

Germanic Heritage Languages in North America

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Volume 18

Germanic Heritage Languages in North America
Acquisition, attrition and change

Edited by Janne Bondi Johannessen and Joseph C. Salmons

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The study of Germanic heritage languages in the Americas

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1. Introduction*

This volume grows from recent collaboration among a group of scholars working on Germanic immigrant languages spoken in North America, initially faculty and students working on German dialects and Norwegian, and steadily expanding since to cover the family more broadly. More structured cooperation began with a small workshop at the University of Wisconsin–Madison in 2010 and continued with larger workshops sponsored in turn by the University of Oslo, Pennsylvania State University, University of Iceland, and University of California, Los Angeles.¹ The volume you're reading is the first group publication in English (though see Johannessen and Salmons 2012 for a collection of papers on and written in Norwegian), and several others are in preparation. Most of the papers included in this volume have grown from the ongoing set of international workshops just sketched. These were started by the co-editors, led initially by the first co-editor, a trajectory reflected in the relatively heavy representation of work on Norwegian. A number of the chapters have been developed specifically from these networks and ongoing dialogues about heritage languages.

This introduction has three simple aims, namely to provide for this volume: (1) the scholarly context, in terms of traditional work on Germanic immigrant languages in North America, (2) an overview of how we see the contributions cohering around the themes in our subtitle, and (3) some basic, brief background on the languages under discussion.

* The work was partly supported by the Research Council of Norway through its Centres of Excellence funding scheme, project number 223265, and through its funding of the project NorAmDiaSyn, project number 218878, under the BILATGRUNN/FRIHUM scheme.

1. Programs from the four workshops held to date are available here: <http://tekstlab.uio.no/WILA5/index.html>

2. Immigrant languages and heritage languages

Work on immigrant languages in North America, Germanic and otherwise, has a long and rich history, including work by important figures in the broader field of linguistics, including Einar Haugen, Max and Uriel Weinreich and more recently Joshua Fishman. The figures just named, widely cited to this day, played tremendous roles in understanding both the effect of language contact in such bilingual settings and the way languages have been maintained or populations have shifted to English. But aside from the work of a few such giants, until recently research on immigrant languages in North America has overwhelmingly been very local, often focused on identifying dialect patterns and possible ‘base dialects’ or cataloguing examples of contact. Today, the context has been transformed, thanks to strong connections to synchronic linguistic theory (notably Putnam 2011 for German varieties), as well as to language contact studies, sociolinguistics and historical linguistics (see the references to virtually any chapter in this book).

In the aftermath of immigration, new generations often speak “heritage languages,” a recent notion that Rothman (2009: 159) defines this way: “A language qualifies as a heritage language if it is a language spoken at home or otherwise readily available to young children, and crucially this language is not a dominant language of the larger (national) society.” Under this and similar definitions, the immigrant languages we treat here are clearly ‘heritage languages.’ Heritage languages have only recently become a major topic of interest among linguists (as noted by Polinsky and Kagan 2007), explored for their implications for linguistic theory, especially in terms of acquisition, attrition and change. Still, the current wave of work is new enough that little comparative research has been undertaken. In that regard in particular, we hope to advance both more traditional work on immigrant languages and the still emerging ‘heritage language’ linguistics.

3. Acquisition, attrition and change

This book presents a wide range of new empirical findings about heritage languages, focused on varieties of Germanic languages spoken in the North American context. Theoretically, the volume coheres by a focus on the critical issues that underlie the notion of ‘heritage language’: acquisition, attrition and change. Specifically, much research on heritage languages has debated the role of ‘incomplete acquisition’ versus ‘attrition,’ within the broader context of the psycholinguistics and sociolinguistics of bilingualism, along with the effects of language contact (see Grosjean 2008, Montrul 2008, Polinsky and Kagan 2007, Rothman 2009).

The basic idea behind this volume is twofold. First we provide theoretically-informed discussion of heritage language processes across a range of subfields – traditional ‘modules’ of grammar, plus sociolinguistic and historical and contact settings. Second, we provide relatively broad coverage of Germanic languages in North America

in a variety of different settings. Theoretically, the volume includes a wide variety of frameworks and approaches, spanning synchronic and diachronic studies, acoustic phonetics, corpus-oriented work, and language-contact theoretic work. Papers cover a variety of subfields, including phonetics-phonology, morphology and syntax, the lexicon, and sociolinguistics. Empirically, chapters cover a broad range of Germanic varieties spoken in North America: Dutch, German, Pennsylvania Dutch, Icelandic, Norwegian, Swedish, Yiddish, and West Frisian, along with attention to varieties of English spoken by heritage speakers and communities after language shift.

Despite some notable exceptions, as already hinted at above, a major shortcoming of traditional work on heritage languages is that work on a given community has been done all too often in isolation from related work on other languages and sometimes with little regard for goals beyond documenting a local variety. This volume collects work that moves past precisely these two boundaries. We have worked to provide close coordination, sharing of drafts and open discussion to build on the foundation created by the workshops. We trust that this has helped create a more comparative perspective built by specialists in each relevant language and creating a more cohesive volume than is typical for edited volumes.

We will forgo here the usual summaries of each chapter, instead providing a brief discussion of how they address the themes in our subtitle (i.e., acquisition, attrition and change). To the last first, every contribution to the volume deals pretty directly with linguistic change over time.

The two chapters by Westergaard and Anderssen and by Johannessen both see attrition in the context of acquisition, while Arnbjörnsdóttir focuses more singularly on the attrition and change perspective. **Westergaard and Anderssen** directly address acquisition – comparing child language acquisition patterns with patterns of use found in American Norwegian and with an eye to attrition as well. The data are discussed in terms of general concepts such as frequency and complexity, and the authors suggest that while complexity is more important in acquisition, high frequency of a construction protects against attrition. **Johannessen's** case study of attrition in one speaker of American Norwegian compares the degree of apparent attrition with the steps of acquisition. **Arnbjörnsdóttir** takes stock of a language long understudied as an immigrant language, but to which tremendous attention is now being devoted. Her main ambition is to identify different patterns of attrition and change in American and European Icelandic.

The phonetics and phonology papers show two very different ways of approaching this field: Allen and Salmons use acoustic measurements, while Pierce et al. base their findings on descriptions and impressionistic interpretations of recordings, i.e., without acoustic analysis. **Allen and Salmons** document phonetic realizations of obstruents in English and Norwegian acoustically, thus also documenting a change that has occurred in the English language of the Norwegian heritage areas. **Pierce et al.** study the loss of rounding in front vowels in New Braunfels German and find that multiple factors brought about this change, all motivations widely accepted in historical linguistics.

The change in the morphosyntax of three different heritage languages is described differently in three papers. Brown and Putnam as well as Åfarli look to the principled grammatical system for explanations, while Kahan Newman assumes a pure borrowing approach. **Brown and Putnam** study an extension of the progressive aspect in Pennsylvania Dutch (also known as Pennsylvania German) which has gone beyond the range of the progressive in English. They use this change to document that convergence in language contact is not a simple one-to-one mapping between languages. **Åfarli** proposes a theoretical account for the fact that although English words are borrowed into American Norwegian, they are usually adapted to Norwegian grammar; they do not bring with them English morphosyntax. **Kahan Newman** finds changes in the syntax of Hassidic New York Yiddish to the effect that these varieties use less subject-verb inversion than expected. She attributes this to a movement towards the English word order norm.

Vocabulary change is assumed to be constrained by the human cognitive capacity in both Annear and Speth's chapter and in Eide and Hjelde's chapter, while Benor looks at changes in the vocabulary from the point of view of ethnic identity. Ehresmann and Bousquette, like Benor, argue that social factors account for their vocabulary findings. **Annear and Speth** examine the vocabulary of American Norwegian and discover that lexical convergence tends toward overlap in phonemic shape as well as semantics, reducing the cognitive load of the speakers. **Benor** studies changes in Yiddish-influenced English among American Jews. It turns out that there is not an ever smaller Yiddish substrate in English, but a boomerang effect, where some loanwords are increasing in use among American Jews. This is explained sociolinguistically, by speakers embracing their identity. **Ehresmann and Bousquette** focus on West Frisian in Wisconsin, and particularly on the frequency and linguistic integration of loanwords. The number of loanwords was relatively low in their corpus, and they were not well integrated. The authors argue that the social context of controlled bilingualism, as well as a multiple-lexicon coordinate bilingualism model, account for their findings. **Eide and Hjelde** describe the borrowing of a modal verb from English into Norwegian as typical of borrowings in contact situations, where modal expressions are often borrowed. The way it has been borrowed points toward convergence.

The final chapters treat variation and real-time change, where all but Lanza and Golden study their respective heritage languages in a comparative, chronological perspective. **Hjelde** deals with the development of phonology, morphology and vocabulary among American Norwegians in a small area of Wisconsin originally populated by immigrants with different Norwegian dialect backgrounds. He shows that the language of the youngest generation seems to have developed towards a common form, i.e., a koiné. **Johannessen and Laake** focus on vocabulary, morphology and syntax, asking whether American Norwegian is old-fashioned and whether it has changed toward a written standard. They compare their findings with the language found in a European Nordic dialect corpus and a written language corpus, and find that both questions must be answered negatively. **Lanza and Golden** focus on identity construction in

the presentation and positioning of self in social experiences related to migration, language learning and use and literacy among elderly third generation speakers of American Norwegian. Larsson, Tingsell and Andréasson investigate American Swedish and find that particularly in the vocabulary, there has been development towards a koiné. Many speakers nonetheless have features otherwise connected to second language acquisition, which they attribute to language acquisition rather than attrition. Smits and van Marle look for possible differences between American Dutch and Standard Dutch, using data from acceptability tests and recorded conversations. What they found was a reduced form of Dutch and speakers who were uncertain about the norms. Their spontaneous speech was closer to the standard than their grammar evaluations, possibly due to self-imposed restrictions when they were speaking.

4. Background on Germanic immigrant languages in North America

Because so much current work on Germanic immigrant languages, and heritage languages in the broader sense, has been insular (if that pun can be forgiven), we provide a simple comparative sketch here, some basic information on the languages treated in the present book, to set up the individual discussions that follow. The languages investigated in the volume come from both branches of Germanic spoken today, West Germanic – represented here by German, Pennsylvania Dutch, Yiddish, West Frisian, and Dutch – and North Germanic – represented by Norwegian, Swedish, and Icelandic.

First, consider some basic numbers reported by the US Census and the American Community Survey on languages spoken in the US (and we consciously restrict this discussion to the US for simplicity). The decennial census of the United States has long included questions about language use, though which languages were tallied and how they were defined vary widely by decade. For instance, no clear distinction is made in many cases between German and Pennsylvania Dutch, though the 2000 US Census did make the distinction. ‘Frisian’ was surely reported mostly by people who speak or spoke West Frisian, the indigenous language of the northern Netherlands, but there are also North Frisian (with great dialectal diversity) and East Frisian, not mutually intelligible with West Frisian. Moreover, the Census questions asked vary significantly, even aside from sampling (where language questions applied to foreign-born or the whole population, for instance). In 1910 and 1920, people were asked whether they could speak English and if they could not, the language spoken was reported for those over 10 years of age. This is tremendously valuable for tracking monolingualism (see Wilkerson and Salmons 2008 and 2012 for Germans in Wisconsin), though less so for tracking use in bilingual households. Waggoner (1981) lays out the basics for later years, with the 1940 question phrased in terms of the “language spoken in earliest childhood” while the 1970 question was “What language, other than English, was spoken in this person’s home when he was a child?” (Waggoner 1981:487). That change in

the relevant question is no doubt connected with the large jump in the 1970 numbers in Table 1. Keeping in mind the sometimes severe limits of census data (on which see especially Veltman 1983), they provide a first look at how widespread Germanic immigrant languages have been. The three tables below give snapshots from the Census and the most recent information from the American Community Survey (<http://www.census.gov/hhes/socdemo/language/> and related links on that site).

Table 1. Reported numbers of speakers over time (Census, data drawn from Fishman 1991:47).

Mother tongue	1940	1960 (est.)	1970	% Change 1940–70
Norwegian	81,160	–	204,822	152.37
Swedish	33,660	17,000	113,119	236.06
Danish	9,100	6,000	29,089	219.66
Dutch	65,800	74,000	102,777	56.20
German	518,780	383,000	1,460,130	181.45
Yiddish	52,980	39,000	170,174	221.20

Table 2. 2000 US Census, home language.

English only	215,423,555
German	1,382,615
Pennsylvania Dutch	83,720
Yiddish	178,945
Dutch	150,485
Afrikaans	16,010
Frisian	920
Luxembourgian	830
Swedish	67,655
Danish	33,395
Norwegian	55,465
Icelandic	5,660
Faroese	70

Table 3. American Community Survey 2011.

Population 5 years and over	
Spoke only English at home	230,947,071
German	1,083,637
Yiddish	160,968
Other West Germanic	290,461
Scandinavian languages	135,025

Even allowing for inaccuracies and inconsistencies across the surveys, these numbers reflect a highly dynamic situation. In part, these numbers will reflect the shift to English in long-settled immigrant communities, like many of those discussed in this volume, balanced against the arrivals of new immigrants.

Second, we supplement those numbers with an outline of some salient issues about each language:

- Period of immigration, size of migrant population
- Dialectal variation, koiné formation
- Institutional support and role of standard
- Basic community demographics, age of youngest speakers / robustness of transmission; language shift.²

These brief sections are simply arranged alphabetically.

4.1 Dutch³

Dutch immigration to North America came in two waves. The first, the First Immigration, relates to the founding of New Netherlands in the early 17th century. Dutch immigrants settled in the territory now part of New York and New Jersey. Dutch continued to be spoken in these areas for 300 years. However, all present-day Dutch-American communities are in the Midwest and date to the 19th century, the Second Immigration. The most important early Dutch settlements are Pella in Iowa, the Holland area in Michigan and the Waupun-Alto area in Wisconsin. All stem from the late 1840s. Nearly all were orthodox Calvinists. In the case of Iowa and Michigan, the Dutch settlers travelled to the US under the leadership of a minister. At the same time, a group of Roman Catholic immigrants went to Wisconsin, where they settled in the Little Chute area. They travelled under the leadership of a priest. According to Swierenga (2000), between 1835 and 1880 75,000–100,000 Dutch migrated to the US. The majority of the Protestants who went to Iowa came from the western parts of the Netherlands, while those who went to Michigan came from the eastern areas. The Roman Catholic immigrants came from the southern parts of the Netherlands. In the smaller settlements in Michigan and Wisconsin, the original dialects (eastern in the former case, eastern and southern in the latter) have been largely maintained for

2. The sections on German and Norwegian were written by the authors of this introduction while information and prose for the others were contributed by the following authors and then integrated into the paper by the editors: Jaap Van Marle on Dutch, Birna Arnbjörnsdóttir on Icelandic, Mike Putnam and Josh Brown on Pennsylvania Dutch, Ida Larsson on Swedish, Joshua Bousquette and Todd Ehresmann on West Frisian, Sarah Benor with assistance from Zelda Kahan Newman on Yiddish.

3. For a recent overview, see Krabbendam (2009).

a considerable period of time. In other cases, particularly in ‘mixed’ settlement areas including other immigrant groups, Dutch was given up more quickly.

Around the turn of the 20th century, a mixed ‘Yankee Dutch’ developed as a group code of the acculturating Dutch in American big cities such as Grand Rapids. In this mixed code, Dutch sounds and grammar were retained, whereas its word stock came to be heavily influenced by English. In Iowa, Dutch-Americans switched to the spoken standard language gradually developing in the Netherlands in the second half of the 19th century – a trend also found in the other Dutch settlements, if more sporadically.

The Dutch language was intimately linked to the Dutch Calvinist tradition. As a consequence, many immigrants felt a deep love for their native language and quite a few of the early immigrants refused to learn English. Also, in some churches Dutch was maintained relatively long and it was taught in many schools. In addition, there were many newspapers and other types of publications in Dutch. However, in the course of the 20th century, Dutch developed more and more into an informal, exclusively spoken in-group language. At present, only a handful of speakers are left, all in their eighties.

4.2 German⁴

German speakers may have been coming to North America since at least the Jamestown settlement in the early 17th century. Leaving aside the communities that came to speak Pennsylvania Dutch (on which see below), though, the roots of contemporary German-speaking communities typically go back to the 1830s or later, with some groups arriving after World War II. German speakers of course continue to come to the US and sometimes settle in established German communities. German speakers were the largest non-English speaking immigrant population among the Germanic languages; millions came, mostly before a German nation state was established in 1871. Particularly large populations settled across the entire Midwest, across the Great Plains and in Texas, but significant pockets exist or existed in the north-east and parts of the South. Essentially every dialect area is represented – just in Wisconsin, Swiss dialects, Rhenish and Low German dialects are still spoken, reaching from the southwestern part of German-speaking Europe through the west and on to the northeastern corner.

In various communities, *koinés* (in the sense of Kerswill 2002 or Kerswill and Trudgill 2005) began to form, and often reached significant degrees of leveling, though Nützel (2009) provides one striking example of a community where virtually

4. This immigrant group is too large and diverse to give a reasonable sketch. Indeed, many of the ‘German’ varieties spoken are not mutually intelligible with the standard language called ‘German’ and many speakers came from areas far from contemporary Germany, especially eastern Europe. See Gilbert (1971) and Salmons (1993) for some basics on the bigger picture, along with the myriad individual studies cited throughout this book.

no leveling took place in over a century and a half. The role of the standard likewise varied, from a full range of institutional support including German-medium schooling, so that standard-like German was learned and used, to settings where the standard was overwhelmingly absent. More uniform is the pattern of shift, where communities (aside from religious groups like Pennsylvania Dutch-speaking Old Order Anabaptists [again, see below] or Hutterites) have reached their last generation of native speakers, who are typically older than 60. A burgeoning literature seeks to understand language shift here in terms of a 'verticalization' model, i.e., a shift of control over local institutions to non-local powers (Frey 2013, Lucht manuscript, Salmons 2002, 2005a, 2005b, others).

4.3 Icelandic

The history of the Icelandic settlement in North America is somewhat unique in that the original immigrants came to the new world with the intention of forming a 'New Iceland'. 15,000 Icelanders (out of about 70,000 inhabitants at the time) are thought to have settled in the United States and Canada from 1873 to 1914 (Kristjánsson 1983). Icelanders settled mainly in the Canadian Interlake region north of Winnipeg in Manitoba and around Wynyard in Northern Saskatchewan, and in Pembina County in North Dakota in the United States, and more recently, on the West Coast of Canada and the United States.

The variety of Icelandic spoken in the Icelandic settlements of North America has few speakers under 60. The number of heritage speakers of Icelandic is not known, but according to the Canadian Census from 1986 14,470 persons in Canada as a whole claimed Icelandic ethnic origins and of those, 6,980 lived in Manitoba. Of the 6,980 in Manitoba, 305 claimed that Icelandic was their first language and 800 said that they had grown up with English and Icelandic as home languages. In 1986 there is a dramatic decline in numbers from previous censuses and in the Canadian census from 2006, only a little over 2000 individuals claimed that they spoke (North American) Icelandic.⁵

During the first decade in Canada the Icelandic settlers had their own government, laws, schools and newspapers. Many second and third generation North American Icelanders could read and write Icelandic. Travel to and from Iceland was almost non-existent from 1914 until 1975, when regular excursion flights began between Winnipeg and Iceland. Despite the physical isolation, the 'New Icelanders' kept abreast of current events in Iceland through their Icelandic newspapers and extensive letter writing. Yet the Icelanders had social mobility and from very early on had representatives in education, politics, business and medicine. Bilingualism and biculturalism were encouraged and this served North American Icelanders well.

5. <http://www76.statcan.gc.ca/stcsr/query.html?style=emp&andqt=Icelandic&andcharset=iso-8859-1&andqm=1>

The survival of the language is interesting as there has been no continuation of immigration after 1914 until recently, and thus not a constant influx of new immigrants to sustain the language. The North American Icelandic of those who learned the language ‘at their mother’s knee’ shows signs of influence from English in the lexicon, phonology, morphology and syntax as well as signs of attrition (Arnbjörnsdóttir 2006).

Recently, a new comprehensive multidisciplinary research project on North American Icelandic was launched with funding from the Icelandic Centre for Research. Its goal is to examine North American Icelandic as a heritage language from linguistic and cultural perspectives.

4.4 Norwegian

The first Norwegians arrived in New York in 1825, but it was not until some decades later that the number of immigrants really rose. By 1930, 810,000 had arrived in the US and 40,000 in Canada. No country except Ireland had a higher rate of emigration. Einar Haugen (1953: 29) writes that the 1800s was a century of huge population growth in Norway, and the number of immigrants equaled the 1800 population. Many immigrants came from agricultural and backgrounds, and chose the Midwest as their new homeland: Illinois, Iowa, Wisconsin, Minnesota and the Dakotas. New arrivals typically started with very little, and their first shelter was often reported to be a “lowly sod hut or the ramshackle log cabin” (Haugen 1953: 30). Even with this harsh start, Norwegians quickly built institutions that were important to them. They organized and built churches, hospitals, old peoples’ homes, and established Luther College (Decorah, Iowa) as early as in 1861, and St. Olaf College (Northfield, Minnesota) in 1875. There were Norwegian-language schools, and newspapers, such as *Decorah-Posten* and *Nordisk Tidende*.

All dialect groups were represented in the immigrant population, but they tended to engage in chain migration and settle together. According to Haugen (1953: 340), the first immigrants were from the Norwegian west coast county Rogaland, and later groups followed as news of prospects in America arrived. In 1850 large numbers came from the Norwegian east country and valley regions. Those from the east and the west had little contact with each other. Recent publications (Johannessen and Laake 2012, and forthcoming) show that mainly these eastern varieties are spoken today. It may even be true to say that a koiné has emerged, based on east Norwegian dialects. In 2010 a project supported by the Research Council of Norway was formed, with the documentation of the American Norwegian language as one of its goals. It turned out to be very difficult to find speakers with dialects from the Norwegian west coast area after 2010. Descendants of immigrants who settled before 1920 who speak Norwegian, are typically older than 70.

4.5 Pennsylvania Dutch

The Pennsylvania Dutch community traces its origins to central Europeans who immigrated to pre-Revolutionary America. By the end of the seventeenth century, William Penn and his fellow Quakers had founded their 'Holy Experiment' of Pennsylvania in the New World and welcomed their first group of German and Dutch immigrants (Mennonites). The group settled just outside of Philadelphia in Germantown and proclaimed Francis Daniel Pastorius its leader. Pastorius and Penn worked together to welcome new immigrants to cultivate the area. Thus began a 'great migration' to Pennsylvania, stretching from 1683 to 1775 (Louden 1988: 72). Estimates are that 81,000 immigrants settled the historic Pennsylvania Dutch region (Wokeck 1999). With them, the immigrants brought their own dialects, from which developed what is today known as Pennsylvania Dutch. Most scholars define Pennsylvania Dutch as a language which most closely resembles the varieties of the eastern Palatinate, but with some influence from Alemannic, other German dialects, and English (Haldeman 1870: 80, Buffington 1939: 276). There are three distinct groups of Pennsylvania Dutch: (1) nonsectarians, members of the Lutheran, Reformed, Schwenkfelder and related Protestant denominations, (2) sectarians, members of one of the Anabaptist groups, either Amish or Mennonite, and (3) the Moravians, often described as being somewhere (religiously and socially) between the sectarians and nonsectarians. Most research, following Huffines (1980), separates Pennsylvania Dutch speakers into sectarians and nonsectarians due to the linguistic and marked sociocultural differences.

Today, there are nearly 300,000 native speakers of Pennsylvania Dutch, almost all Old Order Amish (270,000) and Team Mennonites, as nearly all Old Orders speak Pennsylvania Dutch as their first language and learn English upon entering school. For an immigrant population to maintain a heritage language for centuries on foreign soil especially in the US is extraordinarily unusual, and the number of speakers is growing today thanks to population growth in these communities. Socioreligious isolation (e.g., Kloss 1966) played an important role in the maintenance of Pennsylvania Dutch for the earlier generations, but an increase in urbanization and integration into societal fabric of the nonsectarians led to incipient language shift. Today, most nonsectarian speakers are elderly, heavily attrited native speakers. The prominent connection between Pennsylvania Dutch and ethnoreligious identity remains the primary reason for its survival into the twenty-first century (Johnson-Weiner 1998, Louden 2006). For most of its history, Pennsylvania Dutch has been almost exclusively an oral language, however efforts to standardize its orthography and structure exist and are primarily geared toward language revival on the part of remaining nonsectarian speakers of the dialect (Frey 1985, Beam et al. 2004).

4.6 Swedish

The first wave of emigration from Sweden took place in the 1840s, and the rate of emigration rose after crop failures at the end of the 1860s. By 1930, when the period of mass migration came to an end, more than a million Swedes had left. Most Swedish emigrants settled in the Midwest, with the largest concentration in Minnesota and Illinois. Although the majority came from rural areas, around a fourth came from towns, and around a third of them settled in American cities like Chicago (Beijbom 1971: 11). The Swedish language was preserved longer in rural settlements with a high density of Swedish speakers. This is where we find most heritage speakers today, with most now over 70.

All Swedish dialect areas were represented among the emigrants, and there is clear evidence of dialect leveling and koiné formation among the first and second generation American-Swedes. Standard Swedish has had some influence, particularly through the written language and churches. Religious organizations established hospitals and colleges like Augustana in Illinois, and Gustavus Adolphus in Minnesota, and published both religious literature and journals in Swedish. The shift to English starts in the 1920s, and, in the public domain, it is more or less complete by the end of World War II. The Augustana Book Concern published 90 titles in Swedish between 1891–1895, with editions of over 300,000. The numbers drop from 1921 onwards, and after 1937 books and journals are published in English, with few exceptions. In 1921, 85% of the sermons in the Augustana Synod were held in Swedish, but from the middle of the 1930s, English can be considered the dominant language of Augustana (Hasselmo 1974: 57–58). Other organizations experienced parallel developments. For people with a Swedish heritage born after World War II, Swedish is generally a foreign language, and it is taught as such at some of the colleges.

4.7 West Frisian

The history of West Frisian immigration to the United States is closely tied to that of Dutch, its political and linguistic neighbor. Both share a history of relatively low out-migration compared to many other European groups, especially for a region with such relatively high population density: while there were roughly 80,000 Dutch in the United States when the nation was formed, overseas emigration of combined Dutch and Frisians between 1820 and 1920 totaled 272,882 individuals (Van Hinte and Swieringa 1985). Separating the West Frisian records from the Dutch proves difficult, though the best available data suggest that emigration from Friesland was much higher per capita than the national average (Galema 1996: 59).

Frisian settlement was highly concentrated. Major rural communities were founded in Randolph, Friesland and La Crosse, Wisconsin, and Orange City and Pella, Iowa, and elsewhere. In 1900 these communities included between 127 and 533 first- and second-generation Frisians (Galema 1996: 126–127). Even though such

raw numbers are low, local concentrations constituted a majority of the municipality (Bousquette and Ehresmann 2010: 260). Frisian emigration to Wisconsin took place relatively late and was short-lived. It peaked around 1880–1910 and then experienced a resurgence following World War II. Some of the Frisians who came over are still alive. In the first half of the 20th century, Frisian was the majority language in Columbia County, WI, with 15% of the population of Friesland, WI, reporting in the 1910 census as monolingual Frisian speakers; extrapolation of the data finds that over 55% of the community was likely proficient in West Frisian (Bousquette and Ehresmann 2010: 262). Today, there are less than two dozen living speakers in and around Friesland, WI.

A bi- or multi-lingual situation was defined by a separation of language domains, with Frisian as the language of everyday informal interaction, English as the language of school instruction, and Dutch and English as church languages. This situation mirrors the bilingual situation of the European Frisians before emigration, where Dutch was the language of school instruction. With immigration, English supplanted Dutch in church and school. Galema suggests that this may have occurred in the first generation of US-born Frisians (1996: 198). The last Dutch sermon was given in the 1990s. Turning to print media, a number of Dutch newspapers were printed in Michigan and Iowa. Frisian was exclusively a spoken variety.

4.8 Yiddish

Millions of Jews in Central and Eastern Europe spoke Yiddish, and a large percentage of them immigrated to the United States between 1880 and 1920. While the majority settled in New York, especially on the Lower East Side of Manhattan, there were also pockets of Yiddish speakers elsewhere. After World War II, many Yiddish-speaking survivors of the Nazi Holocaust, including many Hasidim and other Haredim (strictly Orthodox Jews), settled in the New York area.

The vast majority of descendants of the first wave of immigration (which ranged from secular to Orthodox) shifted to English within a few generations (Fishman 1981). The same is true for most of the non-Hasidic Yiddish speakers who immigrated after World War II. But many descendants of Hasidic immigrants have maintained Yiddish as a primary language of communication, especially among men (Isaacs 1999, Fader 2009), no doubt because they tend to live in insular communities and eschew elements of secular society. Due to high birth rates and communal retention, the number of Yiddish-speaking Hasidim has increased rapidly in the past few decades (Barrière 2013).

Among non-Hasidic Jews, the majority of Yiddish speakers today are elderly Holocaust survivors, and only a few dozen families have transmitted Yiddish to subsequent generations. In addition, Yiddish is still a language of instruction in some non-Hasidic Haredi yeshivas (religious educational institutions for boys and young men). Although over 150,000 people in the United States speak Yiddish today (Shin

and Kominsky 2010:6–7), there is a discourse of language endangerment among non-Hasidic Yiddish enthusiasts (Avineri 2012).

Eastern Yiddish (in contrast with the obsolete Western Yiddish, which was spoken in Germany and the Netherlands) is divided into three major dialects: Northeastern (considered the standard), Central, and Southeastern (Katz 1988, Jacobs 2005). These dialects differ mostly at the level of phonology along with some morphosyntactic distinctions. Yiddish speakers who immigrated between 1880 and 1920 spoke various dialects, and most Hasidim speak Central Yiddish (except Lubavitch Hasidim, who speak Northeastern Yiddish), with a large lexical component from Hebrew and Aramaic.

Today, among non-Hasidic Jews, there are several organizations dedicated to Yiddish, including Yugntruf, Yiddish Farm, League for Yiddish, Yiddishkayt LA, and Workmen's Circle. Some of these groups deal with Yiddish as a postvernacular language (Shandler 2006, Avineri 2012), while others focus on transmitting Yiddish as a vernacular. The YIVO Institute for Jewish Research – founded in Vilna in 1925 and based in New York since 1940 – has played a major role in the standardization of the language through research and publications.

5. Concluding remarks

Since we began this project, the Workshops on Immigrant Languages in the Americas have become a regular event, with planning presently underway for the 2015 event, to be held at Uppsala University, Sweden. Two further volumes are in planning as well, one each from the third and fourth workshops. When we put together the first little workshop in Madison, we had a hope that it would grow into a network of scholars, but no inkling that it would lead to a regular conference and to a string of volumes. We're excited to see where things go from here.

Finally, we are grateful to many people for making this volume possible, including the editors of the series, the organizers of the previous workshops, and participants. Alyson Sewell has provided invaluable editorial assistance in the last stages of the project. We owe special thanks to all those who reviewed papers so carefully, leading to significant improvements in both style and content and better integration with our overarching themes. The papers have each been reviewed by at least two external reviewers as well as by the present editors. Expert reviewing is of course essential in order to ensure high quality, and we are very grateful to the following linguists for their invaluable comments, in addition to many of the contributors to the volume who helped out as well: Suzanne Aalberse, Karin Aijmer, Gisle Andersen, Kate Burridge, Kersti Börjars, Nanna Haug Hilton, Eric Hoekstra, Rob Howell, Gisela Håkanson, Pavel Iosad, Neil Jacobs, Kristín Jóhannsdóttir, Jóhannes Gísli Jónsson, Merel C.J. Keijzser, Terje Lohndal, B. Venkat Mani, and Alyson Sewell. Some of the papers have been adapted from Norwegian after publication of earlier versions in the

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References

- Arnbjörnsdóttir, Birna. 2006. *North American Icelandic: The Life of a Language*. Winnipeg: University of Manitoba Press.
- Avineri, Netta. 2012. *Heritage Language Socialization Practices in Secular Yiddish Educational Contexts: The Creation of a Metalinguistic Community*. Los Angeles, CA: University of California Los Angeles dissertation.
- Barrière, Isabelle. 2013. "Lecture on Contemporary Hasidic Yiddish." Presented at the YIVO, October.
- Beam, C. Richard, et al. 2004. *The Comprehensive Pennsylvania Dutch Dictionary*. Millersville, PA: Center for Pennsylvania German Studies.
- Beijbom, Ulf. 1971. *Swedes in Chicago. A Demographic and Social Study of the 1846–1880 Emigration*. Diss. Studia Historica Upsaliensia/Chicago Historical Society. Läromedelsförlagen.
- Bousquette, Joshua and Todd Ehresmann. 2010. "West Frisian in Wisconsin: A Historical Profile of Immigrant Language Use in Randolph Township." *It Beaken* 72(1): 247–278.
- Buffington, Albert F. 1939. "Pennsylvania German: Its Relation to Other German Dialects." *American Speech* 14: 276–286. DOI: 10.2307/451627
- Fader, Ayala. 2009. *Mitzvah Girls: Bringing Up the Next Generation of Hasidic Jews in Brooklyn*. Princeton, NJ: Princeton University Press.
- Fishman, Joshua A. (ed). 1981. *Never Say Die: A Thousand Years of Yiddish in Jewish Life and Letters*. The Hague: Mouton. DOI: 10.1515/9783110820805
- Fishman, Joshua A. 1991. *Reversing Language Shift*. Clevedon, UK: Multilingual Matters.
- Frey, Benjamin. 2013. *Toward a General Theory of Language Shift: A Case Study in Wisconsin German and North Carolina Cherokee*. Madison, WI: University of Wisconsin-Madison dissertation.
- Frey, J. William. 1985. *A Simple Grammar of Pennsylvania Dutch*. Lancaster, PA: Brookshire.
- Galema, Annemieke. 1996. *Frisians to America 1880–1914: With the Baggage of the Fatherland*. Groningen: REGIO-Projekt Uitgevers.
- Gilbert, Glenn G. (ed). 1971. *The German Language in America*. Austin, TX: University of Texas Press.
- Grosjean, François. 2008. *Studying Bilinguals*. Oxford: Oxford University Press.
- Haldeman, Samuel Stehman. 1870. *Pennsylvania Dutch: A Dialect of South German with an Infusion of English*. London: Trübner & Co.
- Hasselmo, Nils. 1974. *Amerikasvenska. En bok om språkutvecklingen i Svensk-Amerika*. (Skrifter utg. av Svenska språknämnden 51). Lund: Esselte.
- Haugen, Einar. 1953. *The Norwegian Language in America: A Study in Bilingual Behavior*. 2nd Edition. Bloomington, IN: Indiana University Press.

- Huffines, Marion Lois. 1980. "Pennsylvania German: Maintenance and Shift." *International Journal of the Sociology of Language* 25: 43–57.
- Isaacs, Miriam. 1999. "Haredi, Haymish and Frim: Yiddish Vitality and Language Choice in a Transnational, Multilingual Community." *International Journal of the Sociology of Language* 138: 9–30.
- Jacobs, Neil. 2005. *Yiddish: A Linguistic Introduction*. Cambridge: Cambridge University Press.
- Johannessen, Janne Bondi and Joseph Salmons (eds). 2012. *Norsk i Amerika*. Special issue of the *Norsk Lingvistisk Tidsskrift [Norwegian Linguistics Journal]* 2.
- Johannessen, Janne Bondi and Signe Laake. 2012. "Østnorsk som norsk fellesdialekt i Midt-vesten." *Norsk Lingvistisk Tidsskrift [Norwegian Linguistics Journal]* 30(2): 365–380.
- Johannessen, Janne Bondi and Signe Laake. Forthcoming. "Eastern Norwegian as a Common Norwegian Dialect in the American Midwest." *Journal of Language Contact*.
- Johnson-Weiner, Karen. 1998. "Community Identity and Language Change in North American Anabaptist Communities." *Journal of Sociolinguistics* 2(3): 375–394.
DOI: 10.1111/1467-9481.00051
- Katz, Dovid (ed). 1988. *Dialects of the Yiddish Language*. (Winter Studies in Yiddish, vol. 2: Papers from the Second Annual Oxford Winter Symposium in Yiddish Language and Literature, 14–16 December 1986). Oxford: Pergamon Press.
- Kerswill, Paul. 2002. "Koineization and Accommodation." In *The Handbook of Language Variation and Change*, ed. by J. K. Chambers, Peter Trudgill and Natalie Schilling-Estes, 669–702. Oxford: Blackwell.
- Kerswill, Paul and Peter Trudgill. 2005. "The Birth of New Dialects." In *Dialect Change: Convergence and Divergence in European Languages*, ed. by Peter Auer, Frans Hinskens and Paul Kerswill, 196–220. Cambridge: Cambridge University Press.
DOI: 10.1017/CBO9780511486623.009
- Kloss, Heinz. 1966. "German-American Language Maintenance Efforts." In *Language Loyalty in the United States: The Maintenance and Perpetuation of Non-English Mother Tongues by American Ethnic and Religious Groups*, ed. by Joshua Fishman, 206–252. Hague: Mouton.
- Krabbendam, Hans. 2009. *Freedom on the Horizon: Dutch Immigration to America, 1840–1940*. Grand Rapids, MI: Eerdmans.
- Kristjánsson, Júníus. 1983. *Vesturfaraskrá, 1870–1914: A Record of Emigrants from Iceland to America 1870–1914*. Reykjavík: Institute of History, University of Iceland.
- Louden, Mark L. 1988. *Bilingualism and Syntactic Change in Pennsylvania German*. Ithaca, NY: Cornell University dissertation.
- Louden, Mark L. 2006. "Pennsylvania German in the Twenty-First Century." In *Sprachinseln – The World of Language Islands*, ed. by Nina Berend and Elisabeth Knipf-Komlósi, 89–107. Frankfurt: Peter Lang.
- Lucht, Felecia. Manuscript. *Life after Language Death: The Effects of Community Change on the History and Future of German in Southeastern Wisconsin*. Wayne State University.
- Montrul, Silvia. 2008. *Incomplete Acquisition in Bilingualism: Re-examining the Age Factor*. Amsterdam: John Benjamins. DOI: 10.1075/sibil.39
- Nützel, Daniel. 2009. *The East Franconian Dialect of Haysville, Indiana: A Study in Language Death / Die ostfränkische Mundart von Haysville, Indiana: Eine Untersuchung mit ausgewählten morphologischen und syntaktischen Phänomenen*. (Regensburger Dialektforum, vol. 15). Regensburg: Edition Vulpes.
- Polinsky, Maria and Olga Kagan. 2007. "Heritage Languages in the 'Wild' and in the Classroom." *Language and Linguistics Compass* 1: 368–395. DOI: 10.1111/j.1749-818X.2007.00022.x

- Putnam, Michael T. (ed). 2011. *Studies on German-Language Islands*. Amsterdam: Benjamins. DOI: 10.1075/slcs.123
- Rothman, Jason. 2009. "Understanding the Nature and Outcomes of Early Bilingualism: Romance Languages as Heritage Languages." *The International Journal of Bilingualism* 13: 155–163. DOI: 10.1177/1367006909339814
- Salmons, Joseph (ed). 1993. *The German Language in America: 1683–1991*. Madison: Max Kade Institute.
- Salmons, Joseph. 2002. "The Shift from German to English, World War I, and the German-Language Press in Wisconsin." In *Menschen zwischen zwei Welten: Auswanderung, Ansiedlung, Akkulturation*, ed. by W. G. Rödel and Helmut Schmahl, 179–193. Trier: Wissenschaftlicher Verlag Trier.
- Salmons, Joseph. 2005a. "Community, Region and Language Shift in German-Speaking Wisconsin." In *Regionalism in the Age of Globalism, vol. 1: Concepts of Regionalism*, ed. by Lothar Hönnighausen, Marc Frey, James Peacock, and Niklaus Steiner, 129–138. Madison, WI: Center for the Study of Upper Midwestern Cultures.
- Salmons, Joseph. 2005b. "The Role of Community and Regional Structure in Language Shift." In *Regionalism in the Age of Globalism, vol. 2: Forms of Regionalism*, ed. by Lothar Hönnighausen, Anke Ortlepp, James Peacock, Niklaus Steiner, and Carrie Matthews (consulting editor), 133–144. Madison, WI: Center for the Study of Upper Midwestern Cultures.
- Shandler, Jeffrey. 2006. *Adventures in Yiddishland: Postvernacular Language and Culture*. Berkeley: University of California Press.
- Shin, Hyon B. and Robert A. Kominski. 2010. *Language Use in the United States: 2007*. American Community Survey Reports. U.S. Census Bureau. <http://www.census.gov/hhes/socdemo/language/data/acs/ACS-12.pdf>.
- StatCan. www.statcan.gc.ca<http://www76.statcan.gc.ca/stcsr/query.html?style=empandqt=Icelandicandcharset=iso-8859-1andqm=1>). Retrieved November 21, 2013.
- Swierenga, Robert P. 2000. *Faith and Family: Dutch Immigration and Settlement in the United States, 1820–1920*. New York, London: Holmes and Meier.
- Van Hinte, Jacob and Robert P. Swierenga. 1985. *Netherlanders in America: A Study of Emigration and Settlement in the Nineteenth and Twentieth Centuries in the United States of America*. Grand Rapids, MI: Baker Book House.
- Van Marle, Jaap. 2001. "The Acculturation of Dutch Immigrants in the USA: A Linguist's view." In *The Dutch Adapting in North America*, ed. by Richard Harms, 18–26. Grand Rapids, Michigan: Calvin College.
- Veltman, Calvin. 1983. *Language Shift in the United States*. Berlin: Walter de Gruyter. DOI: 10.1515/9783110824001
- Waggoner, Dorothy. 1981. "Statistics on Language Use." In *Language in the USA*, ed. by Charles A. Ferguson and Shirley Brice Heath, 486–515. Cambridge, UK: Cambridge University Press.
- Wilkerson, Miranda and Joseph Salmons. 2008. "'Good Old Immigrants of Yesteryear' Who Didn't Learn English: Germans in Wisconsin." *American Speech* 83(3): 259–283. DOI: 10.1215/00031283-2008-020
- Wilkerson, Miranda and Joseph Salmons. 2012. "Linguistic Marginalities: Becoming American Without Learning English." *Journal of Transnational American Studies* 4(2). acgcc_jtas_7115. <http://www.escholarship.org/uc/item/5vn092kk>.
- Wokeck, Marianne S. 1999. *Trade in Strangers: The Beginnings of Mass Migration to North America*. University Park, PA: Pennsylvania State University Press.

PART I

Acquisition and attrition

Word order variation in Norwegian possessive constructions

Bilingual acquisition and attrition

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In Norwegian possessive constructions, the possessive may either precede or follow the noun. Monolingual children initially show a preference for the prenominal possessive construction, although it is much less frequent than the postnominal one in the adult language. A likely explanation is that postnominal possessives are structurally more complex. In this paper, we examine this word order variation in two bilingual populations, Norwegian-English children growing up in Norway and adult Norwegian heritage speakers in the USA. We expected both groups to exhibit a stronger preference for prenominal possessives than the monolingual children due to influence from English. However, we only find this in the bilingual children. One possible explanation is that, while complexity plays a major role in acquisition, high frequency protects against language attrition.

Keywords: Norwegian, Norwegian-English bilinguals, language acquisition, attrition, heritage speakers, possessives, word order, definiteness, frequency, complexity

1. Introduction

Norwegian possessives may be either pre- or postnominal; the two word orders are illustrated in (1)–(2). Postnominal possessives have to co-occur with a noun in the definite form, while this is not possible with prenominal possessives, which must appear with a bare noun.

- (1) *min bil* **min bilen*
my car my car.DEF
'My car'

- (2) *bilen min *bil min*
 car.DEF my car my
 'My car'

In this paper, we discuss this word order variation and investigate how these structures are acquired by Norwegian-English bilingual children, that is, in a context in which Norwegian is acquired simultaneously with a language that only permits one of the two word orders. We compare these findings with data from monolingual Norwegian children investigated in Anderssen and Westergaard (2010), henceforth referred to as A&W. We also consider how this variation affects the language of bilingual adults in a situation where the second language (English) is extremely dominant, which is the situation for the descendants of Norwegian immigrants in the USA.

According to A&W, monolingual Norwegian children show a preference for prenominal possessive structures at an early stage of the acquisition process, despite the fact that the postnominal possessive is considerably more frequent in child-directed speech, as well as in the adult language generally. As the postnominal possessive is also more complex than the prenominal one (morphologically and syntactically), A&W suggest that complexity has a larger impact on the acquisition process than frequency.

In the present study, we show that bilingual children, like monolinguals, produce predominantly prenominal possessives at an early stage of development. In addition, this preference seems to be stronger and to last longer in the bilingual children. This is in sharp contrast to the Norwegian heritage speakers. Given the strong predominance of English in the linguistic environment of these speakers, we expected the postnominal possessive to be vulnerable to language attrition. Surprisingly, this is not the case.

The paper consists of eight sections. In the next section, we provide a brief overview of the syntactic structure, interpretation and frequency of the two word orders in (1)–(2), and in Section 3 we describe the findings from previous research on first language acquisition of Norwegian. Based on these findings, we make predictions for the present study in Section 4. In Section 5, we describe the data from the bilingual children and provide an overview of the results. Section 6 provides equivalent data from the heritage speakers. In Section 7, we discuss the results of the study in light of three questions related to differences between language acquisition and language attrition. The final section provides a brief summary.

2. Pre- and postnominal possessives: Syntactic structure, interpretation and frequency

As mentioned above, A&W argue that postnominal possessive structures are more complex than prenominal ones. In this section, we start by providing a brief overview of the theoretical assumptions behind this description of these structures. We then consider the interpretation of pre- and postnominal possessives. Finally, we provide an overview of how often the two word orders are used by adult speakers, showing that the postnominal possessive is considerably more frequent than the prenominal one.

2.1 Syntactic structure

The syntactic structure of these two word orders has represented a challenge within theoretical linguistics. One problem has been to come up with an analysis that can derive both pre- and postnominal structures in a manner that explains why the latter has to occur with the suffixal article. There exist a considerable number of studies on Scandinavian DP-structure, and many of these also provide an account of possessive structures; while there still is no generally agreed-upon analysis, some aspects tend to be shared by most accounts. Let us consider some of these.

First, Scandinavian DPs are assumed to have two syntactic positions for determiners. One of these is located higher than attributive adjectives while the other is located lower down in the structure (Taraldsen 1990).¹ The main argument for this assumption is so-called double definiteness, as in *den lille gutten* ‘the little boy.DEF’ (cf. Vangsnes 1999, Julien 2005, Anderssen 2006). The suffixal article is consequently also assumed to be associated with the lowest of these two positions (Julien 2005, Anderssen 2006). Possessives are taken to be base-generated higher in the structure than the base position of the noun, but lower than the suffixal article. Based on these arguments, the following basic order can be assumed in the DP:

- (3) DETERMINER – ADJECTIVE – DETERMINER (suffix) – POSSESSIVE – NOUN

Given this structure, the prenominal possessive reflects the basic word order in DPs (4), while the postnominal possessive is derived by moving the noun across the possessive to merge with the determiner (5).

- | | | |
|-------------|------------|------------|
| (4) | <i>min</i> | <i>bil</i> |
| | my | car |
| (DET- suff) | POSS | – NOUN |
-
- | | | | |
|-----|--------------|------------|------------|
| (5) | <i>bilen</i> | <i>min</i> | <i>bil</i> |
| | car.DEF | my | car |
| | NOUN+DET | POSS | NOUN |

Based on this analysis, A&W argue that the structure in (5) is structurally more complex than the one in (4).² To produce a prenominal possessive, children can use the

1. As this discussion regards basic word order, the higher determiner will always be to the left of the one lower down in the structure, and adjectives will consequently be located to the right of the free determiner and to the left of the suffixal article.

2. Given the assumptions that have been made here about Norwegian DP-structure, it could be argued that the possessive also has to move in some contexts. For example, this seems to be required when the prenominal possessive co-occurs with an attributive adjective (such as in *min grønne bil* ‘my green car’). That is, one possible interpretation of these data is that the possessive always has to move to a high position in the DP-structure, also when there is no adjective present. This would challenge the assumption that prenominal possessives are less complex than postnominal ones, as both would be the result of syntactic movement. Irrespective of how these structures

basic word order, while to produce a postnominal structure, the noun has to move past the possessive. Postnominal possessives are also morphologically more complex in that they have to occur with a noun marked for definiteness. Furthermore, postnominal possessive pronouns go against the general word order pattern of (free) determiners in Norwegian, which are typically prenominal.³ Lødrup (2012: 191–196) also argues that the prenominal word order is the unmarked one, partly because it is sometimes the only possible option. For example, this is the only possible word order in cases when the noun cannot co-occur with the suffixal article (e.g., *mitt Norge* ‘my Norway’ vs. **Norge mitt* ‘Norway my’). Similarly, prenominal structures are used in many fixed expressions (e.g., *på min måte* ‘in my way’ vs. **på måten min* ‘in way.DEF my’).

2.2 The interpretation of pre- and postnominal possessives

Pre- and postnominal possessives are used in different contexts. According to standard Norwegian grammar, e.g., Faarlund et al. (1997: 265), prenominal possessives are emphatic or contrastive, while postnominal possessives have a parenthetical possessive interpretation. This is also reflected in the prosodic structure of the elements involved. In prenominal possessives the possessive pronoun is the most prominent element (*MIN bil* ‘my car’), while in postnominal structures, it is the noun that is the most prominent element (*BILEN min* ‘car.DEF my’). Lødrup (2011, 2012) captures this difference in terms of information structure and the relationship between strong and weak pronouns. He follows Cardinaletti and Starke’s (1999) categorization of pronouns as weak or strong and argues that postnominal possessives are weak, while prenominal possessives are strong. Weak pronouns are typically used with topical information, while strong ones are used with focal information, at least in the spoken language (Lødrup 2012: 197). Furthermore, he shows that while postnominal (topical) possessive pronouns may be contrastive (6a), topical prenominal possessives are in general unacceptable, consider (6b) (both from Lødrup 2012: 197):

- (6) a. *De stjal bilen HANS.*
 they stole car.DEF his
 ‘They stole HIS boat.’
 b. *Ola reparerte båten sin /[?]sin båt.*
 Ola repaired boat.DEF his/ his boat
 ‘Ola repaired his boat.’

are analysed, however, this does not represent a problem for our data, as the Tromsø dialect generally does not allow attribution adjectives with prenominal possessives (see A&W 2010: 2580), except in abstract expressions such as *min største drøm* ‘my biggest dream’. Furthermore, the fact remains that prenominal possessive structures can be produced without involving syntactic movement in unmodified cases, while this is never possible with postnominal possessives.

3. We thank an anonymous reviewer for this observation.

This is not the case in written Norwegian, where prenominal possessive structures can also be used with topical possessive pronouns. This is most likely also true of more formal varieties of spoken Norwegian.⁴ In the Tromsø dialect, however, prenominal possessives are primarily used with contrastive focus.

A&W (2010:2580–2581) illustrate the difference between the interpretation of pre- and postnominal possessive structures with authentic examples from a corpus of spontaneous speech, such as (7), where a mother is talking about her daughter:

- (7) a. *ja den derre jabba hennes, den går i ett sett.*
 yes that there mouth.DEF her it goes in one set
 ‘Yes, that mouth of hers, it moves non-stop.’
 b. *æ hørte hennes stemme over alle de andre når æ kom....*
 I heard her voice over all the others when I came
 ‘I could hear HER voice above all the others when I came (to pick her up).’

In (7a), the mother is referring to her daughter’s mouth in a non-contrastive way. The possessive relationship is already known and obvious, and consequently, a postnominal possessive is used. In the second sentence, where the woman is contrasting her daughter’s voice with those of the other children, the possessive is focused and emphatic, and hence the prenominal possessive is used.

2.3 The distribution of pre- and postnominal possessives

We have seen that pre- and postnominal possessive structures are used in different contexts, depending on whether the possessive is topical or focal. This difference is also reflected by the fact that the two structures are used with very different frequencies. A&W (2010:2581) investigated the relative frequency of the two word orders in the data of eight adults in a large child language corpus consisting of almost 73,000 adult utterances (Anderssen 2006), and found that postnominal structures are used at 75% (851/1135), while prenominal possessives only represent 25% (284/1135) of the total number of possessives. Based on the observed distribution, A&W concluded that children acquiring Norwegian (and specifically the Tromsø dialect) are exposed to many more postnominal than prenominal possessives. To ensure that this frequency did not only apply to child-directed speech, we also investigated the proportion of pre- and postnominal possessive structures in *Norsk Talespråkskorpus* (NoTa, the Norwegian Spoken Corpus), which consists of recordings of 166 adult speakers from Oslo. The results of this count confirmed the findings from child-directed speech, as this investigation revealed that prenominal possessives make up 27% (700/2583) of all possessive structures, while postnominal ones represent 73% (1883/2583). As we have

4. We use the terms *variety* rather than *dialect* here because we are assuming that topical prenominal possessives are primarily used in higher registers/styles. We return to this point in the next section.

argued that postnominal possessives are more complex due to syntactic movement of the noun past the possessive, we have a (relatively unusual) situation where the most frequent structure is also the most complex one. We now consider which possessive structure monolingual Norwegian children prefer.

3. Possessive structures and monolingual acquisition

As mentioned in the introduction, A&W’s goal was to test the relative impact of frequency and complexity, which is a central question within language acquisition research. Furthermore, it is a question that typically distinguishes generative and constructivist theories. Norwegian possessive structures are well suited for this kind of study, due to the fact that these structures allow two word orders, where one, POSS-N, is both less complex and less frequent than the other, N-POSS. Accordingly, we would expect POSS-N to be acquired *before* N-POSS if complexity is the more important factor in language acquisition, but *after* it if frequency plays a more important role. To test this, the distribution of pre- and postnominal possessives was investigated in spontaneous production data of three monolingual children growing up in Tromsø. These child language data come from the Anderssen corpus mentioned in 2.3 above, which consists of almost 47,000 child utterances.

Table 1 (based on Table 9 in A&W 2010: 2582) provides an overview of the distribution of pre- and postnominal possessives in the corpus data of the three monolingual Norwegian children.

Table 1. Number/total and percentage of postnominal possessives (N-POSS) in Norwegian child data.

Child	Period 1 (1;8–2;0)	Period 2 (2;0–2;4)	Period 3 (2;4–2;8)	Period 4 (2;8–3;0)
Ina	0/0 (0%)	8/12 (67%)	37/43 (86%)	84/135 (62)
Ann	0/2 (0%)	10/19 (53%)	27/34 (79%)	20/30 (67%)
Ole	0/5 (0%)	6/14 (43%)	23/31 (74%)	43/105 (41%)
Total	0/7 (0%)	24/45 (53%)	87/108 (81%)	147/270 (54%)

The results reveal that the children have a clear preference for prenominal possessives early on in development. Prenominal possessives are attested in the data of all three children before postnominal ones; that is, before the children reach the age of two, only prenominal possessives are attested in their production. Examples of early prenominal possessives are provided in (8)–(10) (A&W 2010: 2582).

- (8) *min seng.* (Ann, 1;11.0)
my bed
'My bed.'

- (9) *han er min mann.* (Ole, 1;10.22)
 he is my man
 'It is my man.'
- (10) *det er min kjole.* (Ina, 2;1.23)
 it is my dress
 'It is my dress.'

After the children's second birthday, the first postnominal possessives appear, and between the ages of two (2;0) and two years and four months (2;4), these make up approximately 50%, which is still considerably less than in the adult data (75%). Examples of early postnominal structures are provided in (11)–(13) (A&W 2010: 2582).

- (11) *sola di.* (Ann, 2;0.17)
 sun.DEF your
 'Your sun.'
- (12) *han være i skufle di.* (Ole, 2;0.10)
 he be in shovel.DEF your
 'He (should) be in your shovel.'
- (13) *nei no døtt ned mannen på foten min.* (Ina, 2;1.29)
 no now falls down man.DEF on foot.DEF my
 'Oh, now the man is falling down on my foot.'

Only when they are between the age of 2;4 and 2;8 do the children use the postnominal possessive as frequently as the adult speakers. At this stage, the children use this word order 81% of the time.⁵

A&W also show that the early predominance of prenominal possessives cannot only be due to a greater propensity on the part of the children to want to put focus on the possessor, even though this may be a contributing factor. The children clearly also use the prenominal possessive in a non-target-consistent way; that is, in situations that are not contrastive. Examples of this are provided in (14) and (15) (A&W 2010: 2583–2584). In both these dialogues, the adult speakers are using postnominal possessives, while the children are using prenominal ones.

- (14) Ole: *her døtt av hjulan.*
 here fall off wheels.DEF
 'Look, the wheels are falling off.'
- Adult: *døtt hjulan demmes av?*
 fall wheels.DEF their off
 'Are their wheels falling off?'

5. The proportion of postnominal possessives decreases again in the fourth period as the recordings from this period contain many more contrastive contexts, cf. A&W 2010: 2584–2585.

Ole: *ja, demmes hjula dætt av.*
 yes their wheels fall off
 'Yes, their wheels are falling off.'
 (Ole, 2;2)

(15) Adult: *ja eg ser det kjem opp igjennom sugerøret.*
 yes I see it comes up through straw.DEF
 'Yes, I can see it coming up through the straw.'

Ina: *i min munn.*
 into my mouth
 'Into my mouth.'

Adult: *ja og opp i munnen din.*
 yes and up into mouth.DEF your
 'Yes, and up into your mouth.'
 (Ina, 2;9)

A&W claim that, on its own, frequency can neither predict the order of acquisition nor the types of errors that children produce. If frequency were the most important factor, we would expect the children to prefer the postnominal possessive. Instead, the least frequent but also least complex word order seems to be acquired first, and according to A&W, this suggests that complexity has a stronger impact on language acquisition, in that less complex structures are acquired before more complex ones.

Other studies of the acquisition of Norwegian have shown that children have an early command of word order variation that is dependent on fine syntactic distinctions or information structure, e.g., Westergaard (2009) on variation between V2 and non-V2 in North Norwegian dialects. In cases where there is a (slight) delay in the acquisition of this variation and the children prefer one of the two word orders, this has been explained with reference to complexity or a principle of economy rather than frequency, e.g., Westergaard and Bentzen (2007) on word order in subordinate clauses and Anderssen, Bentzen, Rodina and Westergaard (2010) on subject and object shift.

4. Hypotheses

So far we have assumed that the postnominal possessive structure is syntactically more complex than the prenominal one due to the movement of the noun past the possessive. We have also shown that the prenominal structure seems to be preferred at an early stage of acquisition by monolingual Norwegian children, even though it is considerably less frequent in the input. Because of this, it is likely that the postnominal possessive structure will be even more vulnerable in bilingual situations, where the other language only has prenominal structures. Consequently, we propose the following hypotheses for bilingual Norwegian-English contexts:

- A. The preference for the prenominal possessive construction should be both stronger and last longer in bilingual Norwegian-English children than in monolingual Norwegian children.

- B. The postnominal possessive construction should be less frequent in the language of bilingual Norwegian-English adults, where English is the dominant language, than in that of monolingual Norwegian adults.

5. Bilingual acquisition

5.1 Informants and data collection

To test hypothesis A, we have investigated the acquisition of possessive structures in spontaneous production data from two Norwegian-English bilingual children growing up in Tromsø. The two children, Emma and Sunniva, both live in homes in which one of the parents is a native speaker of English; Emma's mother is American and Sunniva's father is British. In both families, English is the home language and is used by both parents when speaking to the child and each other. Norwegian is used everywhere else in society; both children have attended nursery from the age of one and are consequently regularly exposed to Norwegian.

Seven Norwegian recordings were made of both children, but the data collection was quite different in the two cases, which makes it difficult to make direct comparisons. Sunniva was recorded for approximately one year (age: 1;8.8–2;7.24), while Emma was recorded much more intensively in the course of a three-month period (2;7.10–2;10.9). Unfortunately, there are relatively few examples of possessive structures produced by the two children, and as a result, our findings have to be interpreted with some caution.

5.2 Results – overview

Table 2 provides an overview of the distribution of pre- and postnominal possessives in the production of the two Norwegian-English children. Despite the very low number of relevant occurrences, the children's files have been divided into four periods, as was done for the monolingual data in A&W. Data from both children are available in only one of these periods, Period 3.

Table 2. Number/total and percentage of postnominal possessives in bilingual Norwegian-English child data.

Child	Period 1 (1;8–2;0)	Period 2 (2;0–2;4)	Period 3 (2;4–2;8)	Period 4 (2;8–3;0)
Sunniva	4/15 (27%)	2/2 (100%)	1/3 (33%)	NO DATA
Emma	NO DATA	NO DATA	3/10 (30%)	21/25 (84%)
Total	4/15 (27%)	2/2 (100%)	4/13 (31%)	21/25 (84%)

As we can see in Table 2, the development of the bilingual children resembles that of the monolinguals in the sense that they also seem to prefer the prenominal possessive structure at an early stage of development. The data are also different in some ways.

The first of these differences might not be directly relevant, but should nevertheless be commented on: Unlike the monolingual children, Sunniva produces both pre- and postnominal possessives in Period 1 (cf. (16) and (17)), though the latter clearly represent the minority (4/15). It is difficult to explain this difference, other than by referring to individual differences and coincidence: Sunniva seems to be an unusually precocious talker compared to other children. However, despite the fact that she is very advanced for her age linguistically, she seems to acquire target-like use of postnominal possessives somewhat later than the monolingual peers discussed in A&W.

- (16) *nei, ikke min kjole.* (Sun, 1;8.8)
 no not my dress
 'No, not my dress.'
- (17) *baby min.*
 baby my
 'My baby'
- Target: *babyen min*

The second difference between the bilingual and the monolingual children is that the bilingual children seem to exhibit an even stronger preference for prenominal possessives than the monolinguals, as predicted by Hypothesis A. As illustrated in Table 2, postnominal possessives represent 33.3% (10/30) in Periods 1–3.⁶ This proportion is lower than what is reported in A&W for the monolinguals at the same age, where the average percentage for the first three periods is 69.4% (111/160), cf. Table 1. Thus, the predominance of prenominal possessives may last somewhat longer in the bilingual children's production. This suggests that the development of the bilinguals is slightly delayed compared to the monolingual children. This observation is also compatible with Hypothesis A. Due to the limited data on which this study is based, any conclusions drawn about these results need to be made with caution. However, the results indicate that our hypothesis is confirmed: The bilingual children may have both a stronger and a longer lasting preference for prenominal possessives. If so, it is likely that simultaneous exposure to English possessives enhances the prenominal possessive in Norwegian and causes a stronger dominance of this word order. Thus, frequency does seem to have an impact on the acquisition process, but only indirectly, by prolonging a stage during which one word order is preferred due to its lower complexity. A similar argument has been used to explain the difference in the acquisition of subject and object shift in Norwegian monolinguals (Anderssen et al. 2010).

6. Obviously, this is not true of the second period, when only two possessives are produced, both of which are postnominal. Most likely this is a coincidence.

5.3 Similarities between mono- and bilinguals:

The overuse of prenominal possessives

We have seen that there are both similarities and differences between mono- and bilingual children with respect to the acquisition of possessive structures. In this connection, it is relevant to ask whether the bilingual children also use prenominal possessives in situations in which postnominal structures would be more appropriate. In Section 2.2 we reported that pre- and postnominal possessives do not have the same interpretation. In postnominal possessives, possessive pronouns are usually topical and make up part of the background of the utterance, while in prenominal possessives, they are focal and the possessive relationship is foregrounded, often contrastively (Faarlund et al. 1997, A&W, Lødrup 2012). In Section 3, we showed that monolingual children struggle with this distinction at an early stage and use prenominal possessives in situations in which the possessive relationship is part of the background of the utterance (topical information). Not surprisingly, the bilingual children also appear to overuse prenominal possessives this way, as illustrated in the following examples.

(18) *den er ikke i min veska.* (Sun, 1;10.16)

it is not in my handbag
'It is not in my handbag.'

(19) *den tog har æ fått mi mamma.* (Emm, 2;7.10)

that train have I received my mummy
'My mummy gave me that train.'

Accordingly, we can conclude that the preference for prenominal possessives found in the data of the bilingual children cannot be due to a tendency for them to want to foreground the possessive relationship. In this respect mono- and bilingual children behave in a similar way.

5.4 Differences between mono- and bilinguals: Definiteness marking and postnominal possessives

So far, we have seen that both the monolingual and the bilingual children use prenominal possessive structures more than adults, and that some of these structures are pragmatically inappropriate. One striking difference between these two groups relates to definiteness marking. In Section 2.1, we showed that prenominal possessives must be accompanied by nouns in the bare form, while postnominal ones co-occur with definite nouns. The monolingual children rarely make any mistakes with regard to definiteness marking in the two word orders. This is especially true of postnominal possessives, with which the three children Ina, Ann and Ole use bare nouns only 6.7% (10/150), 3.5% (2/57) and 1.4% (1/72) respectively. In prenominal possessive

structures, the proportion of non-target-consistent production is slightly higher: Ina, Ann and Ole have definiteness marking on the noun in these structures 11.4% (9/79), 7.1% (2/28) and 4.8% (4/83). The bilingual children, on the other hand, seem to have relatively little trouble with null definiteness marking on prenominal possessives. There is only one example of a prenominal possessive occurring with a noun in the definite form in Emma's data (cf. (20)), representing 9.1% (1/11). Sunniva produces one structure that could be interpreted as containing a definiteness error (cf. (21)), but it is uncertain whether the *-a* ending should be interpreted as a definiteness marker here.⁷ It is a possible interpretation based on the fact that in the same file, Sunniva says *xx putte kjola* (put dress.DEF) in what appears to be a definite context. If Example (21) is included, this represents 7.7% (1/13) of Sunniva's prenominal possessives.

- (20) *æ vil ha < stor ku> [//] min kua der oppi.* (Emm, 2;8.7)
 I will have big cow my cow.DEF there up-in
 'I want to have my cow in there.'
- (21) *min kjola.* (Sun, 1;8.8)
 my dress.DEF?
 'My dress.'

Thus, the bilingual children appear to fall within the variation observed in the data of the monolingual children with respect to definiteness marking on prenominal possessives. All children make between 4.8% and 11.4% errors. In the postnominal possessive structures produced by the bilinguals, however, 32.3% of all the lack the definite suffix. For Emma, these structures represent 33.3% (8/24) and for Sunniva 28.6% (2/7). Examples are provided in (22)–(24) (cf. also (17) above).

- (22) *og han tok [?] ikke med kylling min.* (Emm, 2;8.20)
 and he took not with chicken my
 'And he didn't bring my chicken.'
- (23) *sånn som æ bruke på finger mi.* (Emm 2;9.11)
 like that I use on finger my
 'Like the type I use on my finger.'
- (24) *Noddy min.* (Sun, 1;9.22)
 Noddy my
 'My Noddy.'

Again, the limited data available makes it necessary to draw our conclusions with caution. However, the bilingual children could possibly be distinguished from the monolinguals not only by exhibiting a stronger and more persistent preference for

7. *Kjole* 'dress' is a masculine noun in the Tromsø dialect, and the definite form should consequently be *kjole-n* 'dress-the.' The use of *-a* here might be an (unsuccessful) attempt at definiteness marking.

prenominal possessives; they also have somewhat more trouble with definiteness marking on postnominal possessives.⁸

5.5 Intermediate summary

In this section, we have shown that Norwegian-English bilingual children are similar to monolingual children in the sense that both groups show a preference for prenominal possessives. Like monolinguals, bilinguals use prenominal possessives in contexts in which an adult would have used postnominal ones. The goal of the study was to test whether the preference for prenominal possessives would be stronger and more persistent in the bilingual children due to influence from English. The (admittedly very limited) data indicate that this could be the case. The fact that English only has a prenominal possessive construction seems to have the effect that it further enhances the prenominal possessive in Norwegian. Furthermore, it was found that the bilingual children have certain problems with definiteness marking in postnominal possessive structures, which suggests that they do not only prefer the least complex structure (the prenominal one), but also disprefer postnominal structures, possibly because they require definiteness marking.

6. Heritage speakers

6.1 Informants

In order to test our Hypothesis B, that the prenominal possessive construction would be preferred also by bilingual Norwegian-English adults, we have studied a selection of Norwegian-Americans in the USA, more specifically informants that were interviewed in connection with the NorAmDiaSyn fieldwork in Wisconsin and Minnesota in September 2010. The selection consists of 37 speakers, 10 women and 27 men, from the following locations: Blair (4), Spring Grove (8), Harmony (5), Decorah (2), Westby (9), Mabel (2), and Coon Valley (7).⁹

8. It is unlikely that the problems that the two bilingual children have with definiteness marking in postnominal possessives is due to a general problem related to the suffixal article. For example, in the two first files (1;8.8 and 1;9.22), Sunniva produces 38 nouns in the definite form (with the suffixal article), and only three ungrammatical bare nouns (7.3%). This is very low for her age. She uses definiteness marking in more than 90% of appropriate cases. Emma, on the other hand, sometimes replaces the definite suffix with the demonstrative determiner *den*, and says *den hest* 'the horse' instead of *hest-en* 'horse-the' (cf. Anderssen and Bentzen 2013). However, such examples are rare in Emma's data as well.

9. In this article we use a coding for the informants that only shows gender and location.

The informants are roughly 70 to 90 years of age and mainly third generation immigrants who grew up speaking Norwegian at home with their parents and grandparents. Most of them did not learn English until they started school around the age of six, and they may therefore be characterized as successive bilinguals. The home language was Norwegian, but they generally had little opportunity to use Norwegian in the community, and English has thus been the dominant language for these speakers throughout their adult lives. They have not passed on the language to their own children, and they rarely speak Norwegian today, mainly due to the very limited number of possible conversation partners. Furthermore, most of these speakers have never learned to read and write Norwegian.

Most of our informants are descendants of immigrants who came from rural areas in Eastern Norway. This means that they generally speak rural East Norwegian dialects, which are different from standard Norwegian and most urban dialects in that they allow postnominal possessor constructions with an indefinite form of the noun if this is a kinship term, as illustrated in (25), cf. Julien (2005). However, it is important to point out that not all kinship terms allow indefinite nouns in this context, cf. (26). This is relevant, as kinship terms are quite frequent in the production data of the heritage speakers.

- (25) *far min, mor mi, sønn min, bestemor mi*
father my mother my son my grandmother my
- (26) **kjerring mi *kone mi *søskenbarn mitt*
woman my wife my cousin my

6.2 Results – overview

Four of the 37 informants do not produce possessive constructions at all. The remaining 33 speakers produce 453 examples altogether, and Table 3 provides an overview of the word orders used.

Table 3. Word order in possessive constructions, 33 heritage speakers.

Construction	N	%
N _{def} -POSS	153	33.8%
N _{indef} -POSS	209	46.1%
POSS-N	90	19.9%
POSS-N-POSS	1	0.2%
Total	453	100%

The most striking result is that the word order N-POSS is very robust in these data. Even though only 153 examples (33.8%) are of the type N_{def}-POSS, i.e., postnominal possessives with a definite noun, there are additionally 209 examples (46.1%) of the type N_{indef}-POSS, i.e., nouns without the definiteness suffix. This means that postnominal possessives are attested as much as 79.9%, which is actually somewhat higher than the percentages found in the corpora of adult speakers from Tromsø and Oslo

(cf. Section 2). We thus do not have any evidence that the postnominal possessor construction is vulnerable in heritage Norwegian. In fact, the prenominal possessor construction, which was expected to be more frequent in these data, according to our Hypothesis B, only makes up 19.9%. There is additionally one example with both a prenominal and a postnominal possessor, and as shown in (27) this is a mixed-language DP where the prenominal possessor is English and the postnominal one is Norwegian.

- (27) *Og son min, my gamlaste son min, han like ...* (8M Spring Grove)
 and son my my oldest son my he likes ...
 ‘And my son, my oldest son, he likes ...’

Furthermore, the relatively complex nominal morphology with respect to gender and number is generally also in place in the data from the heritage speakers, as shown by the examples in (29)–(31):

- (28) *farmen min* (1M Blair)
 farm.DEF my.MASC.SG
 ‘My farm.’
- (29) *kjerringa mi*
 wife.DEF my.FEM.SG
 ‘My wife.’
- (30) *maskineriet mitt*
 machinery.DEF my.NEUT.SG
 ‘My machinery.’
- (31) *unga mine*
 kids.DEF my.PL
 ‘My kids.’

6.3 Possessive constructions with a postnominal possessive

As shown in the previous section, the postnominal possessive construction is clearly intact in the grammar of these bilingual speakers. On closer inspection, the postnominal possessors are not only robust, but also productive, as this construction is also used when the informants use loanwords from English, illustrated in (32)–(33). There are also occasional examples in the data where the noun is Norwegian and the possessive is English, but the word order is nevertheless N-POSS, as in (34).

- (32) *schoolhouse’n din* (3M Spring Grove)
 school.house.DEF your
 ‘Your schoolhouse.’
- (33) *family’n hennes* (5M Spring Grove)
 family.DEF her
 ‘Her family.’

- (34) *bestemor mi, familien her* (1M Spring Grove)
grandmother my family.DEF her
'My grandmother, her family ...'

The most frequent possessive construction in these data is the postnominal possessive without the definite suffix on the noun, i.e., N_{indef}-POSS. This construction makes up almost half of all the possessives in the data, 46.1%. As mentioned above, these are grammatical when the noun is a very frequent kinship term. Such nouns are often used in this material, and some typical examples are given in (35).

- (35) *dotter mi, sønn hans, mor våre, bæssfar min* (1M Blair)
daughter my, son his, mother our, grandfather my

Some of these examples, 14.4% (30/209), are ungrammatical, however, illustrated in (36)–(37). In Section 7 we discuss some possible accounts of these examples in the data.

- (36) **søskenbarn vårt, *onkel vårres* (4M Coon Valley)
cousin our, uncle our
- (37) **forelder dems* (1M Decorah)
parents their

6.4 Possessive constructions with prenominal possessives

According to Hypothesis B, the prenominal possessive constructions should be more frequent in the data of the Norwegian-Americans than in the Norwegian corpora, but as we saw in Table 3, this is not the case. In fact, the prenominal possessive is somewhat less frequent than in the Norwegian corpus material discussed in Section 2. A closer investigation of these constructions in the data of the heritage speakers reveals that most of these POSS-N constructions (73.3%, 66/90) are found in the data of only three informants, who produce almost exclusively prenominal possessives. This is illustrated in Table 4, and (38) provides an example.

Table 4. Informants producing mainly POSS-N.

Informant	N	%
1F Harmony	17/28	60.7%
3M Westby	28/29	96.6%
6M Spring Grove	21/21	100%

- (38) *Min bestemor, je kan ikke huske at jeg hørte henne si*
My grandmother, I can not remember that I heard her say
'My grandmother, I can't remember hearing her say
ett engelsk ord.
one English word
a single English word.'

The remaining examples of prenominal possessive constructions (24/90) are produced by as many as 16 informants, which means that most of the speakers produce only one or two examples, and that as many as 14 speakers do not produce a single example of POSS-N. Furthermore, most of these prenominal possessive constructions are of the type that may not appear with postnominal possessors, such as the fixed expressions in (39) or (40), the latter in fact being a direct translation of an English expression and ungrammatical in Norwegian.

(39) *i mi tid* (**i tida mi*)
in my time

(40) **alt mitt liv*
all my life

6.5 Some questions

Given these results, it is natural to ask some further questions about the data: First, is there a difference between the three informants who use almost exclusively prenominal possessives compared to the majority of speakers who virtually only produce postnominal ones? Second, is there anything in the conversations with these three speakers which indicates that they had a bigger challenge than the others when speaking Norwegian, i.e., are the conversations more demanding in that the speakers have to use nouns that are more infrequent compared to the nouns appearing in the conversations with the other informants? Furthermore, is there any indication in the data that these Norwegian-American speakers master the pragmatic distinction between the two word orders? Alternatively, could it be that they are in fact doing the opposite of the bilingual children, i.e., that they have a preference for the postnominal possessive construction and use it also in contrastive contexts where the prenominal possessor would be more natural? This would open up an interesting issue from the point of view of the regression hypothesis discussed by Johannessen (this volume). This hypothesis predicts that structures that are acquired late should be lost early, while structures that are acquired early should be lost late in language attrition. Johannessen studies determiners and verb placement in an attrited speaker of heritage Norwegian and finds some support for the regression hypothesis, while our results point in the opposite direction.

Unfortunately it is impossible to answer the last question due to limitations in the data. First, it is difficult to identify clearly contrastive contexts in these conversations. Second, in oral speech it is always possible to use prosody to express contrast by adding stress on the possessor, as in (41), cf. Lødrup (2012). It is therefore unclear whether the Norwegian-American informants are any different from the adults in the two Norwegian corpora in the sense that they overuse the postnominal possessor construction.

(41) *bilen MIN*
car.DEF MY
'MY car.'