min*) and `-en mi` (*boken mi*), violating contextual allomorphy, should not be found. The predictions for the study are summarized in 8 and table 2.

(8) a. The indefinite article *ei* and prenominal possessive *mi* will be used infrequently or not at all with traditionally feminine nouns by preschoolers and school-aged children, but they will be used approximately 50% of the time by adolescents.

b. In younger speakers, the indefinite article *ei* and prenominal possessive *mi* will be replaced by masculine *en* and *min*, respectively.

c. The indefinite article *ei* and prenominal possessive *mi* will be used consistently by adults.
d. The -a forms will be used by all participant groups in the definite singular and double definite forms (as in den boka ‘that book.DEF’). The -en forms may be used to some extent by younger speakers.

e. The -a mi pattern will be used more or less consistently by all participant groups.

f. The -en min pattern may occasionally be found with historically feminine nouns in younger speakers.

g. The -en mi and -a min patterns should be unattested.

| Indefinite article | Definite article | Prenominal possessive | Postnominal possessive |
|--------------------|------------------|-----------------------|------------------------|
| en bok ‘a book’    | ?boken ‘the book’| min bok ‘my book’     | boka mi ‘my book’      |
| (younger speakers) | (younger speakers)| (younger speakers)    | (all ages)             |
| ei bok ‘a book’    | boka ‘the book’  | mi bok ‘my book’      | ?boken min ‘my book’   |
| (adults)           | (all ages)       | (adults)              | (younger speakers)     |
|                    |                  |                       | *boken mi              |
|                    |                  |                       | *boka min              |

Table 2. Predictions for the use of indefinite, definite, and possessive forms with previously feminine nouns by speakers of the Tromsø dialect.

If these predictions are borne out, it will be possible to conclude that the feminine gender is being lost in the Tromsø dialect, as with the disappearance of both the feminine indefinite article and the corresponding possessives there will no longer be any productive forms distinguishing the feminine from the masculine gender.

3.2. Participants, Stimuli, and Procedure.
To allow comparison with the data in Rodina & Westergaard 2015, we have investigated the use of ei and mi forms in five age groups as specified in table 3: preschoolers, school-aged children in grades 2 and 7, adolescents, and adults. The child participants and adolescents were born
in Tromsø and grew up acquiring the local dialect. Some of them had also been exposed to other Norwegian dialects at home. The adult participants were all born in Tromsø and had lived there most of their lives. They were employees at UiT The Arctic University of Norway but had no background in linguistics. It should be noted that the participants in group 4 in the present sample are somewhat younger than the ones in Rodina & Westergaard 2015, that is, 16 versus 18 years of age. This means that participants in this group more or less correspond to the 7th graders in group 3 in Rodina & Westergaard 2015, as our participants in group 4 were around 12 years old in 2014.

| Group description                              | Number | Age range | Mean age |
|-----------------------------------------------|--------|-----------|----------|
| Group 1: Pre-school children                  | 13     | 3;7–5;9   | 4;10     |
| Group 2: Elementary school children (grade 2)  | 14     | 7;6–8;1   | 7;10     |
| Group 3: Elementary school children (grade 7)  | 15     | 11;10–12;9| 12;3     |
| Group 4: Upper secondary school students       | 20     | 16        | 16       |
| Group 5: Adults                                | 15     | 32-67     | 50       |

Table 3. Age of participants in years;months for groups 1, 2 & 3 and in years for groups 4 & 5.

We conducted two elicited production experiments. Experiment 1 elicited indefinite and double definite forms and was nearly identical to experiment 1 in Rodina & Westergaard 2015, using the same (or similar) lexical items and the same procedure. The only difference was that the number of feminine nouns was increased from eight to twelve, and the number of masculine and neuter nouns was decreased from eight to six in the present study. The procedure is shown in 9. Experiment 2 elicited prenominal and postnominal possessives (in a contrastive and neutral context, respectively; see section 2.3), as illustrated in 10.
(9) Experiment 1: Indefinite and double definite DPs
(Pictures of a yellow and a red car shown simultaneously on the screen)

Experimenter: Dette kalle vi for bil. Ka ser du?
This we call car. What do you see?

Expected response 1: En gul bil og en rød bil
a.M yellow car(M) and a.M red car(M)
‘a yellow car and a red car’

(The red car disappears—picture of a yellow car remains)

Experimenter: Ka som forsvant?
What disappeared?

Expected response 2: den røde bilen
the.M red car.DEF(M)
‘the red car’

(10) Experiment 2: Pre- and postnominal possessives
(Pictures of a yellow and a red car shown simultaneously on the screen; an imaginary cartoon character called Bert Bert is shown next to the yellow car)

Experimenter: Hans bil er gul. Ka med deg?
His car is yellow. What about you?

Expected response 1: Min bil er rød.
my.M car(M) is red
‘My car is red.’

(The picture of the red car belonging to the participant is now shown alone on the screen. Then it disappears.)

Experimenter: Ka skjedde?
What happened?

Expected response 2: Bilen min forsvant.
car.DEF(M) my.M disappeared
‘My car disappeared.’

The lead-in statement in both tasks was carefully chosen in order not to reveal the gender of the target noun. The stimuli in both experiments consisted of the same 24 nouns: six masculine, twelve feminine (six ending in a consonant and six so-called weak feminines ending in -e, see section 2.1), and six neuter nouns. The masculine and neuter nouns were used as fillers and are not included in the analysis. The nouns were presented in a randomized order, which was also different in the two tasks. The materials were a series of colored pictures showing various objects depicting the target nouns. The pictures were presented on a laptop computer and all responses were audio-recorded. A training session using plural nouns whose agreeing forms do not show gender (for instance, blå/mine ballonger ‘blue.PL/my.PL balloons’) preceded both experiments.

The experiments were carried out by two investigators, a native speaker of Norwegian working as a research assistant and an advanced second language speaker of Norwegian (the first author of this paper). Experiment 1 was always conducted first. The experiments with the children and adolescents were conducted in daycare centers and schools, individually in a quiet room. The experiments with the adults were conducted individually at UiT The Arctic University of Norway. The adult speakers were told that the purpose of the task was to compare child and adult ability to describe objects. This was done in order to ensure that they were not conscious of the grammatical phenomenon tested.

The recordings were transcribed by two research assistants who are native speakers of Norwegian. From experiment 1, we included indefinite and suffixed definite forms. From experiment 2, we included the prenominal possessor and a combination of the suffixed definite article with a postnominal possessor. While two responses per test item were expected with indefinites, only one response was expected in all other conditions. In order to have a homogeneous sample, only the first response with indefinites was included in the analysis. All lexical substitutions, for example, andekylling ‘duckling’ instead of and ‘duck’, were excluded from the analysis. Occasionally, the target noun was missing in constructions with indefinite and double definite forms, as shown in 11.
(11) a. et grønt og et gult
   a.N green.N and a.N yellow.N
   ‘a green house and a yellow one’

b. et grønt hus — det grønne
   a.N green.N house(N) the.DEF.N green.PL
   ‘a green house—the green one.’

Such responses are perfectly grammatical and were included in the counts as they do contain the relevant gender information.

4. Results.
In what follows, the results are presented for the feminine nouns only. A generalized linear mixed effects model analysis was performed using the lme4 and lsmeans packages in R (Bates et al. 2015). Section 4.1 compares the use of the feminine indefinite article ei and the feminine possessive mi in prenominal position. Section 4.2 presents the results for the suffixed definite forms and postnominal possessors and provides a comparison of the status of feminine nouns in the present data with the data in Rodina & Westergaard 2015.

4.1. Indefinite Articles and Prenominal Possessors.
Figure 1 shows the use of feminine indefinite ei and the prenominal possessor mi across the five participant groups. The group comparison within each condition reveals that groups 1, 2, 3, and 4 use feminine ei and mi forms significantly less than group 5 (p<0.001 for all age groups with group 5 as Intercept). Furthermore, pairwise comparison of ei and mi forms within each group reveals no differences in groups 1, 2, 4, and 5 (p>0.4 for all age groups). In group 3, the use of feminine indefinite ei is found to be significantly higher than the use of prenominal mi (p=0.03).

Masculine nouns are 100% error-free in all participant groups, while neuter nouns are error-free in groups 2–5. The preschoolers in group 1 produce 14% (7/49) non-target-consistent forms with the neuter nouns, in all cases overgeneralizing the masculine indefinite article en. These results generally correspond with the findings in Rodina & Westergaard 2015.
Table 4 presents the individual speaker preferences for indefinite articles and prenominal possessors. The majority of children and adolescents in groups 1, 2, 3, and 4 use the masculine forms *en* and *min* exclusively (altogether 48/62 and 51/62, respectively). Nevertheless, the results for indefinite *ei* and prenominal *mi* are considerably higher in groups 3 and 4 than in groups 1 and 2. A detailed examination of the individual speaker data in group 3 reveals that four speakers are responsible for the use of *ei* (29%, 39/134) and five speakers are responsible for the use of prenominal *mi* (16%, 28/175). However, only two of them can be called productive users of feminine *ei* and *mi*, as only these two speakers use these feminine forms predominantly. One of them produces *ei* with 10 out of 12 nouns and *mi* with 8 out of 9 nouns. The other speaker produces *ei* with 11 out of 11 nouns and *mi* with 11 out of 12 nouns. In group 4, seven participants use *ei* (19%, 21/113) and four participants use *mi* (25%, 24/96). However, only one speaker in group 4 uses the two feminine forms productively. This speaker produces *ei* with 12 out of 12 nouns and *mi* with 9 out of 10 nouns. In sum, despite the fact that the two feminine forms occur between 16% and 29% in younger speakers from groups 3 and 4, only three out of 35 speakers in these groups use them predominantly and productively.

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6 Recall that 12 traditionally feminine nouns were used in experiments 1 and 2. However, the actual number of responses included in the analysis was not always 12 per participant, due to some null and irrelevant answers.
Table 4. The indefinite articles *ei*(F)/*en*(M) and prenominal possessors
*mi*(F)/*min*(M) with (traditionally) feminine nouns; N participants/Total.

Furthermore, the table also shows that in contrast to younger speakers,
nearly all of the adult speakers in group 5 use feminine forms exclusively
(13/15 for *ei* and 10/15 for *mi*). There is one adult speaker who uses *en*
exclusively. The same speaker prefers to use the feminine form *mi* in
prenominal possessives. In sum, the speakers who use the feminine and
masculine forms interchangeably are a minority across all age groups.
Younger speakers in groups 1, 2, 3, and 4 show a preference for *en* and
*mi*

4.2. Definite DPs and Postnominal Possessors.
The use of the feminine forms of the definite suffix and postnominal
possessors is illustrated in figure 2. All participant groups behave
similarly in that they use the expected -*a* and -*a mi* forms between 85%
and 100% of the time. The forms attributed to masculine nouns (that is, -
*en* and -*en min*) occasionally occur in groups 1, 2, 3, and 4, as the
definite suffix -*en* is used between 2% and 12% of the time by 17/62 of
these younger speakers, while the postnominal -*en min* form is used
between 2% and 15% by 12/62 speakers. A detailed analysis of the -*en*
and -*en min* forms reveals that they have the same overall frequencies in
younger speakers (groups 1–4). Definite -*en* occurs 6% (37/605) of the
time in the production of 16 different speakers and -*en min* is used 6%
(36/625) of the time by 12 different speakers. Only 8 out of 62 younger
speakers use both forms interchangeably, but no one uses them
productively, that is, across all or nearly all test items. Nevertheless, all
12 test nouns are used with -en and -en min forms. The highest frequency of use is found for the noun sålpe ‘soap’, 20% (15/73).

The unexpected -a min form of postnominal possessives is found only three times in the data of two participants in groups 1 and 3. This is illustrated in the examples in 12. Nevertheless, these participants behave like other younger speakers of the Tromsø dialect in that they use en and min prenominally, but -a and -a mi postnominally with previously feminine nouns. The combination -en mi is unattested.

(12) a. dørə min ble borte  (D11 5;9)
    door(F) my disappeared

    b. vogna min ble borte  (S06 12;7)
    pram(F) my disappeared

Figure 3 reflects the state of the Tromsø dialect in 2015 and at present. It compares the current data with the data on the use of indefinite ei and suffixed definite -a from the Rodina & Westergaard 2015 study.
Figure 3. The use of the indefinite article *ei* and suffixed definite article *-a* with (traditionally) feminine nouns in 2015 and 2018.

It is clear that the use of the suffixed definite article *-a* with feminine nouns remains intact and stable across all participant groups in both studies. The status of indefinite feminine *ei* is also unchanged in the adult participants. Furthermore, the child participants (groups 1–3) show a clear preference for masculine *en* in both studies. The major difference between the two studies appears in the data from the adolescents in group 4, where the percentage of *ei* reduces from 56% in Rodina & Westergaard 2015 to only 19% in the present data sample. Recall from section 3.2 that the adolescent participants in the present sample are somewhat younger than the ones in Rodina & Westergaard 2015, that is, 16 versus 18, and thus correspond more closely to the 7th graders in group 3 in Rodina & Westergaard 2015, who only produced *ei* 7% of the time.

5. Discussion.
In section 3.1, we posed a number of research questions and identified seven predictions for the current study, repeated in 13 for convenience.

(13) a. The indefinite article *ei* and prenominal possessive *mi* will be used infrequently or not at all with traditionally feminine nouns by preschoolers and school-aged children, but they will be used approximately 50% of the time by adolescents.
b. In younger speakers, the indefinite article *ei* and prenominal possessive *mi* will be replaced by masculine *en* and *min*, respectively.

c. The indefinite article *ei* and prenominal possessive *mi* will be used consistently by adults.

d. The `-a` forms will be used by all participant groups in the definite singular and double definite forms (as in *den boka* ‘that book.DEF’). The `-en` forms may be used to some extent by younger speakers.

e. The `-a mi` pattern will be used more or less consistently by all participant groups.

f. The `-en min` pattern may occasionally be found with historically feminine nouns in younger speakers.

g. The `-en mi` and `-a min` patterns should be unattested.

The results from both experiment 1 and experiment 2 confirm that there is an ongoing change in the gender system of the Tromsø dialect, since both unambiguously feminine forms, the indefinite article *ei* and the prenominal possessive *mi*, are highly infrequent in young speakers (3–16-year-olds, groups 1–4). The use of these feminine forms does not exceed 30% (see figure 1); instead, they are replaced by masculine *en* and *min*, respectively. We can thus conclude that the masculine–feminine–neuter system has been replaced by a common–neuter system in younger speakers born in 2000 and later. At the same time, the use of feminine *ei* and *mi* forms remains stable in the older speakers, aged 32–67. Thus, predictions 13a–c are borne out.

The new results for the indefinite article *ei* are also a close match with those reported in 2015 (see figure 3), except for group 4: The use of *ei* in 18-year-olds reported in 2015 was 56% and differed significantly from the use in other younger children (groups 1–3) as well as adults. In contrast, the 16-year-olds in group 4 in the present study show a similar pattern to all other younger speakers. As mentioned above, these speakers belong to the generation of speakers who were approximately age 12 in 2014, and thus correspond to group 3 in Rodina & Westergaard
2015. It is clear in figure 3 that *ei* continues to be a dispreferred form for these speakers in 2018. Nevertheless, there is a certain amount of individual variation among younger speakers in the present study: While none of them uses *ei* and prenominal *mi* consistently with all test items, 12 out of 62 speakers sometimes use *ei/en* and *mi/min* interchangeably (see table 4).

In contrast, the use of the suffixed definite article *-a* and postnominal possessive *mi* with traditionally feminine nouns is stable across all participant groups in the present study (see figure 2). Adults (group 5) use these forms exclusively, and children and adolescents (groups 1–4) use them predominantly. Thus, both predictions 13d and 13e are borne out, since only a small number of younger speakers (8/62) occasionally allow *-en* and *-en min* forms with previously feminine nouns. None of these speakers use these forms productively. It is not clear whether the results for suffixed definite *-en* are different from the findings in Oslo (see Lundquist & Vangsnes 2018), where 10 out of 33 adolescents (17–18-year-olds) used *-en* with the feminines consistently and three switched between *-a* and *-en*. In Trondheim, the argument for the incipient change in the declension system is mainly based on the results from preschoolers and adults who use *-en 23% and 13% of the time*, respectively. In the present study, *-en* is used by the preschoolers 11% of the time, and it is not attested at all in the adult production. In the remaining age groups, groups 2–4, the use of *-en* is observed 12%, 2%, and 10% of the time, respectively.

Thus, there does not seem to be sufficient evidence to argue for a change in the declension system in the Tromsø dialect. Furthermore, if there is an ongoing change in the declension system of traditionally feminine nouns, it is probably a separate development, as it clearly does not go hand in hand with the change in the gender system. Finally, the results from the postnominal possessives seem to support the contextual allomorphy account proposed by Svenonius 2017. The striking discrepancy between prenominal *min + N (Noun)* and postnominal *N-a mi* forms suggests that postnominal *mi* is not an exponent of gender, but instead an allomorph selected under strict adjacency with the definite suffix *-a*. In other words, postnominal *mi* is used productively in the two-gender system of the Tromsø dialect, as it is conditioned by the phonology of the preceding vowel within a prosodic phrase, the definite suffix *-a*. The allomorphy account correctly predicts that *-en mi* and *-a*
patterns are (virtually) unattested in the two-gender system (see prediction 13g). In the new gender system, previously feminine nouns occur with masculine gender markers, as in 14a,b, but with declension suffixes of traditionally feminine nouns, as in 14c,d.

(14) a. en gul dør  
a.M yellow door(F)  
‘a yellow door’  

b. min dør er gul  
my.M door(F) is yellow  
‘My door is yellow.’  

c. den gule døra  
that.M yellow door.DEF  
‘that yellow door’  

d. døra mi ble borte  
door.DEF my disappeared  
‘My door disappeared.’

Based on the results of the present study, we conclude that speakers of the Tromsø dialect born in 2000 and later have a two-gender system consisting of common and neuter gender.

6. Summary and Conclusion.
The present study has investigated the status of feminine gender in the Tromsø dialect of Norwegian. Previous research (Rodina & Westergaard 2015) has attested a change in the use of the feminine indefinite article ei, showing that it is increasingly replaced by the masculine form en in younger speakers. Based on this, it has been argued that the traditional three-gender system (masculine, feminine, neuter) is developing into a two-gender system (common and neuter). However, this could in principle be an extension of the massive syncretism that exists between feminine and masculine gender forms in Norwegian and not necessarily constitute a loss of feminine gender.

To resolve this issue, we have carried out two experiments comparing the use of the indefinite article with the only other forms that unambiguously mark feminine in the traditional three-gender system,
that is, the (pre- and postnominal) possessives. The findings show that the frequency of the feminine forms of the prenominal possessive is as low as that of the indefinites in the production of children and adolescents, confirming previous claims that the Tromsø dialect is developing into a two-gender system. Furthermore, the production of the definite suffix -a with traditionally feminine nouns remains stable, as in previous research, strengthening the claim that definite suffixes are not exponents of gender, but rather declension class markers. Finally, the postnominal possessive also retains the traditionally feminine form, in sharp contrast to the prenominal possessive, supporting an account of postnominal possessives not as gender markers but as allomorphs that are conditioned by the phonological context of the immediately preceding vowel within the prosodic phrase, that is, the definite suffix -a.

REFERENCES

Anderssen, Merete. 2006. The acquisition of compositional definiteness. Tromsø, Norway: University of Tromsø dissertation.
Anderssen, Merete, & Marit Westergaard. 2010. Frequency and economy in the acquisition of variable word order. Lingua 120. 2569–2588.
Audring, Jenny. 2014. Gender as a complex feature. Language Sciences 43. 5–17.
Bates, Douglas, Martin Mächler, Ben Bolker, & Steve Walker. 2015. Fitting linear mixed-effects models using lme4. Journal of Statistical Software 6. 1–48.
Busterud, Guro, Terje Lohndal, Yulia Rodina, & Marit Westergaard. 2019. The loss of feminine gender in Norwegian: A dialect comparison. Journal of Comparative Germanic Linguistics 22. 141–167.
Comrie, Bernard. 1999. Grammatical gender systems: A linguist’s assessment. Journal of Psycholinguistic Research 28. 457–466.
Conzett, Philipp, Åse Mette Johansen, & Hilde Sollid. 2011. Genus og substantivbøying i nordnorske språkkontaktområder [Grammatical gender and declension in language contact areas in North Norway]. Nordand Tidsskrift for andrespråksforskning 6.1. 35–71.
Corbett, Greville G. 1982. Gender in Russian: An account of gender specification and its relationship to declension. Russian Linguistics 6. 197–232.
Corbett, Greville G. 1991. Gender. Cambridge: Cambridge University Press.
Enger, Hans-Olav. 2004. On the relation between gender and declension: A diachronic perspective from Norwegian. Studies in Language 28. 51–82.
Faarlund, Jan Terje. 2019. The syntax of Mainland Scandinavian. Oxford: Oxford University Press.
Faarlund, Jan Terje, Svein Lie, & Kjell-Ivar Vannebo. 1997. Norsk referansegrammatikk [A reference grammar of Norwegian]. Oslo: Universitetsforlaget.

Fløgstad, Guro, & Eli Anne Eiesland. 2019. Gender shift in a Norwegian diminutive construction. Nordic Journal of Linguistics 42. 57–85.

Gagliardi, Annie. 2012. The fundamentals of language acquisition. College Park, MD: University of Maryland dissertation.

Hockett, Charles F. 1958. A course in modern linguistics. New York, NY: MacMillan.

Jahr, Ernst Håkon. 1998. Sociolinguistics in historical language contact: The Scandinavian languages and Low German during the Hanseatic period. Language change: Advances in historical sociolinguistics, ed. by Ernst Håkon Jahr, 119–139 Berlin: Mouton de Gruyter.

Jahr, Ernst Håkon. 2001. Historical sociolinguistics: The role of Low German language contact in the Scandinavian typological split of the late Middle Ages. Lingua Posnaniensis 43. 95–104.

Lohndal, Terje, & Marit Westergaard. 2016. Grammatical gender in American Norwegian heritage language: Stability or attrition? Frontiers in Psychology. https://doi.org/10.3389/fpsyg.2016.00344, March 16, 2016.

Lundquist, Björn, Yulia Rodina, Irina Sekerina, & Marit Westergaard. 2016. Gender change in Norwegian dialects: Comprehension precedes production. Linguistics Vanguard 2. 69–83.

Lundquist, Björn, & Øystein Vangsnes. 2018. Language separation in bidialectal speakers: Evidence from eye tracking. Frontiers in Psychology. https://doi.org/10.3389/fpsyg.2018.01394, August 20, 2018.

Lødrup, Helge. 2011a. Hvor mange genus er det i Oslo-dialekten? [How many genders are there in the Oslo dialect?]. Maal og Minne 2. 120–136.

Lødrup, Helge. 2011b. Norwegian possessive pronouns: Phrases, words or suffixes? Proceedings of the Lexical Functional Grammar conference (LFG11), ed. by Miriam Butt & Tracy Holloway King, 339–359. Stanford, CA: CSLI.

Opsahl, Toril. 2009. “Egentlig alle kan bidra!” En samling sosiolingvistiske studier av strukturelle trekk ved norsk i multietsiske ungdomsmiljøer i Oslo. [“Actually everybody can contribute!” A collection of sociolinguistic studies of structural properties in the Norwegian spoken by young people in multiethnic communities in Oslo]. Oslo, Norway: University of Oslo dissertation.

Opsahl, Toril. 2017. “Ei lita tur”—feminin renessanse? I teneste for nynorsken. Heiderskrift til Olaf Almenningen 70 år, ed. by Knut E. Karlsen, Dagfinn Rødningen, & Håvard Tangen, 131–144. Oslo: Novus.
Rodina, Yulia, & Marit Westergaard. 2013a. The acquisition of gender and declension class in a non-transparent system: Monolinguals and bilinguals. *Studia Linguistica* 67. 47–67.

Rodina, Yulia, & Marit Westergaard. 2013b. Two gender systems in one mind: The acquisition of grammatical gender in Norwegian-Russian bilinguals. *Multilingualism and language diversity in urban areas: Acquisition, identities, space, education (Hamburg Studies on Linguistic Diversity 1)*, ed. by Peter Siemund, Ingrid Gogolin, Monika Edith Schulz, & Julia Davydova, 95–126, Amsterdam: John Benjamins.

Rodina, Yulia, & Marit Westergaard. 2015. Grammatical gender in Norwegian: Language acquisition and language change. *Journal of Germanic Linguistics* 27. 145–187.

Stabell, Kristine M. 2016. “Vi sir aldri ei”. En studie av femininum i altadialekten [“We never say ei”: A study of feminine gender in the Alta dialect]. Stavanger, Norway: University of Stavanger MA thesis.

Svenonius, Peter. 2017. Declension class and the Norwegian definite suffix. *The morphosyntax–phonology connection*, ed. by Vera Gribanova & Stephanie S. Shih, 325–359. Oxford: Oxford University Press.

Taeldeman, Johan. 2005. The influence of urban centres on the spatial diffusion of dialect phenomena. *Dialect change: Convergence and divergence in European languages*, ed. by Peter Auer, Frans Hinskens, & Paul Kerswill, 263–284. Cambridge: Cambridge University Press.

Torp, Arne. 2005. The Nordic languages in the 19th century. *Nordic languages. An international handbook of the history of the North Germanic languages*, vol. 2, ed. by Oscar Bandle, Kurt Braunmüller, & Ernst Håkon Jahr, 1425–1436. Berlin: Walter de Gruyter.

Trøsterud, Trond. 2001. Genustilordning i norsk er regelstyrt [Gender in Norwegian is rule-based]. *Norsk Lingvistisk Tidsskrift* 19. 29–57.

Trudgill, Peter. 1974. Linguistic change and diffusion: Description and explanation in sociolinguistic geography. *Language in Society* 1. 179–195.

Trudgill, Peter. 1983. *On dialect: Social and geographical perspectives*. Oxford: Blackwell.

Trudgill, Peter. 2013. Gender maintenance and loss in Totenmålet, English, and other major Germanic varieties. *In search of Universal Grammar: From Old Norse to Zoque*, ed. by Terje Lohndal, 77–107. Amsterdam: John Benjamins.

Urek, Olga, Terje Lohndal, & Marit Westergaard. Forthcoming. En splyv eller et splyv? Tilordning av grammatisk genus til nonord-substantiv i norsk. *Norsk Lingvistisk Tidsskrift*.

Vandekerckhove, Reinhold. 2009. Urban and rural language. *Language and Space: An international handbook of linguistic variation*, ed. by Peter Auer & Jürgen Erich Smith, 315–332. Berlin: Mouton de Gruyter.
Wechsler, Stephen, & Larisa Zlatić. 2000. A theory of agreement and its application to Serbo-Croatian. *Language* 76. 799–832.

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