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Body-Part Morphemes in Matis (Panoan)

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Abstract

Grammatical and pragmatic aspects of body-part constructions represent relevant theme for typological and functional researches in the Amerindian languages. Despite the researches on body-part morphemes in the Matis language since the beginning of the 21st century, studies have been restricted to brief inventories and to the description of isolated clauses. In the present article, I describe the

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extended body-part inventory and the typological aspects of the Matis body-part morphemes. In doing so, it is proposed the systemic functional analysis of its lexicogrammatical features and pragmatic properties in contextual constructions of narratives collected in fieldwork. The findings of this analysis shows that, in clause chaining constructions, the functional relation of body-part morphemes and its possessor is established on referential progression by means of the participant agreement in the switch-reference system. Moreover, prefixed verbs can be preceded by the correspondent body-part nouns to convey focus expression, and polysyllabic nouns can also indicate topic function when structured at the beginning of the clause. The systemic functional analysis of the body-part morphemes through textual data seek to collaborate on the knowledge of the interaction between lexicogrammatical and pragmatic systems in the Matis language.

Keywords: body-part typology, reduplication, switch-reference, metaphor, information structure, systemic functional grammar, Matis narratives, Panoan family

1. Introduction

Matis language has 30 body-part prefixes, which are attached to adjectives of colour and mainly verbs of action, to indicate bodily references of absolutive arguments. Studies of the Matis body-part morphemes have been restricted to brief inventories and to the description of isolated clauses. In the present article, I describe the extended body-part inventory and the typological aspects of these morphemes in the Matis language. With this in view, it is proposed an innovative systemic functional analysis of its lexicogrammatical features and pragmatic properties in clause-chaining constructions of narratives collected in fieldwork.

Matis people live in the Javari Valley Indigenous Territory (in three

villages called Paraiso, Tawaya and Kuraya), and in the town of Atalaia do Norte (home to several indigenous families from the Javari Valley), west of the state of Amazonas, Brazil. The language is spoken in the villages and also in the city, where the people communicate in their native language, except in commercial and educational contexts in which Portuguese language is used. According to Social-Environmental Institute (ISA 2014), Matis population was about 457 individuals in 2014.

This language belongs to Panoan family, which has approximately 30 languages, and roughly 20 of these languages are still spoken today in the Amazon western regions of Brazil, Peru and Bolivia. Several scholars have refined the relations of the Panoan family and, according to Ribeiro (2006), from the mid-twentieth century, more systematic classifications and comparative studies expanded the knowledge about the historical development of the languages as well as the internal structure of the linguistic family. For example, preliminary internal classifications, based on linguistic criteria, were performed by Lanes (2005), Ribeiro (2006) and Fleck (2013).

The classification proposed by Lanes (2005) presents the Matis language along with the Matses language in the same branch, which is described by the author as the furthest group from other Panoan languages. The study presented by Ribeiro (2006) contains the classification of the Matis language in the group called IV-1, which is composed of the languages Matses, Kapishto and Kulina as well. The classification proposed by Fleck (2013) presents the Mayoruna branch that contains the languages Matis, Matses, Kulina, Demushbo, Korubo, Mayoruna of the Jandiatuba River, Mayoruna of the Amazon River and Mayoruna of Tabatinga.

The next session describes the materials and method procedures of the study, then the systemic description of the body-part morphemes.

Firstly, I describe the inventory of 30 body-part prefixes along with the morphological forms and meanings; the interaction of prefixation and verbal reduplication; and the analysis of the syntactic tracking of the prefixes in switch-reference system.¹ After that, it is presented the semantic extension from basic prefix meanings, and the pragmatic information related to the body-part morphemes. Finally, the study is complemented by the conclusion and the bibliographical references.

1.1. Materials and Method

Linguistic and anthropological knowledge about the Matis language and people, contacted in the mid-1970s, developed from the beginning of the 21st century, with the accomplishment of descriptive researches and some comparative accounts. For instance, anthropological and ethnographic aspects of Matis people were studied chiefly by Arisi (2007, 2011, 2012, 2017). Furthermore, grammatical aspects of the language were described by the linguists Ferreira R. (2001, 2005, 2012, 2017) and Ferreira V. (2000, 2005), and some comparative studies were done by Barbosa (2012, 2014, 2018).²

In the present paper, the analysis of the body-part morphemes in the Matis language is presented on the basis of primary data, with examples primarily coming from narratives collected and transcribed with native speakers, and also a few of them from the study of Ferreira R. (2005). With this in view, I describe the systemic functional aspects of the Matis body-part morphemes and propose the analysis of its

¹ The opposing exclusive pair of encoding pattern glossed as ID ‘identity’ and NONID ‘non-identity’ is used throughout this paper, since this terminology capture the multi-layered connections of this phenomenon, in contrast to the traditional terms ‘same subject’ and ‘different subject’ (van Gijn 2016).

² Matis grammatical systems are currently been described, such as morphosyntactic alignment (Barbosa 2020), switch-reference (Barbosa n.d.a), and also a study on the consonantal system (Barbosa et al. n.d.b.).

lexicogrammatical system in order to find out semantic and pragmatic functions in clause-chaining constructions of narratives collected in fieldwork.

Body-part morphemes have been described in various languages of the Panoan family, both in the form of nouns and monosyllabic prefixes, with about 20 to 30 prefixes in each language. Studies already published thus far describe the inventory of these morphemes and its grammatical properties, as well as some discussion on the description as nominal incorporation or prefixation (Fleck 2006, Ribeiro & Cândido 2008, Zariquiey & Fleck 2012, Rodriguez 2017).

Regarding the synchronic status of the Matis body-part morphemes, I analyze the prefixes of this language as independent items, that is, these monosyllabic morphemes are not synchronic variations of the polysyllabic nominal items (as presented in Loos (1999) for other Panoan languages). In this sense, the lexis of the Matis language has two sets of morphemes that refer to body parts; monosyllabic morphemes, which in the form of prefixes are attached to lexical bases, and polysyllabic nouns, which are used with discursive purposes.

The morphological structure of the Matis language is characterized as synthetic-agglutinative, and therefore in the present analysis I consider the morpheme as the minimum unit. Thus, unlike the morpheme-and-process approach, I take the methodological procedure known as morpheme-and-arrangement, considering the descriptive principles presented by Aikhenvald (2007). Regarding the analysis of the systemic and communicative functions of the body-part morphemes, I follow the theoretical notions proposed by Lakoff & Johnson (1980), Krifka (2007), Halliday & Matthiessen (2014), and Matić et al. (2014).

2. Grammatical Description of Body Parts in Matis

The brief typological profile of the Matis grammar is as follows: the order of constituents in main clauses is flexible, with a tendency to S(subject)O(bject)V(erb)/SV configuration, and verbs in subordinate clauses must come last. Word order in possessive constructions is quite rigid, which means possessors, marked in the genitive case, are always followed by possessees. The morphology is essentially structured as agglutinative and synthetic, in which verbal roots receive postpositions, and also prefixes referring to body parts.

The grammatical relations of the Matis language are basically characterized by ergative-absolutive alignment. As with syntactic level, the morphology of nominal items and singular pronouns follows the ergative-absolutive pattern, with the exception of the first-person plural which follows the direct pattern, and the second-person plural, the nominative-acusative pattern. Adverbial items receive suffixes for participant agreement to the subject argument of the clause. Finally, the switch-reference system indicates the alternation and coreference of arguments, as well as logical-temporal relations and participant agreement between clauses.

The following subsections describe the body-part morphemes in the Matis language, according to the theoretical principles of the systemic functional grammar presented by Halliday & Matthiessen (2014). With this in view, it is presented the analysis about the interaction of the body-part system with other lexicogrammatical systems, like reduplication and switch-reference. In doing so, the description of the narrative data is presented as language functioning in context, and the textual resources, as an instantiation of the body-part system.

2.1. Morphological Form of Body-Part Morphemes

Body-part meanings in the Matis language are conveyed by monosyllabic prefixes, which are attached to colour adjectives and, especially, action verbs. In addition to these bound morphemes, the vocabulary of this language also has nominal morphemes, that besides conveying the same meaning of the prefixes, express specific parts of the body. The Table 1 presents the forms and meanings of the body-part prefixes and nouns (formed by two or more syllables—usually beginning with the same prefix form).

Table 1. Bound and Free Morphemes Relating to Body Parts in the Matis Language

Prefixes	Nouns	Meanings
an-	ana	tongue
	ana rişan/rişbu	tongue tip
βi-	βımanan	face, forehead
	βımarı, βışakete	eyelash
	βıru	eye
	βıru kaşuku	eyelid
	βıru kuişamawi	eyebrow
in-	ina	penis, tail
ik-	ikβik	lip
	ikşak	mouth
ka-	kaşpan	upper back
	kaşuku	back
	kaşuku wişpo	lumbar (lower back)

kui-	kuişak	jaw
	kuişakete	beard
	kuitonko	chin
kui-	kui	vagina
	kui iķşak	vaginal lips
	kui tsitami	perineum
ma-	mapais	horn
	mapi	brain
	maşatkete	hair
	maşo	head
	maşo kaşuku/tsitsu	back of head
mi-	mikin	hand
	mikin ana	palm
	mikin kaşuku	dorsum of hand
	mikin maşopa	thumb
	mikin rişan/rişbu	fingertip
	mikin titun	wrist
	mikin titun kaşuku	dorsum of wrist
	mintşinβuruş	elbow
	mintsis	fingernail, claw
	mipuku	anterior forearm region
	mipuku kaşuku	posterior forearm region
mirantakua	anterior cubital region	
mik-	mikaş	rib
nak-	naktete	waist

nik-	niktşun	navel
pa-	paβişan	ear
pi-	p̄ii	wing, feather
	p̄işoro	shoulder
	p̄işuku	armpit
	p̄itişka	upper arm, paw
po-	poβik	belly skin
	popes̄	lateral part of the abdomen
pu-	pui kini	anus
	puku	belly
	puku tşirik	large intestine
	puku tşunu	small intestine
	purunte	thigh
	pusa	stomach
ş̄a-	ş̄aβet	hip
	ş̄aεş̄	groin
ş̄ik-	ş̄iktun, ş̄iktoro	thorax
ş̄i-	ş̄ita	tooth
ş̄u-	ş̄ui	penis
	ş̄ui βikik	clitoris
	ş̄ui maβit	foreskin
	ş̄ui maşo	glans
	ş̄ui rişan	urethra
	ş̄uma	breast, nipple, milk
ra-	rara	body

ran-	ranβiru	knee
	rantakua	behind the knee
ri-	rimurun	nasal cavity
	rişan	nose, beak, snout
	rişan kaşuku	nasal bridge
	rişan kini	nostril
ta-	taï	foot
	taï ana	sole
	taï kaşuku	dorsum of foot
	taï maşopa	big toe
	taï rişan/rişβu	toe
	taï titun	ankle
	taï tsituku	heel
	tantis	toenail
tak-	takua	liver
tan-	tanpeş	cheek
ti-	tiβik	neck skin
	tios	uvula
	tişpan	neck base
	titun	neck
	titun kaşuku	nape
	tiwişpo, titun wişpo	cervical spine
tsi-	tsiβin	leg
	tsipuis	rectum
	tsitsu	ass

u-	ubu	scrotum
	ubu iŕi	testicles
wi-	wipuku	lower part of the leg
	wipuku titun	ankle
	wipuku wiŕpo	shin
	wipuku wiŕuku	calf

In addition to the syllable structure ‘C(onsonant)V(owel)’ of most body-part prefixes in the Matis language, some of these bound morphemes also have the following syllable patterns: (V-), {u-} ‘testicles’; (VC-), {an-} ‘tongue’, {ik-} ‘lips/mouth’; and (CVC-), {tan-} ‘cheek’, {nik-} ‘belly button’. Having just one prefix slot in lexical bases, the basic function of prefixation in the Matis language is to indicate the participant’s body-part that receives the action or process conveyed by the verb. For example, the following clause has the transitive verb *remiŕikak*, which contains the prefix {ri-} ‘nose’, and whose body-part possessor corresponds to the absolutive argument, *βakui* ‘child’.³

³ The following category label abbreviations, mostly based on the Leipzig Glossing Rules, are used throughout this paper: 1, first person; 2, second person; 4, fourth person; A, agente-like argument of canonical transitive verb; ABS, absolutive; AG, agent; AGR, agreement; ANT, anterior; DECL, declarative; DES, desiderative; EMP, emphatic; ERG, ergative; FOC, focus; ID, identity; INC, inconclusive; INTR, intransitive; INV, involuntary; INTS, intensity; LOC, locative; NID, non-identity; NMLZ, nominalizer; O, patient-like argument of canonical transitive verb; PST, past; REC, recent; S, single-argument of canonical intransitive verb; SG, singular; SIM, simultaneous; TOT, totality; TR, transitive; >, switch-reference (marked clause > reference clause).

- (4) niktöpe=kin aβi **pimos~pi-mos**
 get.up=ID.SIM.A/S>A 4SG.ABS TOT~paw-bite
 kepe=kin **nokos~nokos**
 say=ID.SIM.A/S>A INTS~roar
 ‘When (the jaguar_j) got up, (it_j) bit it at the whole paws,
 roaring hard [...].’

This example presents the verbal root *mos* ‘bite’ to which the prefix {*pi-*} ‘paw’ is attached, resulting in the base stem *pimos* ‘bite the paw’. Then the stem is reduplicated to the left of the base, *pimospimos* ‘bit it at the whole paws’, to express the totality meaning conveyed by the verb, which affects the possessor of the body part. In other words, this verbal item means that the bite (of the jaguar) affected both paws of the anteater, as the verbal root is reduplicated along with the prefix referring to that body part.

Moreover, in this example, the noun phrase *nokosnokos* ‘roar hard’ has the onomatopoeic form *nokos*, which is, in the Matis language, usually reduplicated to indicate intensity. In this language, in addition to the intensity meaning conveyed by nominal reduplications, verbal roots are also reduplicated in order to express intensity and/or totality, such as *kuankuane* ‘all quickly go away’ and *nanane* ‘all really die’. Therefore, depending on the context related to the meaning of the full stem reduplication of action verbs, intensity and/or totality functions can be applied to the body-part prefix attached to the verb root.

2.3. Syntactic Tracking of Body-Part Reference

The basic position of the body-part possessor in the Matis prefixation constructions is immediately to the left of the verb. In spite of this syntactic position, in the complex clauses from narratives, the possessor noun phrase, which is in absolutive function, might not be

necessarily placed immediately to the left of the verb. As presented in the following clause, the relation of the possessor argument *kamunrapa* ‘jaguar’ to the prefix { β i-} ‘face’ is established by means of the participant agreement of the Matis switch-reference system.

- (5) **kamun-rapa** t \textcirc o=**kin** i β i
 jaguar-EMP come=ID.SIM.A/S>A 1SG.ABS
 bet-nu kape=**\text{\textcirc}**o i \textcirc n β i
 catch-DES try=NID.SIM.A/S>O 1SG.ERG
 tonkate **\beta**i-sanarpa=ak tonkate
 shotgun face-aim=NID.ANT.O>A/S shotgun
 se-tanpe=ek pakit-tanpe=ek
 hit-?=ID.SIM.A/S>S jump-?=ID.SIM.A/S>S
 ‘The jaguar came trying to catch me, and I aimed (it) in the
 face with the shotgun, and (it) jumped hitting the shotgun.’
 (Ferreira, R. 2005; my analysis and translation)

The switch-reference marker {=kin}, attached to the verb stem *t \textcirc okin* ‘came’, conveys the coreferentiality function of the subject *kamunrapa* ‘jaguar’ to the following transitive clause subject. In this clause, the verb stem *kape\text{\textcirc}*o ‘trying’, which receives the switch-reference marker {=\text{\textcirc}o}, indicates that the referent of this subject is the same of the direct object of the next clause. That is to say, the referent *kamunrapa* ‘jaguar’ is retrieved as a null absolutive argument of the verb stem *\beta**isanarpak* ‘to aim at the face’, owing to the interaction of body-part morphemes with the switch-reference system. The following example presents the clause-chaining relation of the possessor *\text{\textcirc}**airapa* ‘anteater’ with its body part { \textcirc pi-} ‘paw’.

- (6) **şai-rapa** p̄itirin~p̄itirin
anteater-EMP INTS~limp
kepe-ek kuan=**ek** wiβin
like.that-INTR.AGR go=ID.SIM.A/S>S external.root
ta-weβut=**ek** wiβin
foot-lie.under=ID.SIM.A/S>S external.root
ta-sukat-a-k kuen=**ek**
foot-lie.down-REC.PST-DECL leave=ID.SIM.A/S>S
pitişka ami-rapa ikek-ek
paw big-EMP like.that-INTR.AGR
βirisk=**ek** **pi**-βikeakit-a-k
swell.up=ID.SIM.A/S>S paw-turn-REC.PST-DECL
kuaka-kit ina
hear-AG.NMLZ that
‘[...] The anteater was limping a lot and, going like that, lying under trunks, (it) laid under a trunk. (With the anteater) going with very large paws swelling up like that, that we heard that that one turned its paws.’

In this example, the switch-reference marker {=ek} which indicate the participant agreement function on a simultaneous verbal event, establish the relation of the participant *şairapa* ‘anteater’ as the possessor of the body part {pi-} ‘paw’. In this clause complex, every verb that receives the marker {=ek} retrieves the absolutive argument *şairapa* ‘anteater’ up to the body-part predicate *piβikeakitak* ‘turned the paw’. To sum up, analyses of narratives indicate that the relation of body part and its possessor, in clause-chaining construction, is established on referential progression by means of the participant agreement in switch-reference system.

Despite applicative-like function of body-part terms in Matses

(Fleck 2006), with the addition of an extra absolutive participant, it is not the case for the Matis language since it lacks clear grammatical evidence for body-part applicative voice. Moreover, as the Matis language is basically an ergative-absolutive language, the possessor noun-phrase is generally the absolutive argument. However, in clauses whose subject or direct object corresponds to second-person plural pronoun, which exclusively follows the nominative-accusative pattern, the possessor noun phrase is in accusative or nominative case.

3. Semantic and Discursive Context of Body Parts in Matis

The description of the examples from narratives is based on contextual analysis of the meaningful lexical choices made by the narrator. In this sense, following the principles of systemic functional grammar proposed by Halliday & Matthiessen (2014), the semantic and pragmatic level of analysis about the discursive usage of body-part morphemes demonstrates the coding of experience and interpersonal relationships into linguistic meaning.

3.1. Semantic Extension from Basic Body-Part Meanings

Verbal prefixes of the Matis language are also used to convey abstract locative meanings. In this type of construction, the spatial meanings are based on the semantic extension of the basic meanings expressed by the monosyllabic body-part prefixes. As an illustration of the body-part prefixes abstraction, Table 2 presents a set of these prefixes, the basic meanings and its semantic extensions.

Table 2. Semantic Extension of Body-Parts Prefixes in the Matis Language

Prefixes	Basic Meanings	Spatial Meanings
an-	tongue	internal part
ra-	body	external part
ri-	nose	front part
ka-	back	back part
ma-	head	upper part
ta-	foot	lower part
pa-	ear	lateral part

The extended meanings of these body-part prefixes, which convey metaphorical spatial notions, are related to inanimate possessors. This semantic process distinguishes the reference value of the spatial meanings in comparison to the basic meanings, that are related to animated possessors. That is, the literal meanings, referring to body parts of human and nonhuman animals, are semantically extended in order to express parts of objects and plants. The following clauses with the metaphorical meaning of the body-part prefixes {an-} ‘tongue’ and {ra-} ‘body’ are examples of this type of process.

- (7) maurona=n **iwi** **an-pe-a-k**
maurona=ERG tree tongue-eat-REC.PST-RECL
‘Termite (a wood-eating worm) ate the stem’s core.’
- (8) maurona=n **iwi** **ra-pe-a-k**
maurona=ERG tree body-eat-REC.PST-RECL
‘Termite (a wood-eating worm) ate the stem’s bark.’

3.2. Pragmatic Information of Body-Part Morphemes

In the Matis language, verb stems, to which body-part prefixes are attached, may be preceded by the noun of the corresponding body part, whose form of the first syllable is usually the same of the prefix. Such a construction that indicates the emphatic function of the body-part noun is illustrated in the following example, in which the verb stem *rimiraktşakan*, bearing the body-part prefix {rî-} ‘snout’, is preceded by the body-part noun *itemixan* ‘snout’.⁴

- (10) mitsi mibi roβo=n tintema
 where 2SG.ABS human=ERG hit
rişan rî-mirak-tşakan wiktanpe-kin
 snout snout-point-INC.INV quickly-TR.AGR
 ‘(The jaguar asked:) “Where does the human hit you?” (And the anteater) pointing quickly near the snout [...].’

In this example, the co-occurrence of body-part morphemes, with the polysyllabic body-part noun *rişan*, followed by the prefixed verb stem *rimiraktşakan* ‘pointing quickly near the snout’, indicates the prominence of the information related to the body part ‘snout’. According to the basic notions of information structure (Krifka 2007), the emphatic interpretation given to the polysyllabic body-part noun represents unexpected information in the narrative discourse, which express the focus function of this reference.

Polysyllabic body-part nouns may also precede prefixed verbs if the speaker intends to focus the body-part reference in relation to the

⁴ In this example from a narrative, the possessor of the body part ‘snout’ is the referent *şai* ‘anteater’ (indicated in the translation between parentheses), that was introduced earlier in the narrative.

meaning of the prefix. For example, the verbal construction *miwisuwaek* means ‘smearing the hand and/or the forearm’, since the meaning of the prefix {mi-} corresponds to both of the body parts (see Table 1). Thus, considering the specification of only one of these body-part references, either *mikin miwisuwaek* ‘smearing the hand’ or *mipuku miwisuwaek* ‘smearing the forearm’ verbal construction can be used respectively. In addition to focus, the following clause shows that body-part terms can also be used as topic.

- (11) **pitiška** kimo ni ni=n
 paw right here here=LOC
 roβo=n tintema-e-k
 human=ERG hit-NPST.DECL
 ‘[...] (The anteater said:) “Right here on the paw, human hits (me) here”.’

In the Matis language, “there are variations [in word order] that are conditioned by pragmatic reasons, [so] when the object moves to the beginning of the clause, there is a topicalization”.⁵ (Ferreira, R. 2005). Hence, in the previous example, the (anteater) reported speech has the polysyllabic noun *pitiška* ‘paw’ at the beginning of the clause, which characterizes it as a topic, considering that this body part corresponds to “[...] the common knowledge [that] will be enriched by a new proposition” (Matić et al. 2014).

The present functional description about body-part morphemes in the Matis language is part of a wider research project of narrative study about the functional interaction of reference mechanisms and transitivity systems. This project also aims to describe the semantic

⁵ On original: “Existem variações que estão condicionadas por razões pragmáticas, quando o objeto se move para o início da sentença, há uma topicalização”.

and pragmatic conditions for those systems, and future studies have to be done about the discourse topic based on cognitive-pragmatic approach (van Dijk 1977, Chang 2007). In doing so, the results of these researches will provide a deeper knowledge about the systematic relation of transitivity systems in the Matis language with text and context, that can be used for didactic education and cultural documentation purposes.

4. Conclusion

Body-part morphemes in the Matis language are structured in synthetic constructions as monosyllabic prefixes and, less frequently, in analytical constructions as polysyllabic nominal items. As polysyllabic morphemes, these items are adjacent to adjectives of quality. Moreover, prefixed verb stems can be preceded by similar body-part noun to perform focus function, and polysyllabic nouns can also express topic function if structured at the beginning of the clause.

The body-part prefixes are attached to action verbs to construct verbal predications, and also to colour adjectives to construct nonverbal predications. On verb stems, the basic meaning of body parts, that is related to animate possessors, is extended to more generalized spatial meanings related to inanimate possessors. Additionally, verbal reduplication processes involving body-part prefixes include the meaning of the prefix attached to the verb. In clause-chaining constructions, the relation of body part and its possessor is established on referential progression by means of the participant agreement in switch-reference system.

Since the prefixation of body-part items is likely a process of every Panoan languages, references to inanimate possessors, and the

meaning extensions of some of these prefixes, as well as its pragmatic usage as topic and focus, may be properties of all or most languages of the linguistic family. To conclude, both synchronic (communicative functions) and diachronic (historical developments) aspects of body-part morphemes in narratives and other textual sources indicate the descriptive and typological relevance of this theme in the Matis language, as well as in the Panoan family.

References

- Aikhenvald, A. 2007. Typological Distinctions in Word-Formation. In S. Timothy (ed.), *Grammatical Categories and the Lexicon* 1-65. Cambridge: CUP.
- Arisi, B. 2007. Matis e Korubo: Contato E Índios Isolados No Vale Do Javari, Amazônia. M.A. Thesis, Federal University of Santa Catarina.
- Arisi, B. 2011. A Dádiva, a Sovinice e a Beleza: Economia Da Cultura Matis, Vale do Javari, Amazônia. Ph.D. Dissertation, Federal University of Santa Catarina.
- Arisi, B. 2012. La No-Frontera Pano: Etnónimos Como Categorías Alternativas Y Múltiples Entre Matis y Korubo. *Tipiti: Journal of the Society for the Anthropology of Lowland South America* 10.1, 19-36.
- Arisi, B. & F. Milanez. 2017. Isolados e Ilhados: Indigenismo e Conflitos No Vale Do Javari, Amazônia. *Estudos Ibero-Americanos* 43.1, 49-66.
- Barbosa, R. 2012. Aspectos Tipológicos Na Formação De Palavras Em Um Grupo De Línguas Da Família Pano. M.A. Thesis, Univesity of Campinas.

- Barbosa, R. 2014. Construções Simples e Complexas nas Reduplicações Lexicais de um Grupo de Línguas Pano: Uma Breve Caracterização De Sua Iconicidade Derivacional. *Revista Estudos Linguísticos* 43.1, 272-285.
- Barbosa, R. 2018. *Gramaticalização do Sincretismo de Casos em Línguas da Família Pano*. Muenchen: Lincom.
- Barbosa, R. 2020. Alinhamento Morfossintático Em Matis (Pano). *LIAMES: Línguas Indígenas Americanas* 20, e020017.
- Barbosa, R. n.d.a. Aspects of Switch-Reference in Matis (Panoan). Unpublished manuscript.
- Barbosa, R. et al. n.d.b. Sistema Consonantal em Matis (Pano): Variação e Estatuto Fonológico das Plosivas Sonoras. Unpublished manuscript.
- Chang, V. 2007. A Cognitive-Pragmatic Approach to Discourse Topic: A Cross-Linguistic Analysis and Universal Account. *Journal of Universal Language* 8.1, 1-27.
- de La Grasserie, R. 1889. De La Famille Linguistique Pano. *Actas del VII Congreso Internacional de Americanistas* 438-450. Paris: Maisonneuve.
- Ferreira, R. 2001. Língua matis (Pano): Aspectos Descritivos Da Morfossintaxe. M.A. Thesis, University of Campinas.
- Ferreira, R. 2005. Língua Matis (Pano): Uma Descrição Gramatical. Ph.D. Dissertation, University of Campinas.
- Ferreira, R. 2012. Aspectos Tipológicos Do Switch-Reference Em Línguas Da Família Pano. In E. de Souza (ed.), *Funcionalismo Linguístico: Análise e Descrição* 197-224. São Paulo: Contexto.
- Ferreira, R. 2017. Concordância De Participante Em Matis (Pano). *Amérindia* 39, 381-406.
- Ferreira, V. 2000. Língua Matis (Pano): Uma Análise Fonológica. M.A. Thesis, University of Campinas.

- Ferreira, V. 2005. Estudo Lexical da Língua Matis: Subsídios para um Dicionário Bilíngue. Ph.D. Dissertation, University of Campinas.
- Fleck, D. 2013. *Panoan Language and Linguistics. Anthropological Papers of the American Museum of Natural History* 99. New York: American Museum of Natural History.
- Halliday, M. & C. Matthiessen. 2014. *Halliday's Introduction to Functional Grammar*. 4th edition. London: Arnold.
- Instituto Sócio Ambiental. 2014. Povos Indígenas No Brasil. Available at <<https://pib.socioambiental.org/pt/povo/matis>>.
- Krifka, M. 2007. Basic Notions of Information Structure. *Acta Linguistica Hungarica* 55.3-4, 243-276.
- Lakoff, G. & M. Johnson. 1980. *Metaphors We Live By*. London: The University of Chicago Press.
- Lanes, E. 2005. Aspectos da Mudança Lingüística em um Conjunto de Línguas Amazônicas: As línguas Pano. Ph.D. Dissertation, Federal University of Rio de Janeiro.
- Loos, E. 1999. Pano. In R. Dixon & A. Aikhenvald (eds.), *The Amazonian Languages* 227-250. Cambridge: CUP.
- Matić, D. et al. 2014. Information Structure and Reference Tracking in Complex Sentences: An Overview. In R. van Gijn et al. (eds.), *Information Structure and Reference Tracking in Complex Sentences* 1-42. Amsterdam: John Benjamins.
- Ribeiro, L. 2006. Uma Proposta De Classificação Interna Das Línguas Da Família Pano. *Revista Investigações. Lingüística e Teoria Literária* 19.2, 157-182.
- Ribeiro, L. & G. Cândido. 2008. A Formação De Palavras a Partir De Morfemas Monossilábicos Nominais e Bases Verbais Em línguas Indígenas Da Família Pano: Prefixação Ou Incorporação Nominal? *Veredas* 12.1, 129-145.
- Rodríguez, C. 2017. Prefixos De Partes Del Cuerpo En La Lengua

Iskonawa. *Liames* 17.1, 117-141.

Rubino, C. 2005. Reduplication: Form, Function and Distribution. In B. Hurch (ed.), *Studies on Reduplication*. Berlin: Mouton de Gruyter.

Tak, J. 2007. Three Cross-Linguistic Tendencies in Reduplication Revised. *Journal of Universal Language* 8.2, 105-122.

van Dijk, T. 1977. *Text and Context: Explorations in the Semantics and Pragmatics of Discourse* 261. London: Longman.

van Gijn, R. 2016. Switch Reference: An Overview. In R. van Gijn & J. Hammond (eds.), *Switch Reference 2.0* 1-53. Amsterdam: John Benjamins.

Zariquiey, R. & D. Fleck. 2012. Body-Part Prefixation in Kashibo-Kakataibo: Synchronic or Diachronic Derivation? *International Journal of American Linguistics* 78.3, 385-409.