

ON MALE AND FEMALE SPEECH AND MORE:
CATEGORICAL GENDER INDEXICALITY
IN INDIGENOUS SOUTH AMERICAN LANGUAGES¹

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Indexing the gender of the speaker or the addressee within any type of sentence is often considered as sociolinguistic variation rather than as a gender-exclusive rule. This paper presents a survey of categorical (rather than statistical) gender indexicality in grammar with the greatest number of languages to date. It also offers a data-informed typology of categorical gender indexicality based on 41 indigenous South American languages, aimed at encouraging and facilitating research on genderlects. Examples are classified according to which speech-act participants have their gender indexed and in which area of the grammar (lexicon, discourse markers, phonology, morphology). The main findings are, first, that categorical gender indexicality in the grammar is more frequent than thought and, second, that the weight of gender indexicality within a language is correlated to the domain: it is limited in the lexicon, more present with discourse markers, and pervasive at the phonological and morphological levels.

[KEYWORDS: gender indexicality, genderlect, grammatical gender, male/female speech, South America]

1. Introduction. Some languages show grammatical variation depending on the gender of the speech-act participants.² That is, the gender of the speaker and/or the addressee determines some aspect of the phonology, lexicon, or morphology of a language (Adam 1879, Frazer 1900, Haas 1944, Sapir 1929/1963, and Bodine 1975). “Particular language usages are said to belong to the realms of men’s vs. women’s speech, appropriate variations in saying otherwise ‘the same thing’ indexing gender identities in the speech situation” (Silverstein 1985:223). This phenomenon is labeled gender indexicality (Levinson 1983:89 and Silverstein 1985:233). Most often, it is the gender of the speaker that is indexed, and this is commonly referred to as “male/female speech.”

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² Gender is a socially constructed classification of people built on the basis of the biological difference between males and females, but not completely identical to it (Oakley 1972). “The word gender . . . refers to the complex of social, cultural and psychological phenomena attached to sex, a usage common in the behavioral and social sciences” (McConnell-Ginet 1988).

Gender indexicality functions on the pragmatic level. Like other kinds of social indexicality, “it does not matter what is being said, nor whom or what is being referred to; the indexical forms mark something about the context in which they are used” (Silverstein 1985:233). Gender indexicality thus refers to the fact that a word can have its basic denotation and in addition point to (index) the gender of one or several speech-act participants (the speaker, the addressee, or both).³ These speech-act participants do not have to be involved as participants in the event or state expressed by the utterance. In the Garifuna examples in (1)–(3), the same meanings are expressed with completely distinct word forms according to the gender of the speaker, symbolized in the translations with the biological symbols ♀ and ♂.⁴

- (1) würinauga/gúñaru Garifuna (de Pury 2003)
 ‘yesterday ♀/yesterday ♂’⁵
- (2) uá/inó
 ‘no ♀/no ♂’
- (3) hiñaru/würi
 ‘woman ♀/woman ♂’

In Garifuna, the locus of gender indexicality is the lexicon, but it can be the phonology or morphology in other languages.

Gender indexicality is quite distinct from grammatical gender, which indicates the gender of a referent. Grammatical gender is a grammatical classification of nouns visible in agreement patterns (Corbett 1999). It is generally based on the social gender of the referent when human, but the gender categories can also extend to non-humans. For instance, Garifuna shows grammatical gender besides gender indexicality, as in (4) and (5).

- (4) wáirit-**i** aunli **lé** Garifuna (de Pury 2003)
 big-3M dog 3M.DEICT
 ‘This (male) dog is big’.

³ Basque is unique in having markers that index the gender of the addressee without carrying a referential or grammatical meaning.

⁴ These symbols refer to the gender of the speaker (♀ = female, ♂ = male) or that of the addressee (ADD♀, ADD♂). Symbols referencing speaker or addressee are usefully distinct from abbreviations for grammatical gender (M = masculine, F = feminine).

⁵ Abbreviations used in this paper are: ♀ = female speaker; ♂ = male speaker; ACT = active; ADD = addressee; ART = article; ASS = assertive; CLF = classifier; COP = copula; COREF = coferential; DEICT = deictic; DEM = demonstrative; DET = determiner; DISC = discourse marker; EXCL = exclusive; F = feminine; FOC = focus; FUT = future; IMPF = imperfective; INCL = inclusive; IND = indicative; INDEF = indefinite; INVIS = invisible; IO = individual verification, observation orientation; LC = linking consonant; M = masculine; N = n-prefix; NH = non-human; NOM = nominalizer; PAST = past; PF = perfective; PL = plural; PREP = preposition; PRO = pronoun; PROX = proximal; QM = question marker; REL = relational; REP = repetitive; RPT = reportative; S = intransitive subject; SG = singular; SIMIL = similitive; TAM = tense aspect mood.

- (5) wáirit–**un** aunli tó
 big–3F dog 3F.DEICT
 ‘This (female) dog is big’.

Grammatical gender is not visible in the noun, but modifiers such as adjectives and demonstratives agree in gender with the head noun.

Linguistic distinctions depending exclusively on the gender of the speech-act participants are considered to be rare and mostly limited to the Americas (Fleming 2012:297). The largest study on the issue (Fleming 2012) lists only 17 known cases of gender indexicality in the Americas, 11 from North America and 6 from South America, and 3 outliers from the rest of the world.⁶ Some of the best-known examples from around the world are Basque (Alberdi 1995), Chukchee (Dunn 2000), and Japanese (Shibatani 1990).⁷ In South America more specifically, gender indexicality is also supposedly rare, even according to specialists in the area. For instance, the most recent areal volume on Amazonian languages (Aikhenvald 2012) mentions only two languages with this peculiarity. Gender indexicality is worth studying, not only because it is rare and “exotic” but also because its relation with grammatical gender and social gender is a crucial aspect of the language–culture nexus: as Silverstein (1985) puts it, it is at the intersection of structure, usage, and ideology. Papers on gender indexicality usually favor discussion of the social correlates of gender indexicality (among others McConnell-Ginet 1988, Ochs 1992, and Romaine 2003) or its possible genesis (Taylor and Hoff 1980 and Dunn 2000). While very interesting, the social use of this phenomenon as well as its origins is beyond the scope of this paper.

The first aim of the present study is to survey genderlects, i.e., linguistic variation according to the gender of the speech-act participants, in South America. Only a few specific studies have been undertaken on this topic, though it is often mentioned in individual grammar descriptions. One important finding of my research is that this phenomenon, though marginal, is less rare than usually thought: the survey shows that some instantiation of this phenomenon is (or was) found in at least 41 South American languages belonging to 13 different stocks and one isolate. Here I shall show how diverse these 41 languages are in terms of quality of description, geographic distribution, genetic affiliation, degree of indexicality, and locus of indexicality.

A second objective is to provide a data-informed typology of such systems, to serve as a resource to spur on more (and more accurate) accounts of gender indexicality. This paper thus builds an inventory of loci of gender indexicality (the domains of grammar in which gender of the speech-act participants

⁶ The three outliers are Kūrux (Dravidian), Chuchkee (Chukotko-Kamtchakan), and Yanyuwa (Pama-Nyungan).

⁷ Additional case studies are presented in Dunn (2014) and Bakker (2013).

TABLE 1
TYPES OF GENDER INDEXICALITY

Type 1	Gender of the speaker
Type 2	Gender of the addressee
Type 3	Relational gender

Adapted from Haas (1944).

is indexed) and classifies languages according to the loci where they index gender. A significant finding in that respect is that the pervasiveness of gender indexicality within a language is correlated to the domain of indexicality. For instance, lexical distinctions are usually limited to a few items. In contrast, the distinction is very robust when instantiated at the phonological or morphological level.

After a general introduction to the diversity of gender indexicality in **2, 3** presents a survey of categorical gender indexicality in South America. Section **4** classifies the languages of the survey in terms of which speech-act participants have their gender indexed (the speaker, the addressee, or both). Section **5** then offers a typology of the loci of gender-of-speaker indexicality and makes some generalizations on the loci and the degree of gender indexicality. Section **6** explains some difficulties in surveying gender indexicality systems, summarizes the results, and underlines the major findings of the paper.

2. The parameters of gender indexicality. In this section, I categorize the great diversity of phenomena referred to as gender indexicality, with the help of four parameters:⁸

- (i) gender of the speaker vs. the addressee vs. both
- (ii) locus of gender indexicality
- (iii) categorical vs. statistical gender indexicality
- (iv) non-referential vs. referential gender indexicality.

The first parameter of diversity within gender indexicality relates to which participants of the speech situation have their gender indexed. The typology given in table 1 has been suggested by Haas (1944).

Type 1 gender indexicality, i.e., indexicality of the gender of the speaker, has been exemplified in (4) with examples from Garifuna. An additional

⁸ A fifth parameter could be markedness: can one of the variants be analyzed as equivalent to the other in terms of complexity? Or as derived from it via addition, elision, etc.? Or as being restricted to one genderlect and nonexistent in the other? A sixth parameter could be the historical relation of the two co-existing linguistic forms: is one historically derived from the other? Or innovated? These questions lead to investigating the development of gender indexicality systems and are beyond the scope of this paper (see the questionnaire in Appendix B).

example from outside the Americas is the Thai polite particles, *khá?* or *khâ?* for women, *kháb* for men.

Type 2 gender indexicality, i.e., indexicality of the gender of the addressee, can be exemplified by Basque (6), “where the addressee is encoded in the verb form even when it is not an argument in the sentence” when speaking to a familiar addressee (Alberdi 1995:276).⁹

- (6) *diagok* / *diagon* / *dago* Basque (Alberdi 1995:276)
 3s.stay.ADD♂ / 3s.stay.ADD♀ / 3s.stay
 ‘he/she/it stays (male familiar/female familiar/formal addressee)’

There is no such distinction in Basque formal speech.

Type 3 gender indexicality is the indexicality of relational gender, that is to say of both the speaker and the addressee. This type is much rarer. It has, for instance, been described in Yana (Sapir 1929/1963), where lexical items have two phonologically different forms. One is used to speak among males (like *sika·ka* ‘quail’, *yuna* ‘acorn’), the other to address females or for females to address males (*sika·k^hA* ‘quail’, *yuh* ‘acorn’). Most of the literature accounts for Type 1, which seems by far the most frequent type and is frequently labeled “male/female speech.”¹⁰ This term unhappily suggests a diglossic variation covering all domains of the language. The term “male/female speech,” as well as the less frequent term “genderlect,” can also ambiguously refer to statistical indexicality (see below).

A second parameter is the locus of gender indexicality, i.e., the domain of the language or the use in which it is instantiated. Günthner (1996) lists the major speaking practices that can index gender: grammar (phonology, morphology, syntax, lexicon), pitch, choice of languages or varieties, communicative styles, discourse strategies, and discourse genres. This paper is concerned only with the first domain—gender indexicality in the grammar. Section 5 classifies the data in the survey with respect to four different loci within grammar (lexicon, discourse markers, phonology, and morphology).

The third parameter is whether gender indexicality is categorical or statistical. Categorical indexicality implies that a linguistic form indexes exclusively one gender (of speaker or addressee), and another form exclusively indexes the other gender.¹¹ So gender is obligatorily indexed. This was the case in the

⁹ The term “allocutivity” is traditionally used for this phenomenon in Basque. A recent cross-linguistic study of allocutivity (Antonov 2015) surveys situations in which “an addressee who is not an argument of the verb is systematically encoded in all declarative main clauses conjugated verb forms.” It includes cases other than Type 2 gender indexicality, because the verbal indexing of arguments does not necessarily encode gender cross-linguistically.

¹⁰ French *parler des hommes/des femmes*, Spanish *habla varonil/ mujeril; habla masculino/ femenino*, Portuguese *fala feminina/masculina*.

¹¹ In Type 3 gender indexicality, the gender of both the speaker and addressee is indexed. The distinction is therefore not binary but still exclusive.

Garifuna examples (1)–(3). Statistical indexicality only implies a tendency of association of one form to a gender. A well-known case study is that of Lakoff (1973) on women’s language and the way women are addressed in English. Some linguistic features are primarily used by women, such as certain nouns, adjectives, and exclamations; tag questions; rising intonation at the end of declaratives; politeness forms and excuse formulas; and correct grammar; while taboo-words and swear-words are avoided. These characteristics are statistical, in that none of them is sufficient to predict the gender of the speaker or the addressee.¹²

A common viewpoint is that gender indexicality is always statistical, and thus always pertains to the interaction of social status and discourse rather than to grammar (Ochs 1992 and Trechter 1995). Other studies on gender indexicality nevertheless argue that some systems can be considered to be grammaticalized, in that they are categorical, obligatory, stable, ubiquitous, and consciously assumed as gender-based in the metalinguistic discourse of the speakers (Silverstein 1985:234, Fleming 2012, and Ribeiro 2012). This paper focuses on categorical indexicality.

A fourth parameter is whether the element that indexes gender refers to speech-act participants or not. So gender indexicality is further categorized into referential and non-referential gender indexicality (for a detailed discussion, see Fleming 2012 and Rose 2013*a*). Referential gender indexicality is found when elements that are pragmatic indexes themselves, i.e., pronouns or deictics referring to first or second person, have distinct forms for a male or a female referent. Gender is then both indexical and referential.¹³ Non-referential gender indexicality occurs in utterances where the denotational meaning does not necessarily include the speaker and/or the addressee, as in (1)–(3) above. This paper covers both referential and non-referential gender indexicality.

Within this diversity of gender indexicality phenomena, this paper is specifically concerned with categorical gender indexicality as found in the grammar of indigenous South American languages. Here I am not concerned with cases of statistical indexicality, nor with implementation other than in the grammar.

¹² It is in fact now generally asserted within sociolinguistic studies that statistical gender indexicality cannot be separated from other social factors and must be dealt with in terms of social indexicality.

¹³ A related caveat is that languages with grammatical gender may sometimes look as if they were indexing the gender of the speaker or the addressee, in sentences including first or second person. The use of grammatical gender in agreement with first or second person (as in French *je suis français/française* ‘I am French’) is therefore regarded as insufficient to speak of gender indexicality. The distinction *français/française* accounts for the gender of the subject in the examples given, and not for the gender of the speaker, as shown by the agreement with a third-person subject (*il est français/elle est française* ‘he/she is French’), whatever the gender of the speaker.

I cover the three types of gender indexicality and both referential and non-referential gender indexicality.

3. A survey of categorical gender indexicality in South America.

3.1. Methodology of the survey. The first aim of the survey is to give as comprehensive a list as possible of languages from South American families exhibiting categorical gender indexicality. Thus, it includes extinct languages and languages which no longer index gender, without implying a diachronic perspective. The criteria for including a language in the survey is that it was said to index gender in the grammar in a categorical manner, by at least one author, at one point in time. When possible, such claims were verified by consulting additional sources or specialists. Languages were excluded from the survey when the variation was presented as statistical (“women use more frequently. . .”) or due to an additional factor more robust than gender (“some women use X, they all come from Y region”). Therefore, the indexicality systems of the survey are based solely on social gender, except for data from two languages. In Chipaya (Cerrón-Palomino 2006), variants refer to gender, age, and intimacy (see 4.2 below). In Kadiwéu (Sandalo 2011), variants refer to the dialect of noble women, that of noble men, and that of non-noble men (see 5.3 below). I then constructed a database, indicating for each language its location (country and geographic coordinates), genetic affiliation, source of information and whether or not the source specifically focused on gender indexicality, type of gender indexicality (1–3), and locus of indexicality. A condensed version of the database is presented in Appendix A.

The existing surveys of gender indexicality in languages of the Americas (Fleming 2012) and languages of Brazil (Borges 2004) pointed me to nine languages: Chiquitano, also called Bésiro, Island Carib, Garifuna (Island Carib’s offspring), Kamaiurá, Karajá, Kayabi, Kokama, Pirahã, and Xavante.¹⁴ These languages are all indigenous to South America, except Island Carib (previously spoken in Dominica) and Garifuna (spoken in Belize and Honduras), but these are related to the Arawak family from South America and so are included in my survey. Starting with these and more specific surveys (Fabre 2004 and Costa and Oliveira 2011), the list of South American languages showing gender indexicality grew larger after investigating as many languages as possible through posting on discussion lists,¹⁵ reading areal studies (Adelaar 2004 and

¹⁴ Pirahã has been excluded from the survey, because gender indexicality in that language has been described as being statistical. Everett (1979) states that Pirahã’s allophones [j] and [b] of the phonemes /g/ and /b/ are used more frequently by female speakers and are restricted to familiar situations for male speakers.

¹⁵ <<http://lista.etnolinguistica.org/3304>>.

Aikhenvald 2012), and perusing grammars. Moreover, many colleagues, including specialists on sub-areas or linguistic families, were consulted.

Having arrived at a list of languages thought to be relevant to my survey, I then proceeded to examine gender indexicality in each. More or less detailed sources specifically focusing on gender indexicality have been published for only nine languages: Awetí, Chiquitano, also called Bésiro, Iatê, Island Carib, Garifuna, Kadiwéu, Karajá, Kokama, and Mojeño. These sources are given in boldface in Appendix A. For other languages in my survey, information was gleaned from a variety of sources. A major methodological problem in constructing the list of languages is that gender indexicality is often treated very superficially in grammars, with little discussion on the use of the systems and on possible paths of development. Gender indexicality may be “invisible,” with no mention in the table of contents or the index. This makes it very difficult to find data on gender indexicality in grammars. Moreover, some languages have only grammatical sketches; such data were used cautiously, though with less suspicion when they conformed to existing generalizations.

A second methodological problem is distinguishing gender indexicality from lexical or grammatical gender. This is discussed in detail in the sections on the relevant loci of indexicality: the lexicon (5.1) and the morphology (5.4).

Once the data were collected, the elements indexing gender in each language were analyzed in terms of the loci of indexicality. I have distinguished four loci—lexicon, discourse markers, phonology, and morphology—based on the range and type of data found in the sample. A similar classification of loci was used by Fleming (2012) in his survey of 17 languages of the Americas, and it seems to be valid cross-linguistically, according to the first results of a worldwide survey on categorical genderlects (Rose and Bakker 2014). Each locus groups together a number of languages, and generalizations are possible for each locus, as summarized in the conclusion.

3.2. Distribution of the indigenous South American languages with gender indexicality. The full list of the 41 South American languages showing gender indexicality is given with relevant information in Appendix A. This number shows that the phenomenon is not as rare as previously thought, though it nevertheless remains quite marginal with respect to the overall number of more than 400 languages in South America.

The 41 languages in the survey belong to 13 different (major and minor) families: Arawak (4 languages), Barbacoan (1), Carib (4), Guaycuru (4), Hibito-Cholonan (1), Lule-Vilela (1), Macro-Jê (8), Nadahup (1), Nambikwara (1), Tacana (1), Tucano (1), Tupi (11), and Uru-Chipaya (1). Also included is the language isolate, Pumé.

A genderlect distinction has never been reconstructed for any of the above-mentioned families. In fact, gender indexicality tends not to function within the same family in comparable ways. For example, within the Jê branch of the

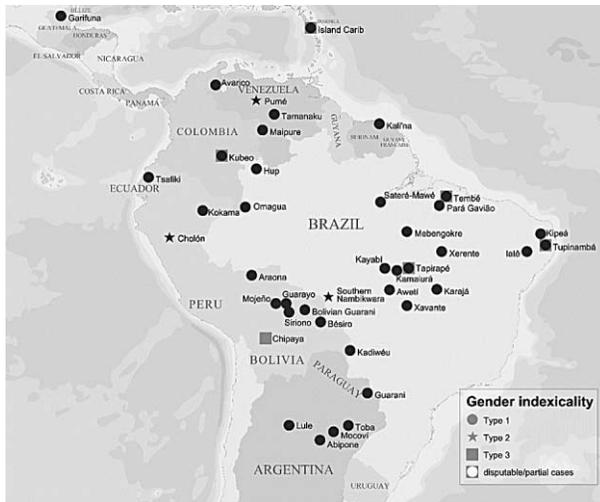


FIG. 1.—Distribution of gender indexicality in South America. This map was produced by Sébastien Flavier.

Macro-Jê family, Karajá indexes the gender of the speaker in the phonology, and four other Jê languages do so in discourse markers (Costa and Oliveira 2011).¹⁶ However, the four Carib languages under study all show the same gender distinction in some sort of discourse particle, and the Tupi languages mark gender distinctions in their interjections (see 5.2). The issue of whether gender indexicality can be inherited still remains to be investigated.

The 41 languages of the survey are mainly found in Brazil and Bolivia, though this survey also includes languages from Argentina, Paraguay, Peru, Colombia, Ecuador, Venezuela, Surinam, Guyana, French Guiana, Belize, Honduras, and Dominica.

As seen in the map in figure 1, there is a concentration of languages with gender indexicality in the Amazon basin. (A color version of this map appears in Appendix C, which is available online only.) Within this area, two zones are particularly rich in gender indexicality: lowland Bolivia and the Upper Xingu region. This is probably only due to the fact that they are areas with a high density of languages. Beside Amazonia, the study includes five languages of the Chaco: Abipone, Kadiwéu, Lule, Mocoví, and Toba. In contrast, only one language from the Andes is known to have gender indexicality (Chipaya) and none (to my knowledge) from the Southern Cone.¹⁷ A few languages spoken

¹⁶ Within these four languages, only one pair of forms seems to be shared by two languages.

¹⁷ It is also possible that Amazonia and the Chaco may have a similar proportion of languages with gender indexicality as other regions in South America, but that the overall numbers are

outside of Amazonia still belong to Amazonian families, for example, the reportedly Macro-Jê language Chiquitano/Bésiro spoken in southern Bolivia, Bolivian and Paraguayan Guaraní from the Amazonian Tupi family, and the two mixed languages of Arawak origin—Island Carib, formerly spoken in the Western Indies, and Garifuna, spoken in Belize, Honduras, and in the diaspora in the United States.

Dunn (2014) suggests that “there are hints that high levels of gender variation in language may be an areal feature e.g. in Amazonia.” Many Amazonian languages share some features across linguistic families (Derbyshire and Pulum 1986 and Dixon and Aikhenvald 1999), and an Amazonian “type” has been sketched (Aikhenvald 2007). There is, nevertheless, no strong support for Amazonia as a linguistic area, and only some support for a larger area comprising adjacent areas (Payne 1990 and Constenla Umaña 1991). Also, it has been suggested that the Chaco is a linguistic area (Comrie et al. 2010). Calculating the areal frequency of gender indexicality is uncertain, because it crucially depends on the quality and the availability of the descriptions. Gender indexicality could well be a more frequent feature in South America, and particularly in Amazonia and the Chaco, than elsewhere in the world. While the present survey lists 41 languages with genderlects out of more than 400 languages from South America, a worldwide survey in construction revealed to date only 57 cases in the rest of the world, out of more than 6,000 languages (Rose and Bakker 2014). This is clearly statistically anomalous and likely not to be due only to the more advanced stage of the South American survey than that of the worldwide survey. Gender indexicality in Amazonia and the Chaco region, nevertheless, remains marginal and is not characteristic of the region as a whole. Additionally, there is no strong case in the literature for gender indexicality having been diffused.¹⁸ And importantly, as mentioned above, some sporadic cases are attested elsewhere in the world.

4. Types of categorical gender indexicality in South America. As shown in table 2, it is quite clear that the prevalent pattern in South America is that of the “male/female speech distinction”: among the 41 languages of the survey, 37 languages index the gender of the speaker (Type 1). Only three languages index the gender of the addressee (Type 2). Only five languages index relational gender (Type 3), though four of these languages (given in parentheses in the table) also exhibit Type 1 phenomena, indexing relational gender only in a few items.

higher because there are simply more languages with decent descriptions. This proportion is quite difficult to estimate.

¹⁸ Rose (2015) investigates the hypothesis that the Mojeño genderlect distinction has been borrowed or, more precisely, that the forms of one of the genderlects have been borrowed; however, there is a lack of strong evidence for this hypothesis.

TABLE 2
TYPES OF GENDER INDEXICALITY IN SOUTH AMERICA

Type 1	Gender of the speaker	37	All of the languages in the survey (see Appendix A), except the four listed below
Type 2	Gender of the addressee	3	Cholón, Pumé, Southern Nambikwara
Type 3	Relational gender	1 (+4)	Chipaya (Kubeo, Tapirapé, Tembé, Tupinambá)

Type 1 phenomena are well attested in the survey, and a thorough discussion of gender-of-speaker indexicality is presented in 5 below. The remainder of this section focuses on Type 2 and Type 3 gender indexicality, for which fewer generalizations are possible due to the scarcity of data.

4.1. Type 2: gender of the addressee. The survey uncovered only three languages that index the gender of the addressee: Southern Nambikwara, Pumé, and Cholón. Southern Nambikwara is an Amazonian language spoken in Brazil.¹⁹ Pumé and Cholón belong to the Andean sphere, away from the core of the Amazonian basin where most genderlects of South America are found. In the three languages, the gender of the addressee is indexed in the morphology.

Bodine (1975:140) has claimed that no language differentiates only the gender of the addressee, and not that of the speaker, except in direct address (second-person pronouns or vocatives). Cholón supports this claim. It shows a referential gender indexicality system, indexicalizing gender in the second person and vocative markers only. Southern Nambikwara and Pumé contradict this claim. They show a non-referential gender indexicality system: Southern Nambikwara indexicalizes gender in the aspectual morphology and Pumé in the person and mode morphology.

The Peruvian language Cholón is the only known example of Type 2 referential gender indexicality in South America.²⁰ Gender indexicality in Cholón is referential, because gender is restricted to second-person pronominals (7) and vocative markers (8).

- (7) **mi**-kt^sok/**pi**-kt^sok Cholón (Alexander-Bakkerus 2005:131, 309)
 2SG.ADD[♂]-box/2SG.ADD[♀]-box
 ‘your box (male addressee)/your box (female addressee)’

¹⁹ Southern Nambikwara is a dialect complex. According to Kroeker (2001:1), the various bands of the Southern Nambikwara nation “all speak a dialectic variant of the same language, which is mutually intelligible with all the other variants.”

²⁰ A cross-linguistic study of gender in first- and second-person pronouns notes that Iraqw (Cushitic) and Minangkabau (Austronesian) also show Type 2 referential gender indexicality (Rose 2013a).

- (8) inča-m-**ma**/inča-m-**pa**
 what-QM-ADD♂/what-QM-ADD♀
 ‘Hey man/woman, what is the matter?’

In Southern Nambikwara (Kroeker 2001 and Fabre 2004), four verb-final suffixes express both the gender of the addressee (male or female) and aspect (perfective or imperfective):²¹

- (9) wxā³-na¹-tu¹-**wa**² Southern Nambikwara (Kroeker 2001)
 come-1SG.IO-FUT-IMP.F.ADD♂
 ‘I will come (male addressee)’.
- (10) wxā³-na¹-tu¹-**ʔa**²
 come-1SG.IO-FUT-IMP.F.ADD♀
 ‘I will come (female addressee)’.
- (11) yxau²-na³-**la**²
 stay-EQUATIONAL-PF.ADD♂
 ‘He is here (male addressee)’.
- (12) yxau²-na³-**na**²
 stay-EQUATIONAL-PF.ADD♀
 ‘He is here (female addressee)’.

Pumé, previously called Yaruro, is a language isolate of Venezuela (García 2000). The gender of the addressee is indexed in more than 100 forms expressing the person of the subject, the object, the possessor, and the mode (Mosonyi 1966).²² Examples (13) and (14) illustrate indexical gender of the addressee: the same sentence is expressed differently depending on the gender of the addressee, as visible in the two forms of the person clitic for the third-person feminine singular subject morpheme.²³

- (13) iǎí jǐní jará **ní** Pumé (García 2000)
 woman the drink 3F.SG.ADD♀
 ‘The woman drinks (female addressee)’.
- (14) iǎí jǐní jará **né**
 woman the drink 3F.SG.ADD♂
 ‘The woman drinks (male addressee)’.

Besides these three clear cases of Type 2 gender indexicality, a further case from Island Carib remains disputed. It is generally considered to depend on the

²¹ Numbers indicate tones.

²² Mosonyi’s data was kindly made accessible to me by José Alvarez as a Toolbox database.

²³ Pumé also has grammatical gender: the clitics in (13) and (14) refer to the feminine subject. The interaction of grammatical gender with indexical gender is treated in 5.4.

apparently restricted to intimate use between a man and his wife. It seems from the description that children and intimate females are social genders.²⁴

In Kubeo and at least three Tupi languages (Tembé, Tapirapé,²⁵ and Tupinambá), some discourse markers index the gender of the speaker (Type 1), but a few other discourse markers index relational gender (Type 3). For instance, among the Tupinambá discourse particles, some are used exclusively or predominantly by speakers of one gender, illustrating Type 1: the common word for ‘no’ is *aan* or *aan-i*, while *aan-i reĩ* is used exclusively by men and *aan-i reá* by women. Other Tupinambá discourse particles are used only from man to man, illustrating Type 3: *hẽ!* ‘hi!’, used among men (Barbosa 1956:45–46).

A general remark can be made about Type 3 gender indexicality, based on South American languages as well as other well-known cases like Yana and Biloxi. Four forms would be expected to constitute a symmetric system of relational gender indexicality systems, because two binary parameters are combined—the gender of the speaker and that of the addressee. Remarkably, no language is known to conform to this model. Bodine (1975:142) noted that no language with Type 3 gender indexicality differentiates the four possible configurations, and South American data reinforces this claim. Yana shows only two forms (one among males and the other for all other situations), as exemplified in **2** above. Biloxi (Haas 1944) has three forms (one used among males, a second one used among females, and a third one used by either a male or a female speaking to a female). Although Chipaya has four forms, they are arranged in an asymmetric system involving parameters other than gender per se.

5. Loci of gender-of-speaker indexicality. Gender indexicality can also be classified according to the locus of indexicality, i.e., the domain where gender is indexed. The survey distinguishes four different loci: lexicon (**5.1**), discourse markers (**5.2**), phonology (**5.3**), and morphology (**5.4**).²⁶ Discourse markers (including interjections) have been set apart from the lexicon and the morphology, because they are a particularly common locus and many languages of the survey show gender indexicality in this locus only. The relative importance of each type of locus is discussed in

²⁴ This four-form system of relational gender indexicality was simplified in the expression of the imperative, now reduced to a two-form distinction depending on the gender of the addressee (Type 2), with *-a* ‘imperative male addressee’ and *-um(a)* ‘imperative female addressee’ (Cerrón-Palomino 2006:151).

²⁵ The specific meaning of the sentence-final discourse particle of Tapirapé is not explicated.

²⁶ One difficulty encountered in classifying phenomena into these four loci is the fuzzy boundaries of the “discourse marker” category. For instance, “connectives” could have been placed under the lexicon, and “illocutionary” particles are functionally very similar to the mood suffixes discussed in the morphological section.

TABLE 3
LANGUAGES WITH GENDER INDEXICALITY OF SPEAKER IN THE LEXICON

Languages with gender indexicality of speaker in lexicon	8	Awetí, Garifuna, Guarayo, Island Carib, Kadiwéu, Siriono, Xavante, Xerente
Languages with gender indexicality of speaker in lexicon ONLY	1	Siriono

5.5. The present section deals with the loci of Type 1 gender indexicality only and is therefore based on a sample of 37 languages indexing the gender of the speaker.

5.1. Lexicon. The survey shows that lexical distinctions encoding the gender of the speaker are found in seven languages (see table 3). Besides the remarkable case of Island Carib discussed below, lexical distinctions generally concern only a few items in a language. For example, only one item shows a gender-based lexical distinction in Xavante:

- (19) *tiha/marĩ* Xavante (Machado Estevam 2011)
‘thing ♀/thing ♂’

Lexical distinctions are shown for one item in Xerente and Guarayo (Megan Crowhurst, personal communication), a few items in Awetí (Drude 2002) and Siriono, up to 26 items in Kadiwéu (Souza 2012), and around 50 items in Garifuna (de Pury 2003). Lexical distinctions are used in everyday speech and are semantically and formally unpredictable. They can be restricted to a sub-category of words like animal and plant names in Siriono (Schermaier 1957 and Noé Gasparini, personal communication).

Island Carib is unusual in that the gender-indexing distinctions exist for many lexical items. De Goeje (1939) has analyzed 2,809 words from Breton’s (1665/1999) work. Of the 2,547 words that are not borrowed from either Spanish or French (these are not specified for gender of the speaker), 1,610 words (63%) are common to both sexes, 554 (22%) are used only by men, and 383 (15%) only by women. These numbers show that over one-third of this large lexical sample indexes the gender of the speaker. Out of a list of 100 basic lexical items, Taylor (1956) counts that 41 items of vocabulary are common to male and female speakers (30 of Arawak origin and 11 of Carib origin) and 59 items are expressed through different words by females and males, those of females being predominantly of Arawak origin and those of males of Carib origin.²⁷ Island Carib is a mixed language, with many elements

²⁷ It is actually hypothesized that the source for the Carib items in Island Carib is a pidgin used as a vehicular language along the coast of South America and on the islands (Taylor and Hoff 1980).

from Carib having entered an Arawak language after some Carib men came to live among an Arawak group (maybe reduced to women), according to the prevailing theory (Taylor and Hoff 1980). The male/female suppletive forms can be explained by different sources of origin.

Dunn (2014) suggests that there are two types of gender-indexing lexical distinctions: “These may be cryptic variants of the same word, where men’s and women’s forms of the lexeme are clearly related but have some distinctive mutation. . . . There are also cases where men’s and women’s lexemes have no obvious etymological relationship.” The latter case was exemplified above with Xavante (19) and is obviously the case in Island Carib, in which the corresponding lexemes have not only different etymological sources but also different language sources. The former case can be exemplified with Kadiwéu and Awetí. In the list of Kadiwéu lexical pairs, I have detected frequent (though not completely regular) correspondences, such as the substitution by female speakers of a V_1CV_2 sequence with a V_2V_2 sequence. Specialists cannot point to the specific factor triggering this rule in a restricted subset of the lexicon (20–22), nor the phonological rules explaining other lexical pairs (23 and 24).

- | | | |
|------|---------------------------------------|----------------------|
| (20) | atemati/eemati
‘tell ♂/tell ♀’ | Kadiwéu (Souza 2012) |
| (21) | nopitena/niitena
‘arrow ♂/arrow ♀’ | |
| (22) | akami/aami
‘you ♂/you ♀’ | |
| (23) | eloadi/eemadi
‘kill ♂/kill ♀’ | |
| (24) | acipe/aaka
‘drink ♂/drink ♀’ | |

The results (a small number of languages with a small number of gender-indexing items) may seem to undermine common expectations about the importance of categorically distinct lexicon between men and women. In fact, I have collected many answers from researchers convinced that some languages index the gender of the speaker in the lexicon, especially in the kinship system. Therefore, two methodological caveats are called for at this point. First of all, some lexical items may include, in their semantics, information on the gender of a participant in the state of affairs. Thus, some verbs can refer to activities typical of men or women. This situation is regularly confused with gender indexicality, although it is logically independent from it. A nice illustrative example can be found in two successive analyses of

- (31) o–mēbir
 3COREF–daughter
 ‘her daughter ♀/♂’

(28) and (29) both refer to a feminine referent and thus seem to be distinguished according to the gender of the speaker. However, when the same roots are used with a third-person prefix, as in (30) and (31), it appears that the factor for the distribution of the two lexical roots is not the gender of the speaker but rather the gender of the possessor (the ego of the kinship relation). Consequently, *aḡir* should be glossed ‘daughter of a man’ and *mēbir* ‘daughter of a woman’.

This distinction between ‘daughter of a man’ and ‘daughter of a woman’ parallels that of ‘husband’ and ‘wife’ in English. All speakers can use both of these words even though ‘husband’ with a first-person possessor will generally be uttered by a female speaker and vice versa. As is recommended in the “Questionnaire” in Appendix B, it is crucial when researching gender indexicality not to elicit kinship terms only with a first-person possessor (or only in the vocative form, where a first-person possessor is implicitly involved), because it is impossible with such forms to know whether the gender distinction concerns the speaker or the possessor, since they both refer to the same person.

This confusion has already been mentioned in Fleming (2012:307). Nevertheless, Fleming considers that Bésiro (a language of Bolivia and Brazil previously known as Chiquitano) is one of the rare languages to encode the gender of the speaker in kinship terms, as was asserted by Adam and Henry (1880:6): “the man says *izai* ‘my father’ . . . , and the woman says *ixupu* ‘my father’.” Note that these terms are given with a first-person possessor.²⁹ In fact, as (32) shows, both male and female speakers can use the root *upu* that actually means ‘father of a female’ (both can use the root *ai* ‘father of a male’ as well).

- (32) n–i–y–upú n–i–po–sápa Bésiro (Sans, fieldnotes)
 N–3–LC–father N–3–house–SIMIL
 ‘the father of the (female) neighbor ♂/♀’

It can be concluded that so far no South American language is known to distinguish kinship terms on the basis of the gender of the speaker.³⁰ Gender indexicality in the lexicon is found in other semantic sub-parts of the lexicon but shows up as a rather rare and minor phenomenon in South American

²⁹ The prefix *i-* is used for both first and third person, but it is followed by a different linking consonant in these two contexts before vowel-initial roots.

³⁰ As an *IJAL* associate editor noted, in some groups, kinship terms are used overwhelmingly by ego (they mark endearment in address or reference), so that their use in discourse regularly indexes the gender of the speaker.

TABLE 4
LANGUAGES WITH GENDER INDEXICALITY OF SPEAKER IN DISCOURSE MARKERS

Languages with gender indexicality of speaker in discourse markers	29	Abipone, Avarico, Bolivian Guarani, Garifuna, Guarayo, Hup, Iatê, Kali'na, Kamaiurá, Karajá, Kipeá, Kokama, Kubeo, Lule, Maipure, Mebengokre, Mocoví, Mojeño, Old Guarani, Omagua, Pará Gavião, Sateré-Mawé, Tamanaku, Tapirapé, Tembê, Toba, Tupinambá, Xavante, Xerente
Languages with gender indexicality of speaker in discourse markers ONLY	20	Abipone, Avarico, Bolivian Guarani, Hup, Kali'na, Kamaiurá, Karajá, Kipeá, Lule, Maipure, Mebengokre, Mocoví, Old Guarani, Pará Gavião, Sateré-Mawé, Tamanaku, Tapirapé, Tembê, Toba, Tupinambá

languages, as summarized in table 3. This fits with Fleming's classification of languages with gender indexicality (16 American languages and 3 outliers), with only Island Carib indexing gender in the lexicon (Fleming 2012:300). Remarkably, it is the only locus of categorical gender indexicality in just one language of the survey, Siriono.³¹

To summarize, lexical distinctions are a locus of gender indexicality in seven languages only. These generally concern a few items in a language, except in Island Carib. The two variants may be completely independent or formally related. Contrary to a common idea, there is absolutely no attestation of kinship terms indexing gender.

5.2. Discourse markers. This section is concerned with gender indexicality in various types of discourse markers, including interjections, affirmative and negative words or particles, discourse particles (with illocutionary functions), routines and formulas, and connectives. Discourse markers are defined by their function of encoding the speaker's communicative intentions (Fraser 1996) and by their invariable form. They are treated separately from the lexicon or morphology because they are a very common locus of gender indexicality, often the only locus in the language (see table 4).³²

³¹ Siriono also showed a male/female alternation in the phonology (realization [d] ~ [r]) in the past, though it is not attested nowadays (Dahl [forthcoming] and Noé Gasparini, personal communication). However, since the distinction is presented as statistical (Schermair 1957:17) rather than categorical gender indexicality, Siriono is excluded from this survey.

³² A locus termed "illocutionary force operators" was used in Fleming (2012).

TABLE 5
EXAMPLES OF INTERJECTIONS INDEXING GENDER

	♀	♂	
Abipone (Najlis 1966:73) ¹	<i>aie</i> [aje]	<i>cio</i> [tʃio, tʃjo]	'ouch'
Bolivian Guaraní (Ortiz and Caurey 2012:20, 33)	<i>akaa ~ akai</i>	<i>achaa ~ achai</i>	'ouch'
Karajá (Ribeiro 2012:141)	<i>bi</i> <i>wu</i>	<i>bebe</i> <i>kí</i>	surprise, admiration vocative
Kipea (Mamiani 1699:116–17)	<i>amú</i> <i>aga ~ aganori</i>	<i>ari</i> <i>yahè</i>	'go away!' 'ouch'
Mocoví (Bucca 1981:233) ²	<i>laím</i>	<i>la'</i>	'hi!'
Mojeño (Marbán 1702:99)	<i>ese</i>	<i>ma</i>	admiration
Old Guaraní (Ruiz de Montoya 1640:206, 275, 289)	<i>acai ~ acái</i> <i>rare</i> <i>quĩ</i>	<i>awawawy</i> <i>ca</i>	'ouch' (pain) determination
Tapirapé (Walkiria Praça, p.c.)	<i>aky</i>	<i>akaj</i>	'ouch'
Tupinambá (Barbosa 1956:374–75)	<i>akaĩ</i> <i>kué ~ ahe</i> <i>gûĩ ~ gûé ~</i> <i>gûey</i>	<i>aké, aky</i> <i>îó</i> <i>îú ~ îó</i>	'ouch', fear, mockery terror vocative

¹ Willem de Reuse provided the IPA transcriptions given in brackets.

² This information was kindly provided by Pedro Viegas Barros.

Interjections are “relatively conventionalized vocal gestures (or more generally, linguistic gestures) that express a speaker’s mental state, action or attitude, or reaction to a situation” (Ameka 1992:106). In the survey, interjections are the most important sub-class within discourse markers in terms of number of items and number of languages. This is in line with the assumption by several authors that gender indexicality in interjections is cross-linguistically common (Balmori 1962:44, Shibatani 1990:371, and Ribeiro 2012:141). Various South American examples of gender-indexing interjections are given in table 5.

Of the different types of interjections noted by Ameka (1992), expressive and phatic interjections are the ones most relevant to gender indexicality in South American languages. Expressive interjections are symptoms of the speaker’s mental state. In the survey, they express pain, surprise, disdain, aversion, admiration, sadness, anger, shock, joy, fright, shame, or derision. They are found in Abipone, Bolivian Guaraní, Old Guaraní, Guarayo, Kali’na, Karajá, Kipea, Lule, Mojeño, Tapirapé, and Tupinambá. Expressive interjections indexing the gender of the speaker in the Tupi-Guarani branch of the Tupi family are also common and seem to be cognate. Phatic interjections are

TABLE 6
EXAMPLES OF DISCOURSE PARTICLES INDEXING GENDER

	♀	♂	
Abipone (Dobrizhoffer 1822: 2:197)	<i>hàà</i>	<i>héé</i>	‘yes’
Bolivian Guarani (Giannecchini 1898/1996:306, 310)	<i>éé</i>	<i>tà</i>	‘yes’
Garifuna (de Pury 2003:157)	<i>ayí</i>	<i>ayé</i>	‘yes’
	<i>uá</i>	<i>inó</i>	‘no’
Iatê (Costa and Silva 2005)	<i>jajop^h</i>	<i>ke:áfo</i>	‘thank you’
	<i>kōnefasa</i>	<i>kōnefāw</i>	‘but’
Kali’na (Odile Renault-Lescure, p.c.)	<i>se</i>	<i>wo</i>	intensive
	<i>li</i>	<i>la</i>	affirmation
Kamaiurá (Seki 2000:100–101)	<i>ma’e</i>	<i>pa</i>	exclamation, surprise
	<i>kyn</i>	<i>kwāj</i>	strong emotion
	<i>(he)kyn</i>	<i>ja</i>	self-evidence
Kokama (Vallejos 2010:649)	<i>yay</i>	<i>riay</i>	‘also’
	<i>iyān</i>	<i>urian</i>	‘but’
	<i>yaepe</i>	<i>raepe</i>	‘there, then’
	<i>yaepetsui</i>	<i>raepetsui</i>	‘after that’
Tembé (Bendor-Samuel 1972:156)	<i>ma</i>	<i>pa</i>	weak exclamation
	<i>rare</i>	<i>ra</i>	prediction, derision

those used in the establishment and maintenance of communicative contact. Such interjections, often called “vocatives,” are found in Bolivian Guarani, Karajá, Mocoví, and Tupinambá. There are also some rare examples of a conative interjection (i.e., an interjection directed at an addressee) in Kipea, Pará Gavião, and Xerente. Interestingly, the survey does not show gender indexicality in descriptive interjections, even though ideophones are a common category in Amazonian languages.

A second subset of discourse markers is often referred to as “discourse particles” in studies on Amazonian languages. They do not necessarily serve as discourse connectives but generally convey illocutionary force, with some possible additional epistemic meanings.³³ They are frequent in discourse and express emotion, illocutionary, or epistemic meanings that are difficult to define precisely. Typologically, they are distinguished from interjections by their inability to function on their own. Some examples are given in table 6.

³³ This use of the term “discourse particles” is contrary to the definitions given by Ameka (1992:107) for which “particles are typically used to express speaker attitudes or perspectives towards a proposition and to modify the illocutionary force of utterances,” while discourse markers or particles “indicate the way a speaker intends a subsequent discourse fragment to be related to the previous unit.”

TABLE 7
LANGUAGES WITH GENDER INDEXICALITY OF SPEAKER IN THEIR PHONOLOGY

Languages with gender indexicality of speaker in phonology	4	Araona, Guarayo, Kadiwéu, Karajá
Languages with gender indexicality of speaker in phonology ONLY	2	Araona, Guarayo

Discourse particles with general illocutionary force are found in three Carib languages (Avarico,³⁴ Kali'na, and Tamanaku) and in Kubeo. Gilij (1780–84:161) states that even if these three Carib languages do not have grammatical gender, they nevertheless have particles distinguishing the gender of the speakers, as shown in (33) and (34).

- (33) maje **uè** Tamanaku (Gilij 1780–84:161)
'Let's go! ♂'
- (34) maje **me** Tamanaku (Gilij 1780–84:161)
'Let's go! ♀'

Gender-indexing particles with additional meaning (like surprise in 35) are found in Kali'na, Kamaiurá, and Tembé (see table 6).

- (35) h-ajme-ma'e te 'aη **pa** Kamaiurá (Seki 2000:100)
3-be_sharp-NOM FOC PROX DISC(surprise)♂
'Wow, how sharp-edged this is! ♂'

Other types of discourse markers indexing the gender of the speaker are affirmative/negative words or particles, as found in Abipone, Bolivian Guarani, Garifuna, Guarayo, Mebengokre, Pará Gavião, Sateré-Mawé, Tembé, Toba, Tupinambá, and Xavante; routines or formulas, as found in Iatê; and connectives, as found in Iatê, Kokama, and Omagua. See table 6 for examples.

To conclude, gender indexicality in discourse markers is quite common but often restricted to only a few items, usually less than a dozen. Therefore, it is a rather minor phenomenon within these languages. The question of whether these double sets of discourse markers can be reconstructed for Proto-Carib and Proto-Tupi should be investigated further.

5.3. Phonology. Four South American languages have been described as indexing gender in their phonology (see table 7), and for two of them, it is the only locus of gender indexicality.

Two languages, Araona and Guarayo, have been described as indexing the gender of the speaker in the phonetic substitution of a single phoneme.

³⁴ This is a long-extinct language attested only in Gilij's work.

TABLE 8
LANGUAGES WITH GENDER INDEXICALITY OF SPEAKER IN THE MORPHOLOGY

Languages with gender indexicality of speaker in pronominal morphology	10	Awetí, Bésiro, Garifuna, Iatê, Island Carib, Kadiwéu, Kayabí, Kokama, Mojeño, Omagua, Tsafiki
Languages with gender indexicality of speaker in another type of morphology	4	Iatê, Island Carib, Kokama, Omagua
Languages with gender indexicality of speaker in morphology ONLY	3	Bésiro, Kayabí, Tsafiki

As mentioned in 5.1, this language is also thought to show gender-based phonological distinctions that are hard to describe synchronically, partly because the initial changes (probably deletion) have also led to further phonological evolution.

Despite the scant evidence of gender indexicality on the phonological level, two observations are possible. Phonetic substitution as a minor distinction tends to disappear when one of the phonetic realizations of the phoneme is adopted by the whole community of speakers. However, deletion may have further phonological consequences, making it difficult for sounds in certain words to undergo leveling, perhaps leading to lexical differences between male and female speakers.³⁹

5.4. Morphology. Eleven of the languages in the survey index the gender of the speaker in the morphology (table 8). These languages belong to various linguistic families and come from various geographic locations. Eight of these 11 languages have other loci of gender-indexing besides morphology.

Ten of these 11 languages index the gender of the speaker in the pronominal/reference system, i.e., in independent or bound pronominals and/or in the gender system. Most of this section is therefore devoted to describing gender indexicality in the pronominal/reference system. Fleming (2012) had already noticed a robust type of language with gender indexicality in grammatical categories that refer to humans (third-person pronominals, determiners, human nouns, gender, etc.). In my survey, four languages index the gender of the speaker in other parts of the morphology. They are discussed at the end of this section.

³⁹ This may be the case in Kadiwéu. This is also probably the case in the Atayal dialect of Mayrinax spoken in Taiwan. This dialect shows more than 100 lexical pairs indexing the gender of the speaker (Li 1983). These forms may be explained by numerous unpredictable phonological or morphological derivations classified under five different types, plus suppletion.

TABLE 9
PART OF THE PRONOMINAL SYSTEM OF KOKAMA

	♀	♂
1SG	<i>tsa, etse</i>	<i>ta</i>
1EXCL	<i>penu</i>	<i>tana</i>
3SG (M/F)	<i>ay</i>	<i>uri</i>
3PL (M/F)	<i>inu</i>	<i>rana</i>

Based on Vallejos (2010).

TABLE 10
PRONOMINALS INDEXING THE GENDER OF THE SPEAKER

Awetí	Bésiro ¹	Kayabí	Kokama	Mojeño	Omagua	Garifuna	Island Carib	Kadiwéu	Tsafiki
1SG			1SG 1EXCL	3SG.M	1SG 1EXCL	1SG	1SG	1SG	1SG
						2SG	2SG	2SG	
3SG	3SG.M	3SG.M 3SG.F	3SG		3SG				
3PL	3PL.M	3PL	3PL		3PL				

¹ In Bésiro, gender indexicality is found in specific clitics that co-occur with pronominal indexes (see below in text).

Kokama shows indexicality of the gender of the speaker in its pronominal system, in the first and third person (Vallejos 2010), as illustrated in table 9. The gender distinction in the third-person pronouns does not concern the gender of the referent but that of the speaker. There is no grammatical gender in this system.

Table 10 summarizes which persons in the paradigms of independent or bound pronominals index gender in 10 of the 14 systems under study. Three groups of languages can be observed. In the first six languages, gender is indexed in third-person pronominals (and in some languages in first-person pronominals as well), clearly distinguishing these systems from systems with grammatical gender.⁴⁰ The second group of languages—Garifuna, Island Carib, and Kadiwéu—index the gender of the speaker in first- and second-person pronouns only, and not in third-person pronouns. Importantly, when the second-person pronoun indexes the gender of the speaker, there is no difficulty in classifying these languages as having non-referential Type 1 gender indexicality, i.e., as

⁴⁰ Hunt (1937:14–15) suggests that the two sets of independent pronouns of Mataco (now called Wichí in Argentina), one used in polite or ordinary speech and the other in the intimacy of family life, are vestiges of an ancient system of male/female speech in all persons. In the absence of any data from this former stage, this language was excluded from the database.

TABLE 11
PRONOMINAL SYSTEM OF IATÊ

	M	F
1SG	<i>owe</i>	<i>o:so</i>
2SG	<i>awa</i>	<i>a:sa</i>
3SG	<i>sa</i>	<i>sasa</i>

See Costa and Silva (2005).

languages that index the gender of the speaker in forms other than those referring to the speaker (first-person pronominals). The third type of gender indexicality in pronouns is illustrated by Tsafiki (Dickinson 2002:65). It indexes the gender of the speaker only of the first person. It can be said to illustrate referential gender indexicality—the element that indexes the gender of a speech-act participant also refers to this person as a participant in the event or state. Referential gender indexicality is not well attested in my survey; it occurs in only two languages out of 41. Besides the Tsafiki Type 1 case of gender-of-speaker indexicality just mentioned, referential gender indexicality is also found in Cholón Type 2 gender-of-addressee indexicality (see 4.1).

These results are not surprising given that gender distinctions in the first and second person are rare cross-linguistically. Siewierska (2011) counted 124 languages with some gender distinction in the independent personal pronouns in a sample of 378 geographically and genetically diverse languages.⁴¹ Out of these, only 20 languages show a gender distinction in the first and/or second person, and two of these do not distinguish gender in the third person. Thus, not only is a gender distinction in the first or second person rare, but it is even rarer to find it without a distinction in the third person.

In the process of collecting data on gender indexicals, I have come across seven languages that show grammatical gender in the first or second person. Nasa Yuwe shows gender in first and second persons only. Itonama and Old Mocoví have gender in the second and also in the third person. Iatê, Kubeo, Ofaié-Xavánte, and Rikbaktsa show gender in the first and second persons and also in the third person. I have excluded these seven languages from the survey, since the gender distribution makes an analysis in terms of gender indexicality uselessly complex. For instance, in Iatê (table 11), all three persons show a gender distinction that seems to be morphologically analyzable (as a suffix *-sV* with vowel harmony), and thus it is more economical to consider a single distinction of grammatical gender (i.e., gender of the referent) rather than three different distinctions (indexicality of the gender of the speaker for first person, indexicality of the gender of the addressee for second person, and grammatical gender for third person).

⁴¹ See Rose (2013a) for a typology of systems with gender in first- and second-person pronouns in the languages of the world.

Unambiguous cases of gender indexicality may interact with grammatical gender, forming reference systems that are extremely complex to describe. Mojeño shows an interesting pronominal paradigm (visible in independent pronouns, verbal and nominal prefixes and suffixes, articles, and demonstratives). For third-person human singular referents, feminine and masculine are distinguished, but the form for masculine differs depending on the gender of the speaker (Rose 2013*b*; 2015).

- (42) **esu** n-kuñar-eni Mojeño (Rose, fieldnotes)
 PRO.F 1SG-sister_in_law-PAST
 ‘She was my sister-in-law ♂’.
- (43) **esu** s-omuire movimari’i
 PRO.F 3F-too movima-ASS
 ‘She also is a Movima ♀’.
- (44) **eñi** t-yono te to ewire-gne
 PRO.M♀ 3-go PREP.NH ART.NH away-very
 ‘He goes very far away ♀’.
- (45) **ema** ma-no-k-po to senda
 PRO.M♂ 3M♂-make-ACT-PF ART.NH path
 ‘He made the path ♂’.

All speakers use the same feminine independent pronoun *esu*, as in (42) and (43), but female and male speakers use different forms for the masculine independent pronoun, respectively *eñi* (44) and *ema* (45). Thus, in Mojeño, the gender of the speaker is indexed in the pronominal forms referring to a particular grammatical gender.

Also in Bésiro (better known as Chiquitano), gender indexicality is found in the marking of gender distinction. Female speakers make no gender distinctions, whereas male speakers use additional morphology for masculine only. Previously, this language has been described as showing gender indexicality at the phonological level, with the deletion of the initial phoneme of some nouns referring to humans (or animals), as in (46) and (47) (Adam and Henry 1880 and Schuchard 1986:98–99).

- (46) *ixaaaras/xaras* Bésiro (Adam and Henry 1880)
 ‘Spaniard ♂/Spaniard ♀’
- (47) *ñoñeís/oñeís*
 ‘man ♂/man ♀’

Pierric Sans (personal communication) argues that these pairs should in fact be interpreted in terms of morphological alternation. The female forms are the plain roots. The male forms are made up of the root and a masculine

prefix *i-*.⁴² Indeed, comparison with firsthand data shows that all the examples given by Adam and Henry are in fact masculine nouns. And indeed, Bésiro encodes masculine gender only in male speech, as illustrated below with more recent data. Male speakers, but not female speakers, encode masculine gender by adding a masculine clitic (= *ti* in the singular and = *ma* in the plural) to refer to a third-person male subject or possessor (48–50) (Sans 2013).⁴³

(48) ba-páche-ro=**ti** n-i-kisé-s Bésiro (Sans, fieldnotes)
3-look_for-TAM=3SG.M σ N-3-knife-DET
'He looks for her knife σ '.

(49) ba-páche-ro n-i-kise-s=**tí**
3-look_for-TAM N-3-knife-DET=3SG.M σ
'She looks for his knife σ '.

(50) ba-páche-ro=**ti** n-i-kise-s=**tí**
3-look_for-TAM=3SG.M σ N-3-knife-DET=3SG.M σ
'He looks for his knife σ '.

In contrast, female speakers never encode grammatical gender (51).

(51) ba-páche-ro n-i-kisé-s
3-look_for-TAM N-3-knife-DET
'She looks for her knife/She looks for his knife/He looks for her
knife/He looks for his knife f '.
'She looks for her knife σ '.

Male speech has no marker for feminine gender, so male speakers use the same unmarked forms as female speakers (51), but these refer only to a female subject or possessor.

Island Carib and notably Garifuna also show a complex system of gender indexicality in the expression of grammatical gender. The attribution of grammatical gender differs depending on the gender of the speaker. The languages show a masculine/feminine distinction. Yet in Garifuna, males use feminine agreement (52) and females use masculine agreement (53) with abstract nouns, as well as in some specific syntactic constructions (de Pury 2003 and Munro 2013).

(52) Gúndan-tina t-au idemual t.ó. Garifuna (de Pury
happy-1SG 3F-with help 3F.DEICT 2003:159)
'I am happy with this help σ '.

⁴² In (47), the prefix *i-* turns into a glide before a V and then undergoes a regular process of nasalization.

⁴³ In Bésiro, the third-person *i-* prefix is ambiguous as to whether or not the possessor is coreferential with the subject. A clitic can be added to specifically mark coreferentiality (Pierric Sans, personal communication).

- (53) Gúndan–tina I–au idemual I.é.
 happy–1SG 3M–with help 3M.DEICT
 ‘I am happy with this help ♀’.

Thus, the gender of the speaker is indexed by the use of a specific grammatical gender for some naturally non-gendered items. This extremely complex situation is clearly exceptional in the survey.

Although almost all languages indexing gender at the morphological level show some distinction within the reference system, it was noted earlier (see table 8) that four languages (Iatê, Island Carib, Kokama, and Omagua) index gender in other parts of the morphology. Kokama and Omagua index the gender of the speaker not only in pronouns but also in number particles (54), demonstratives (55), and connectives (56). In these languages, these three categories are somewhat related to reference or deixis. For instance, connectives in Kokama (see examples in table 6) involve phonological pieces that resemble pronominal forms for third person in both female and male speech (Vallejos 2010:649). These three categories could be considered an extension of the pronominal system, even though connectives were classified under discourse markers in 5.2. Likewise, it was noted above that the pronominal paradigm of Mojeño (with indexicality of the gender of the speaker in the masculine) was active not only in pronouns proper but also in categories like articles.

- (54) =kana/=nu Kokama (Vallejos 2010:42)
 =PL♂/= PL♀
- (55) yama ~ yamua/rama ~ ramua
 INDEF.DEM♂/INDEF.DEM♀
- (56) yaepe/raepe
 there, then ♂/there, then ♀

Iatê also shows some gender distinction within the morphology besides the pronouns. It has gender-indexing indicative and imperative markers. These are functionally very close to what was observed in the section on discourse markers but realized here in affixal morphology rather than in phonologically independent elements.

- (57) ta samake–hlē–ne Iatê (Costa and Silva 2005:25)
 3SG marry–PF–IND♀
 ‘(s)he got married ♀’

Finally, Hoff (1994) mentions some Island Carib morphemes that are used only in male speech and only on lexemes of Carib origin. Most were very likely borrowed from Carib. Taylor (1954:29) also lists five morphemes that are mentioned in Breton (1665/1999) as belonging only to men’s speech: a negator, a causative, and three pronominal prefixes. For Island Carib, Taylor

TABLE 12
NUMBER OF LANGUAGES FOR EACH LOCUS OF GENDER INDEXICALITY

	Discourse			
	Lexicon	Markers	Phonology	Morphology
Number of languages with this locus	8	29	4	11
Number of languages with this locus ONLY	1	20	2	3

shows that men used the negator *-pa* of Carib origin, while women used the Arawak negative prefix *m-* (58).

- (58) arámêtoupátina/marámêtontina Island Carib (Taylor 1954:29)
'I am not hiding (something) ♂/I am not hiding (something) ♀'

It seems these were remains of Carib morphology in the mixed language. What is clear for Island Carib is that morphology distinctions in male and female speech were quite marginal given the amount of distinct lexicon.

To summarize, gender-indexing morphology was found in 11 languages, in the pronominal or reference system of 10 of them, and in other morphology for 4 languages. Indexical gender and grammatical gender interact in complex ways in some of the languages of the survey.

5.5. The loci and the degree of gender indexicality. The previous four sections discussed the various loci where gender-of-speaker indexicality occurs in the languages of my sample. Table 12 shows the number of languages with gender indexing for each locus. What stands out from these results is the importance of the discourse markers as a locus of gender indexing. Also, languages with gender-indexing lexicon are not as prevalent as suggested in the literature.

Another perspective on the issue is to consider the degree of gender-of-speaker indexicality that one finds in any given language. The degree of indexicality can be evaluated on the basis of a combination of three parameters: number of loci, number of items in each locus, and the frequency of the items.

As far as the number of loci is concerned, 26 of the 37 languages in the sample index the gender of the speaker in one locus only, most often in discourse markers. Six languages out of 37 index gender in two loci and five languages in three loci. Appendix A lists the loci for each language.

Generally, the number of items indexing gender per locus is low (under a dozen). The number of gender-indexing items is minor in both the grammar and the lexicon. The one exception to these generalizations is Island Carib, where a great part of the lexicon indexes the gender of the speaker. Even though it is the best-known case of the sample, it is clearly not representative of the sample in this respect.

The frequency of gender-indexing items is difficult to discuss without text-based research. One observation is that the frequency of the gender-indexing items seems to vary depending on the locus. The literature does not comment on the frequency of the gender-indexing lexical items, and the examples provided do not suggest them to be either particularly rare or frequent. I assume that the degree of indexicality is therefore somewhat medium in languages indexing gender only in this locus. Gender-indexing discourse markers vary in terms of frequency—for example, an assertive marker is likely to be much more frequent than an interjection expressing pain. No counts of either lexical or discourse-marking elements are available.

In contrast, we can surmise that gender indexicality in the phonology results in a robust genderlect distinction. For example, Karajá discourse is said to index gender phonologically every three words on average (Fortune and Fortune 1975). Gender indexicality in the morphology is also highly visible in the languages of the survey because it is found almost exclusively in pronouns or other referential items, and pronominal cross-reference on the predicate is frequent in Amazonian languages (Dixon and Aikhenvald 1999). For example, counts on a Mojeño Trinitario text (Rose 2013*b*) show that gender-indexing items are very common (in a majority of sentences, on average), though they are irregularly distributed, with an average of 2.5 per sentence when present.⁴⁴ This is illustrated in the following extract, with three elements (a pronoun, an article, and a prefix) expressing masculine singular and, at the same time, indexing the gender of the male speaker.

- (59) **ema**–rich’o **ma** papa Piyo **mu**–ejare⁴⁵ Mojeño (Rose,
 PRO3M σ –still ART.M σ pope Pio 3M σ –name fieldnotes)
 ‘He was still the pope, Pius was his name σ ’.

In sum, phonological and morphological loci are particularly salient distinctions in that they tend to pervasive gender indexicality.

The languages in the survey are quite diverse in terms of the degree of indexicality. Most languages of the survey have a low degree of indexicality—this probably explains why gender indexicality in particular languages is sometimes presented as anecdotal or is described only sketchily. Among the languages with a high degree of gender indexicality, there are many more languages with a few frequent gender-indexing items (such as Karajá in the phonology or Mojeño and Bésiro in the morphology) than languages with a high number of gender-indexing items (such as Island Carib and its lexicon).

⁴⁴ Additional counts can be found in Rose (2013*b*).

⁴⁵ *ma-* with initial /i/ or /e/ is realized as *mue* [mwe].

6. Conclusion. This paper has surveyed the phenomenon of gender indexicality in South America, limiting the discussion to cases of the categorical indexation of the gender of one or both speech-act participants in clauses that do not necessarily refer to them as participants in the state of affairs expressed. A questionnaire was used in conducting the survey (see Appendix B), and it may prove useful for further research on individual languages. Based on the survey of 41 languages (see list in Appendix A), this paper offers a typology of gender indexicality. To my knowledge, this is the largest published survey of gender indexicality systems to date. Some possible reasons for categorical gender indexicality to be underdescribed are suggested below.

First of all, gender indexicality can be very unobtrusive in a language. It affects only two words in Xavante and often only interjections in Tupi-Guarani languages. Interjections are often treated only briefly or not at all in grammars (Schachter and Shopen 1985/2007:57). The minor scope of gender indexicality within grammars, especially in contrast with the exceptional pervasiveness of gender indexicality in the lexicon of Island Carib (the best-known case of gender indexicality in the region), may have led scholars to underestimate the interest of their data.

Second, a careful methodology is required for researching gender indexicality. Data obviously have to be collected with speakers and addressees of both genders. The lexicon should ideally be systematically checked for its use by both genders of speakers. Data should also consist of spontaneous discourse in order to include interjections and discourse particles and to illustrate the discourse use of gender-indexing items.

A third difficulty could be that speakers may refuse or not be able to discuss gender indexicality. This possibility seems not to hold strongly. Only one of the investigators consulted has noted that there could be a kind of taboo with the issue.⁴⁶ All detailed descriptions mention that not only can speakers of both genders evaluate a word as belonging to one lect or another, but they can also produce both lects with ease and correct children. My own experience with Mojeño speakers indicates a total consciousness of the gender indexicality system and knowledge of both variants by all speakers (Rose 2013*b*). The survey shows that the norm is indeed that all speakers master the two variants. This is obvious from the discourse use of speaker gender indexicality: a speaker uses the variant of the other gender when quoting the speech of a speaker of the other gender.⁴⁷ In the following textual example, the female Mojeño speaker Florencia Carire Tamo uses the female speech

⁴⁶ “Yaathe speakers don’t like to talk about it” (Januacele da Costa, personal communication).

⁴⁷ The only description that contradicts this is found in Souza (2012), but the methodology is biased. It seems men were asked whether they could speak like women, and their testimony has not been verified in texts.

singular masculine *ñi* when talking about a man with a dog-face. She uses the masculine speech singular masculine *ma* when quoting this man's speech about another man (for Kokama examples, see Vallejos 2010:43).

- (60) **ñi**-cho'o-uko-pu-iji eno **ñi**-janemuri-ono Mojeño (Rose
 3M♀-call-PL-PF-RPT 3PL 3M♀-fellow-PL 2013b:122–23)
- “j-**ma**-kñ-ojoo'i kristianu”
 DEM-3M♂-INVIS-COP human_being

‘He called to his fellows ♀: “There’s a human being around ♂”’.

Given these difficulties, the survey of 41 languages reported on here serves as a preliminary treatment. I hope this paper will inspire research on gender indexicality in other languages. The remainder of this conclusion first summarizes the results of the paper at all levels (geographically, genetically, pragmatically, typologically, degree of indexicality, and use) and then underlines the two major findings of the paper.

The discussion of the geographic and genetic distribution of the languages of the survey is still preliminary, due to insufficient evidence. Geographically, gender indexicality is found in many parts of South America (see figure 1), with most occurrences in Amazonia and the Chaco region. At present, there is no robust evidence of gender indexicality having spread by contact. Genetically, the phenomenon is found in 13 linguistic stocks, with very little evidence that it is the result of inheritance. Some regularities were observed, such as the recurring pattern of gender-indexing discourse markers in Tupi-Guarani and Carib languages, and gender indexicality or grammatical gender in all persons in several Macro-Jê languages (Iatê, Ofayê, and Rikbaktsa). Whether these shared patterns should be seen as a common inheritance remains to be investigated.

Pragmatically, all three types of gender indexicality (of the speaker, of the addressee, and relational) have been observed, with a notable predominance of indexicality of the gender of the speaker (37/41).

The systems were further classified according to the loci of indexicality, with four major types (lexicon, discourse markers, phonology, and morphology). Discourse markers (including interjections) have been set apart from the lexicon and the morphology, because they are a particularly common locus, often the only locus for individual languages. Lexical distinctions are far less common than expected on the basis of the existing literature and are not found in kinship terms, contrary to common expectations. Some regularities were observed within the loci, such as the predominance of pronominal forms within morphology and expressive interjections and discourse particles with illocutionary force within discourse markers. Only two languages were considered to show referential gender indexicality (in the first or second person

only); all others index gender in elements that do not specifically refer to the speech-act participants.

A great diversity was observed in the degree of indexicality, from languages like Hup, with just one gender-indexing interjection, to rare languages like Island Carib, where a large part of the lexicon indexes the gender of the speaker. On the whole, gender indexicality remains a generally marginal phenomenon, far from diglossia (except for Island Carib), contrary to what the expression “male vs. female speech” suggests.

While descriptions of the phenomenon vary in depth, from a brief mention in a grammar to specific papers on the topic (on nine languages only; sources shown in boldface in Appendix A), almost all descriptions note a similar use of the gender indexicality system: all speakers know the two variants, are conscious of the system, and use the variant of the opposite gender when citing a speaker of the opposite gender.

Finally, on the social level, the present survey uncovered minor uses of a genderlect by someone of the opposite biological sex. For instance, in Bolivian Guarani, children are socially ungendered.⁴⁸ Boys change their speech at the initiation ritual when they are fitted with the labret (Giannecchini 1898/1996:306). Prestigious elder Karajá men who withdraw from most public activities and stay within the women’s sphere can use female speech without being criticized (Ribeiro 2012:154–55).

The first major finding of the survey is that categorical gender indexicality is much more common than previously thought, at least in South America (compare the 41 languages of my survey with the 6 languages in Fleming’s 2012 study). Besides the famous reports of how gender is statistically indexed in discourse, many languages also obligatorily index gender in various loci of their grammar. This survey thus provides a large and rather robust data set disproving the position that gender indexicality is always statistical, i.e., that there is only a tendency of association of one form to a gender. It supports the idea that social distinctions are encoded not only in discourse, an area which has already received a lot of attention, but also in grammar (for another example, see Evans 2003). It also suggests that this phenomenon may be more common in South America than in the rest of the Americas, where it has previously been more frequently discussed. I hope this paper will be an incentive for the discovery of new systems of gender indexicality and a better description of the systems already uncovered.

The second major result of the survey is the line drawn between occasional gender indexicality, for example, as found in the lexicon or discourse markers, and regular gender indexicality, for example, occurring in the phonology or the morphology. Although gender indexicality in the phonology or

⁴⁸ Children use female speech until they reach adulthood.

the morphology is rare cross-linguistically, it is found in almost half of the languages in my sample (18/41). Furthermore, it is well attested within the languages that exhibit it because of the high frequency of its use. So not only is gender indexicality not as rare as previously thought, it is also much more pervasive than previously thought.

APPENDIX A

LANGUAGES AND DATA SOURCES

Type of gender indexicality is symbolized as 1–gender of speaker, 2–gender of addressee, and 3–relational gender. Locus of marking is abbreviated as DISC–discourse markers, LEX–lexicon, M–pronominal morphology, M(+)-pronominal morphology and other type of morphology, and PH–phonology. References in boldface are studies that specifically deal with gender indexicality. (p.c. = personal communication.)

Language	Language Family	Type	Locus	Sources of Data
Abipone	Guaycuru	1	DISC	Dobrizhoffer (1822:2:197), Najlis (1966:73) ⁴⁹
Araona	Tacana	1	PH	Aikhenvald and Dixon (1999:366)
Avarico	Carib	1	DISC	Gilij (1780–84:161)
Awetí	Tupi	1	M, LEX	Drude (2002)
Bésiro	Macro-Jê	1	M	Adam and Henry (1880), Falkinger (2002) , Sans (2013, fieldnotes)
Bolivian Guarani	Tupi	1	DISC	Giannechini (1898/1996), Dietrich (1986:168), Ortiz and Caurey (2012)
Chipaya	Uru-Chipaya	3	DISC	Olson (1967:300–304), Cerrón-Palomino (2006:150–51, 165)
Cholón	Hibito-Cholonan	2	M, DISC	Alexander-Bakkerus (2004)
Garifuna	Arawak	1	M, LEX, DISC	de Pury (2003; 2004), Munro (2013)
Guarayo	Tupi	1	PH, LEX, DISC	Höller (1932), Crowhurst (2000)
Hup	Nadahup	1	DISC	Epps (2008)
Iatê	Macro-Jê	1	M(+), LEX, DISC	Costa and Silva (2005)
Island Carib	Arawak	1 (2?)	M (+), LEX	Taylor (1954; 1956), Taylor and Hoff (1980), de Pury (2003; 2004), Hoff (1994)

⁴⁹ Abipone data were kindly sent to me by Willem de Reuse.

Kadiwéu/Mbaya	Guaycuru	1	PH, M, LEX	Sandalo (2011), Souza (2012) , Sánchez Labrador (1760/1971 <i>a</i> ; 1760/1971 <i>b</i>)
Kali'na	Carib	1	DISC	Gilij (1780–84:161), de Goeje (1910/1946:43–44), Odile Renault-Lescure (p.c.)
Kamaiurá	Tupi	1	DISC	Seki (2000:100–101)
Karajá	Macro-Jê	1	PH, DISC	Fortune and Fortune (1975), Ribeiro (2001; 2012:chap. 3)
Kayabí	Tupi	1	M	Dobson (1997:13–14)
Kipeá	Macro-Jê	1	DISC	Mamiani (1699:116–17)
Kokama	Tupi	1	M(+), DISC	Vallejos (2010), Pottier (1972), Faust (1959)
Kubeo	Tucano	1 (+3)	DISC	Chacon (2012)
Lule	Lule-Vilela	1	DISC	Machoni de Cerdeña(1732:87–88), Zamponi and de Reuse (forthcoming)
Maipure	Arawak	1	DISC	Gilij (1780–84:161), Zamponi (2003:11)
Mebengokre	Macro-Jê	1	DISC	Salanova (2001), Bernat Bardagil (p.c.)
Mocoví	Guaycuru	1	DISC	Paucke (2010:286), Bucca (1981:233) ⁵⁰
Mojeño	Arawak	1	M, DISC	Marbán (1702), Olza Zubiri, Nuni de Chapi, and Tube (2002), Rose (2013<i>b</i>)
Old Guarani	Tupi	1	DISC	Ruiz de Montoya (1640)
Omagua	Tupi	1	M(+), DISC	Zachary O'Hagan (2011:55; p.c.)
Pumé	isolate	2	M	García (2000:567)
Pará Gavião	Macro-Jê	1	DISC	Costa and Oliveira (2011)
Sateré-Mawé	Tupi	1	DISC	da Silva (2010:206)
Siriono	Tupi	1	LEX	Schermair (1949; 1957)
Southern Nambikwara	Nambikwara	2	M(+)	Kroeker (2001:65–66)
Tamanaku	Carib	1	DISC	Gilij (1780–84:161)
Tapirapé	Tupi	1 (+3)	DISC	Walkiria Praça (p.c.)
Tembé	Tupi	1 (+3)	DISC	Bendor-Samuel (1972)
Toba	Guaycuru	1	DISC	Susnik (1971)
Tsafiki	Barbacoan	1	M	Dickinson (2002:65)
Tupinambá	Tupi	1 (+3)	DISC	Barbosa (1956)
Xavante	Macro-Jê	1	LEX, DISC	Machado (2011)
Xerente	Macro-Jê	1	LEX, DISC	Sousa Filho (2007:97–98)

⁵⁰ Mocoví data was kindly sent to me by Pedro Viegas Barros.

APPENDIX B

QUESTIONNAIRE ON GENDER INDEXICALITY

This questionnaire is for linguists seeking to detect and describe gender indexicality. It was designed for a survey of gender indexicality in South American languages. Please address questions, suggestions, or results to the author of the questionnaire.

“Gender indexicality” refers to a formal distinction depending on the gender of the speech-act participants and is distinct from grammatical gender, which indicates the gender of a referent. Gender indexicality can be found in sentences where neither the speaker nor the addressee is involved as a participant in the event.

1. Name of language
2. Linguistic family
3. Geographic location
4. Sources (published or fieldnotes)
5. Researcher contact information

Type of indexicality

6. Does language X index the gender of the speaker (a.k.a. male/female speech), the addressee, or both? If both, please describe the number of categories and their context of use.
7. Is the distinction categorical (forms exclusively used by a gender) or statistical (forms statistically more frequently associated with a gender)?

Locus of marking

8. Is gender indexed in the lexicon? If so, in how many items? In which semantic sub-part of the lexicon (i.e., in animal names)?

Note: Please make sure that the lexical distinction is not based on gender of the referent for nouns (as in *son/daughter*), on gender of an argument of the verb (for verbs expressing, say, typical activities of women vs. men), on gender of the possessor for kinship terms (DO NOT use first-person possessor or vocative forms when eliciting kinship terms). In all of these cases, there is no gender indexicality.

9. Is gender indexed in interjections (expressive, phatic, descriptive—ideophones, conative)? Examples of expressive interjections include expression of pain, surprise, disdain, aversion, admiration, sadness, anger, shock, joy, fright, shame, and derision.
10. Is gender indexed in discourse particles?
11. Is gender indexed in affirmative/negative words or particles?
12. Is gender indexed in routines and formulas?
13. Is gender indexed in connectives?
14. Is gender indexed in the phonology? If so, how (phonetic substitution, deletion, syllabic structure, prosodic rules)?

15. Is gender indexed in the morphology? If so, is it found in the pronominal system? Is it found elsewhere in the morphology as in the pronominal system?

Note: If found only in the first or second person, consider analyzing it as grammatical gender especially if grammatical gender is found in the third person.

Synchronic comparison

16. Are the two forms distinguishing indexical gender (lexemes, morphemes, phonemes, etc.) equivalent in terms of complexity?
17. Can one of the forms be considered to be derived from the other? By what type of operation (addition, deletion, etc.)?
18. Is the genderlect distinction based on the presence vs. absence of a feature/element/category?

Diachrony

19. Is the same gender indexicality pattern found in other related languages?
20. Are both forms inherited, i.e., reflexes of attested or reconstructed proto-forms?
21. Can one form (or the marked form) be considered an internal development of the other form?
22. Is the same distinction found in a genetically unrelated neighboring language?
23. Is one of the forms a result of borrowing?

Use

24. Are the lects given a special name?
25. Is gender indexicality obligatory or optional?
26. In case of indexicality of gender of the speaker, check in texts whether the opposite gender form is used in citing a speaker of the opposite gender.
27. How is social gender defined (classification of children, elders, and homosexuals)?
28. How pervasive is the phenomenon (minor, visible in all sentences, . . .)? Please specify whether this results from the number of elements concerned (types) and/or their frequency (tokens).
29. Approximate age of acquisition.
30. Attitudes toward (exclusive or statistical) distinctions related to gender of the speech-act participants.
31. Attitudes toward errors and correcting.

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