Review of Salles (2023) on Pirahã Grammar¹

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My purpose here is to provide a review of a recent publication of linguist Raiane Salles (Salles (2023)) on Pirahã grammar. Because my own analysis of Pirahã grammar is discussed in several outlets, e.g. inter alia, Everett (1983, 1984, 1986, 1987, 2005), I will not repeat my own analysis here, except when necessary to clarify a criticism. Superficially Pirahã's grammar is relatively simple.²,³ It has been described by me as lacking recursion.⁴ I am going to assume hereafter, following, inter alia, Pullum (2020; 2024) and Derbyshire (1979) that the absence of recursion is unremarkable, although this particular claim has been met with numerous attempts at reanalysis, sprinkled with vitriol. Most of this energy has been misguided, as Pullum (2020) in particular makes clear: "The claim that natural languages could lack features like hypotaxis was not novel or unprecedented."

The organization of this review follows the order of presentation in Salles (2023). Following this review, I offer a discussion of a hypothetical case in which one might claim that Pirahã has quantification either in the surface syntax or at Logical Form. This is added because Everett (2005) argues that Pirahã lacks existential or universal quantification or any form of quantifier binding that operates between matrix and subordinate clauses (since I have claimed that Pirahã lacks subordinate clauses).

Salles's description of Pirahã either largely repeats claims already made by previous researchers (usually me) or fails to argue for her deviations from that scholarship. Morever, she fails to interact with any descriptive or theoretical work that challenges her conclusions and never once explains either her decision to omit reference to the large majority of the existent literature on Pirahã nor to argue for her own positions, especially when those positions have either been falsified or argued against at length.

Responsible descriptive linguistics requires paying attention to and interacting with previous analyses of the phenomena about which one is suggesting new insights or analyses. When a researcher enters a field of study where there is already a substantial body of work, that researcher incurs an ethical obligation to demonstrate to their readers an understanding of earlier research, especially when that work impinges upon the topics the new work is addressing. This is so even though the strongest reasons for publishing new research might be to correct earlier analyses or to supplement the earlier work with new data. But although Salles (2023)'s analyses in many places diverge dramatically from previous work, she fails to offer any arguments as to why her analyses should be accepted over those previous analyses, nor does she even mention that her work diverges

¹ Salles, Raiane. 2023. Pirahã. In: Patience Epps and Lev Michael (eds.) Amazonian Languages, Volume 2 Language Isolates II: Kanoé to Yurakaré: An International Handbook. Berlin, Boston: De Gruyter Mouton, 2023. pp957-995. Because this is an excerpt from a monograph in progress on the conceptual foundations of linguistics, I have not included references here, focusing exclusively commentary.

² Futrell, et. al. (2016, 18ff) give a regular grammar for the language as: S = NPtopic> NPtopic> NPvoc > NPsubj NPsubj > NPsubj> NPtmp> NPloc> NPiobj> (JJobj | NPobj NPobj) > NPiobj > V JJobj > NPvoc NPtopic (where '>' = 'precedes')

³ Also see both Everett (2009) and Sampson, et. al. (2009). Generally statements about relative complexity of languages have little to contribute to the semiotics of language nor to the theory of syntax. I discuss this matter in Everett (2017, 374ff).

⁴ For a partial list of papers by me on Pirahã recursion, see some of my papers on this topic at: https://daneverettbooks.com/collection-of-most-of-dans-papers-on-recursion.

from any previous work. Salles's work throughout cherry-picks references to earlier descriptive and theoretical work.

Moreover, Salles's (2023) claims, like all linguistic descriptive work, must be evaluated in part by assessing not only the findings but also the methodology employed by the researcher, the amount time the researcher spent living in daily contact with native speakers, how that daily contact was used (how many hours a day of elicitation, analysis, etc.), the researcher's fluency in the language, and - perhaps most importantly - their understanding of the semantics of the language under study (Sakel and Everett 2011). Unfortunately, Salles does not address such questions in her description. Nevertheless, there is information available both in her own account as well as in descriptions by others that raise serious doubts about both the nature and the findings of her research.

For example, Salles could at most be claimed to speak Pirahã at a rudimentary level (see below). In a monolingual setting, this is an extremely serious impediment to research involving meaning and non-ostensive behavior, see (Everett and Gibson (2020)).

Beginning with Salles's description of Pirahã segmental phonology, her work is frequently nearly identical to Everett (1986 and 1979), though without acknowledgment of this. She omits most discussion of prosody beyond minimal phonotactics (thus offering no detailed analysis of syllable structure, stress, tonal perturbations, etc), although omissions of finer details in a short description are not all that serious, many aspects of Salles's phonological analysis raise quality concerns.⁵

To begin with a simple example, based on early work by Arlo Heinrichs, she claims: "Glottal stop insertion before word-initial vowels also occurs predictably (Heinrichs 1964). Rule and examples are given in (4) and (5):

- (4) Rule: $/0/ \to ?/ \#_V$
- (5) a. /ibogi/ [ʔɪ.bo. ˈgɪ] 'milk'
 - b. /aáháihi/ [?aáhájhI] 'sugar'"

But this is bad analysis. This is so because it treats one consonant, the glottal stop, as though it were fundamentally different phonologically than other consonants. But for Pirahã, it simply will not do to claim that glottal stops are predictable word-initially. In fact, that would be equivalent to saying that /k/ or *any other* Pirahã consonant is predictable word-initially, since *all* Pirahã words begin with a consonant. For example, if all Pirahã consonants except /k/ were to be represented word-initially (including glottal stops), a similar rule could be written:

$$0 -> k /# V$$

[ohoáipihaí] 'eat' --> /kohoáipihaí/, etc.

Such rules are misleading because they invoke a rule that is entirely unnecessary.

For her account to be convincing, Salles would have to *argue* why glottals are phonologically - but not phonetically - omitted word-initially although no other consonants are. She would also have to explain why this rule is necessary. The ?-insertion rule produces an unacceptable segmental phonological complication of the segmental analysis.

Second, when Salles (959) compares Mura and Pirahã she largely repeats Everett (1979),: "The most widely accepted contemporary classification, though, is that Mura is an isolate language and Pirahã is the last surviving of its numerous dialects (e.g., Nimuendaj. 1948; Aikhenvald 2012). See Table 21.1 for a comparison between Mura words documented by Hanke (1950) and Pirahã words, which convincingly shows that Pirahã should be classified as Muran."

⁵ As mentioned, her bibliography is very limited. When citing me, she restricts herself almost exclusively to work of Everett (1986), that is, work prior to my re-analysis of Pirahã as lacking recursion. She entirely ignores my later work, which goes into detail about why the language lacks recursion. Moreover, she never offers arguments for her assertions on any aspect of the grammar.

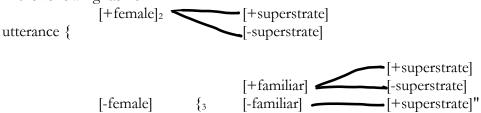
But this is exactly the conclusion of Everett (1979, 6).

Moreover, in her comparison she fails to note that there are conclusions we can draw from Nimuendajú's word lists, such as the fact that proto-Mura *d became /g/ in Pirahã and /d/ in Mura (Everett (1979, 126-128). But, again, this is not a major criticism, just a puzzle as to why she included some things, omitted others, failed to cite the relevant sources in many cases discussing the phonology, and erred seriously in other cases, all without any attempt to learn from, criticize, or otherwise interact with the previous literature.

Salles, likely unknowingly, even provides indirect evidence that she might not speak the language fluently and is not fully accepted as a social intimate of the Pirahãs when she claims (p962) that: "Heinrichs (1964) and D. Everett (1979, 1982) also noted variation between [b]~[B]and [g]~[ĭ]. Although not observed in my fieldwork, anecdotal observations by my consultants suggest that older Pirahã generations used to have [B] and [ĭ] in their inventories."

But her footnote 11 (p962) remarks that: "D. Everett (1979, 1982) argues that these sounds are only produced around people with whom the speaker is familiar. Keren Madora (p.c., July 2017) still observes speakers producing those sounds." Now Everett (1982, 1984, and 1985) describes the sociolinguistics of the use of these rare sounds. They only appear in familiarity environments, i.e. when talking to other Pirahãs (see also Everett and Ladefoged (1996). As I say in Everett (1985, 252ff):

"The circumstances surrounding the usage of the segments [B] and [I,] may be diagrammed in the following fashion:



There are thus five basic options as to the type of socio-dialogic situation involved, each of which is relevant to the production of the vibrants. When a female is speaking, she may use freely either the superstrate sound [g] or [b] or the substrate sounds [B] and [t]. If a male is speaking in a familiar environment (i.e. to those accepted as social intimates) he may use either superstrate or substrate sounds. But when speaking to someone not considered a social intimate, he will use only the superstrate sounds.

In other words, if all speakers are still using the sound around Keren Madora, then the rule above still seems to apply. If that is the case then Salles is not considered an intimate member of the group and the sound is not used around her for the reasons based on the rule just above. This is very important for identifying degrees of acceptance among the Pirahãs. It would have been helpful for assessing her standing in the community if Salles had said more these sounds and the rule just given.

Moving on to her (p963) section 2.3., Salles's discussion of Pirahã phonotactics is either wrong or she has a new, unpublished analysis that she fails to discuss here. In any case, she ignores a

"No seu trabalho "Alguns Aspectos da Ergologia Mura Pirahã" (1977: 1) Rodrigues e Oliveira citam Amazonas (1852: 207), que diz que os Mura Pirahã poderiam ser "oriundos do Peru, d'onde emigrarão, ressentidos da legislação dos Incas. Isso poderia explicar porque a familia Mura (que inclui os Mura, os Bohurá, os Yaháhi e os Pirahã (Loukotka 1968:95,96)) não tem qualquer vinculação óbvia com os demais grupos indígenas do Brasil. De milhares de pessoas (Ribeiro 1977:39) os Mura tem sido reduzidos a um pequeno grupo às margens do Rio Maici. Esse grupo, os Pirahã, dividiu-se em duas aldeias, cuja população global abrange aproximadamente cem pessoas."

large body of work - Everett (1979), Everett and Everett (1984), Everett (1988), Keren Everett/Madora (1998), Gordon (2005), among others which directly contradict her findings on Pirahã phonotactics:

"Pirahã syllables have a (C)V(V)(G) shape, where G is a glide (/j,w/).12 This representation also accounts for long vowels (VV), which are bimoraic (D. Everett 1979). Examples of each syllabic pattern are given in (8).

(8) a. VV.CV
[aa.gɪ]
'coati'⁷

Apart from glides, no other consonant can function as a coda, except the possible exception of the animal classifier ?.s, which is pronounced as [?I] when preceding a consonant-initial word and [?Iś] when followed by a vowel-initial word. There are no complex onsets, and the sequence */ki/ is not attested (see also Heinrichs 1964; D. Everett 1979; K. Everett 1998)."

Everett (1979, 35-48) offers an in-depth analysis of syllable structure in Pirahã, based on Autosegmental Phonology (Goldsmith (1976), as well as the model of Chomsky and Halle (1968) and many others cited there. Everett and Everett (1984) offer a fuller account of syllable structure and stress placement in Pirahã, where they claim (p706), that the basic syllable structures and weights of Pirahã are: CVV > GVV > VV > CV > GV. In that article they claim that C = voiceless consonant; G = voiced consonant; and V = vowel, where a voiceless consonant, C, is longer than a voiced consonant, G, and a V, vowel, is longer than both. So the hierarchy of syllable weight follows. K. Everett (1998) provides a detailed phonetic analysis of these facts.⁸

Further, D. Everett (1988) provides an in-depth discussion and analysis of metrical constituent structure in Pirahã more generally. Both K. Everett (from a phonetic perspective) and D. Everett (from phonology) argue at length that there are *no* phonological glides in Pirahã. That is, Salles offers an analysis that is at variance with previous detailed analyses by Ladefoged, K. Everett, and D. Everett. But she does this with no reference to any of them. The phonotactics section of her paper seems to be little more than her raw impressions, uninformed by the phonetics or phonological literature more generally as well as the extensive literature on the phonology of Pirahã.

When she moves on to verbal structure, the problems reoccur. So, for example, Salles states (p964) that: "The language tends towards an agglutinative structure, and it prefers suffixes. Tense, aspect, mood, and evidentiality (TAME) marking is realized through verbal suffixes, while arguments are realized as independent words and not marked on the verb, as in (10).

(10) **ti kapí kaaipí -haí** 1.pro coffee make -fut 'I will make coffee."

However, her glosses confuse free translations with the more nuanced meaning of the suffix, **-hai**, where she disregards Everett (1986) which argues that **-hai** is *not* a future marker, but part of the evidential system, indicating 'relative certainty.' It is possible that I am wrong. But I give arguments for my conclusions and she gives none. Nor does she respond to any of mine. Sheldon

⁷ Here Salles violates her own glottal insertion rule. By her own rule there should be a [?] in [aagi].

⁸ Ladefoged accompanied K. Everett and me to the Pirahãs in 1995, where he personally verified all the acoustic correlates discussed by K. Everett, as well as the stress-placement and syllable weight analysis of Everett and Everett (1984) and Everett (1988).

⁹ This is a manifestation of the "translation fallacy," discussed below.

¹⁰ If a construction in Piraha paraphrases an utterance in Portuguese, that does not mean that the relevant constructions have the same structures. For example, a middle construction in Portuguese might be translated as a passive in English but that doesn't make it a passive in Portuguese.

and Heinrichs might have called **-haí** a future tense in Pirahã, but it is not. If one asks the right questions this is clear. For example:

Hi so?óá kah - á -pi- haí ?ahoahíai. Hiagía hi kahápi - ta- hiaba pi?ái

He already go - relative certainty another day. Thus he go-repetitive-not now.

"I believe he already went yesterday. Therefore, he is not going now."

The suffix -hai, is not a future marker or tense of any kind, as predicted by Everett (1986), but not by Salles's analysis. One could provide more details of Salles's disregard of previous analyses, but that would produce diminishing intellectual returns.

Salles's account of numerals on pages 971ff is contradictory: "Quantities are expressed by three *numerals* (emphasis mine, DLE): hói (híio) 'one', hoi (hio) paucal, and báagiso 'many'. These words are used for approximation; that is, they refer to an approximate amount and not an exact quantification, which is a cross-linguistically rare phenomenon (see P. Gordon 2004 and C. Everett & Madora 2012 for experimental work on Pirahã numerosity)."

But, as many works that she fails to acknowledge or make use of establish, these are *not* numerals. For example, in a very well-known article on Pirahã numeric cognition (Frank, et. al.2008) that she *fails* to cite it is claimed that: "We show that the Pirahã have no linguistic method whatsoever for expressing exact quantity, not even "one."

That is, her decision to refer to these as "approximate numerals" misses the crucial fact that while the words indicate proximate *quantities*, they are not numerals (they do not denote numbers - counts of things). Her analysis misses the fact that this is the only language known to lack numerals and the important conclusion cited from Frank, et. al. (2008) that numerals are a cultural invention - perhaps the most important result of *all* the research into Pirahã numerical cognition. Once again, she fails to cite references that could elucidate what she is trying to describe or that disagree with her description. Of course it is fine for her to disagree with those studies, but she needs to say why she disagrees. Simply failing to cite them diminishes the quality of her work.

In her discussion of mood and aspect, p977ff, Salles gives several glosses that deviate from those given in previous work. But she offers no explanation of what tests or data she used to warrant these differences. And because TAME morphology requires access to the semantics of the language (i.e. speaking the language in a monolingual situation), it is especially important for someone to either identify their level of fluency or to offer some acknowledgement of and explanation for their deviation from previous analysis of such subtle semantic facts. TAME analyses require nuanced and subtle understanding of the language in question, or access to bilingual speakers (but there are none in Pirahã. See Sakel (2012)).

When Salles turns to the discussion of relative and correlative clauses in Pirahã, she takes her data largely from Everett (1986). But she omits all subsequent discussion by Everett of these structures. The primary difference between Everett (1986) and later works (see the long list of works arguing against any form of embedding or recursion in Pirahã listed here: https://daneverettbooks.com/collection-of-most-of-dans-papers-on-recursion/) is that the later works argue in considerable detail for conclusions incompatible with both Everett (1986) and Salles (2023). But she just ignores these works. For example (Salles (2023, 987ff)):

¹¹ The authors go on to say that "Despite this lack, when retested on the matching tasks used by Gordon, Pirahã speakers were able to perform exact matches with large numbers of objects perfectly but, as previously reported, they were inaccurate on matching tasks involving memory. These results suggest that language for exact number is a cultural invention rather than a linguistic universal, and that number words do not change our underlying representations of number but instead are a cognitive technology for keeping track of the cardinality of large sets across time, space, and changes in modality."

"At least two complementation strategies have been identified in Pirahã: nonfinite and nominalized complements, the latter of which is a common strategy for complementation in Amazonian languages. For instance, non-finite clauses occur as complements to desiderative predicates with the verb **?ogai** 'want', as in (123). The verb of the complement clause can also be nominalized, as in (124). Notice that the complement clause may precede the matrix verb or be postposed to it, as in (123) and (124), respectively.

(123) ti pi itaip. 70g-abagai

1.pro water drink want-frus 'I'd like to drink water.'

(124) ti ?og-abagai pi itaipi-sai

1.pro want-desid water drink-nmlz

'I'd like to drink water.'

Purposive clauses may also use either a non-finite complement, as in (125), or a nominalized complement, illustrated in (126). In (125) the non-finite complements may also be postposed to the matrix verb.

(125) hi bagia-.-?io hi ?ao ?agaoa kobai

3.pro come-decl-ingr 3.pro poss canoe see 'He is coming to show his canoe.' (adapted from D. Everett 1986: 265)

(126) ti ?i ?iga-.ti ?agaoa kaiti-sai

1.pro 3inan.pro take-imp canoe bore-nmlz

'I must take it to bore the canoes.' (adapted from D. Everett 1986: 265)

After close examination of all of the relevant Piraha data, contrary to Salles, Futrell, et. al. (2016, 19) conclude that: "Our analysis has failed to find strong support for syntactically embedded structures in Piraha. We emphasize that any conclusions that can be drawn from this corpus evidence must be highly tentative, due to the difficulty of working with a language whose speakers are so difficult to access, as well as the computational challenges of characterizing linguistic complexity. Our hope is that the analysis presented here, along with the release of the annotated corpus, will promote further investigation into the formal properties of natural languages and help to push the debate towards testable empirical claims." ¹²

Moreover, in an earlier study of recursion in Pirahã, Sakel and Stapert (2010, p15) conclude that: "In conclusion, the Pirahã structures we have looked at in this paper have shown no evidence of being syntactically recursive. Instead, Pirahã appears to make use of juxtaposition and morphological complexity to express complex concepts. Our conclusion is hence very similar to Everett's analysis (2005)." ¹³

Where Salles's analysis suffers most from her cherry-picking of previous work to cite, however, begins in her section 7, pp986ff: "Clause linkage, information structure, and discourse." So consider her examples (120) and (121), (p986):

¹² Notice that if there were recursion in Pirahã, multiple embeddings should be possible. No one in the long debate on Pirahã has ever shown any evidence for multiple embeddings. The debate has centered on whether it has even a single level of embedding. The works linked to earlier in this paper argue at length that the language has no embedding whatsoever.

¹³ And they go on to say that: "We have discussed a number of constructions in which even syntactically complex languages prefer non-recursive structures to recursive ones. It is possible that what other languages have as an option is the default in Pirahã. Further support comes from the fact that Pirahã is an exclusively oral language. Spoken language and predictable content are exactly the instances in which non-recursive structures are preferred in other languages such as English. Hence, there is no apparent functional need for recursion in Pirahã syntax."

"(120) [ipóihí [tábo ʔapó ʔabaipi sigiái-hi]] ti ibais-áag- áhá

woman bench on sit same-int 1.pro wife-cop-decl

'The woman (who) is the same sitting on the bench is my wife.'

(121) ti baosá pisí log-abagai [giai go -ó baosápisí bigaobá lai sigíai]

1.pro hammock want-frus 2.pro int-loc hammock show be same

'I wanted the hammock which is the same you showed me.'

(adapted from D. Everett 1986: 276)"

Although she acknowledges that at least the second example is taken from my work, she presents these as examples of embedding. That is not a terrible first guess. Everett (1986), which she cites, analyses them as she does. However, in much subsequent work I have argued (in many papers and books, see above), against analysing such examples as embedding. But Salles ignores those arguments. Moreover, example (120) fails to relate the second sentence to the concept of clarification that she mentioned earlier and which it illustrates, leading to her misanalysis or unsupported analysis of recursion.

Consider sentence (120) in more detail. In this sentence, **ti ibais-áag- áhá**, literally means "I certainly have a partner." It is a separate, clarifiying assertion. In fact, the preceding sentence she gives (minus her brackets and with my analysis) is:

PipóihítáboPapóPabaipisigiái-hiwoman boardon top ofsitsame-INT.

"(The) woman sits on top of (the) board the same one [an example of clarification/afterthought as originally described by Everett (1983), DLE]."

Ti ibais áag -á -há.

I partner have/is - remote -complete certainty

"My partner is for sure."

This is not syntactic subordination in my analysis but semantic subordination (as described in various works; see Everett and Gibson (2020) for more argumentation). Further, in my analysis, the material **sigiái-hi** 'the same one' in particular fails to show embedding, but rather illustrates appositional clarification. As I have argued in many publications (see above) and as McCawley (1982) argued many years ago, appositional material of this type in any language should in general not be analysed as determinative of the sentence structure in which it is found. Salles should say why she doesn't discuss my earlier analysis here, especially, if she is going to (in)directly contradict it. She also says (p990) that the postverbal material can indicate "afterthought:"...For instance, a rightward topicalization that D. Everett (1986) describes as a clarification topic could be more precisely described as an afterthought..."¹⁴ It is not clear that this (afterthought vs. clarification) is a difference with a difference, but the "afterthought" here in fact clarifies what the speaker has said. Indeed, this is a common type of structure in Amazonian languages, which Salles fails to note. ¹⁵

Now let us consider her examples (123) and (124), p987, which purport to show embedding:

"(123) ti pi itaipí log -abagai

(40) paigí hi ob -áaxáí paigí
nome próprio 3 ver-muito nome próprio
"Paigí sabe muito, Paigí"

Uma explicação possivel para exemplos desse tipo é que a segunda ocorrência de paigí é apenas uma sentença ou sintagma eliptica, ligada parataticamente a sentença matriz. Segundo D. Derbyshire (comunicação pessoal) esta estrutura seria comum nas linguas amazônicas sendo o elemento nominal à direita um tipo de esclarecimento e não o tópico."

¹⁴ This is all discussed at length in Everett (1983, 1986). Desmond Derbyshire (a member of my 1983 dissertation committee) in fact asked me about these very constructions at my thesis defense.

¹⁵ Everett (1983, p53) cites for example:

1.pro water drink want -frus 'I'd like to drink water.'

(124) **ti ?og -abagai pi itaipi -sai** 1.pro want -desid water drink-nmlz

'I'd like to drink water

There are several problems, again compounded by Salles's failure to consult the abundant literature on this language. First, she ignores pro-drop in Pirahã, though this is described in Everett (1984) (to put it in the terms of one sector of formal linguistics), failing to indicate the understood subjects of the clauses to the right of the main clause. Second, ignoring the work of Everett and Oliveira (2010) as well as Sakel and Stapert (2010), she glosses -sai as "nominalizer" rather than "old information." That once was a plausible analysis, before all the research cited here was conducted. This was my own analysis for many years, from Everett (1983) until Everett (2005). However it is incorrect, as the sources just cited make clear (Sakel and Stapert (2010, p2). Moreover, Everett and Oliveira, Jr. (2010) offer additional arguments that -sai does not fit a related and earlier analysis of Sauerland (2018, pp1-24). These works taken together conclude that -sai provides no evidence for subordination. So why Salles cites Sauerland in this section without mentioning the works just cited, which - each independently - refute Sauerland's claims seems puzzling.

The work cited in the link earlier is important, precise, experimental and contradicts both my earlier analysis and Salles's current analysis. Her failure to interact with this is another mystery. But there is no doubt that **-sai** is *not* a nominalizer, nor a subordinator, contra her glosses. And

¹⁶ To cite at length from Sakel and Stapert (2010, p2ff): "2. The suffix -sai

The suffix -sai figures prominently in recent discussions of recursion. Everett (1986: 277) classified it as a nominaliser and an obligatory indicator of embedding in conditional clauses (1986: 264). In his later approach (2005: 21), however, he argues that **-sai** does not mark syntactic subordination. We have studied this marker's functions, in particular with respect to whether it is an obligatory marker of embedding. We will here look at two very different constructions in which -sai is used.

The first part of our discussion is based on findings by Stapert (2007) and Stapert et al. (in preparation) [I was not able to find this paper, DLE]. They tested the functions of **-sai** experimentally in a sentence repetition task. In this experiment, two clauses representing semantically connected propositions, such as it is raining and I don't go to the forest were combined.

The suffix -sai was added to either the verb of the first or that of the second clause, cf. (1a) and (1b) and the informants were asked to merely repeat the sentence.

(1) a. Piiboi-bai-sai ti kahápi-hiaba.

rain-INTENS-SAI 1 go-NEG

'If it is raining I won't go.'

b. Piiboi-bai ti kahápi-hiabi-sai.

rain-INTERS 1 go-NEG-SAI

'If it is raining I won't go.'

A total of nine speakers of Pirahã – 7 women and 2 men – participated in this language task. In their response, informants attached -sai to the first clause, the second clause, both clauses, or neither of the clauses (cf. 2) independent of the input and with no reported change in meaning or judgement of (un)grammaticality.

(2) Piiboi-bai ti kahápi-hiaba.

Rain-INTENS 1 go-NEG

'If it is raining I won't go.'

Out of a total of 39 relevant responses -sai was attached to both clauses in 9 cases, to none in 6, and to one clause – either the rain part or the forest part – in 24 instances. The alternative in which -sai does not occur in either clause (2) was not part of the input of the experiment. Hence a simple repetition of an ungrammatical sentence from the input is ruled out. This means that the concept can be expressed without the presence of -sai; thus this marker can not be an obligatory marker of embedding. Still unclear, however, is the exact function of -sai in these constructions, but it does not appear to be a marker of subordination, as originally claimed by Everett (1986)."

therefore, as pointed out by Sakel and Stapert in the quote just given it cannot support the subordination analysis that Salles presupposes without argument.

The examples from her work just discussed fail to discuss "pro-drop" of both objects and subjects in Pirahã. That is, overt subjects are commonly omitted in in contiguous sentences when there is no change of subject (and occasionally even when the subject changes, depending on the understood subject's discourse function, e.g. topic). This is a discourse phenomenon and one I claim has nothing to do with embedding, even though I did analyze it this way before I understood Pirahã texts. Salles seems to have stuck with this erroneous analysis while ignoring the intervening literature. Again, it would be fine for her to disagree with any and all conclusions of the previous literature. But only at the cost of arguing for her position against the previous literature, which she doesn't do. Instead, she treats her novel analysis as though there were no previous analysis and hence fails to say in what way her chosen analysis is preferable to the previous analysis.

In her (125) and (126), p987, she continues this line of exposition: "Purposive clauses may also use either a non-finite complement, as in (125), or a nominalized complement, illustrated in (126). In (125) the non-finite complements may also be postposed to the matrix verb.

- (126) **ti ?i ?iga áti ?agaoakaiti -sai**1.pro 3inan.pro take -imp canoe bore -nmlz
 'I must take it to bore the canoes.'
 (adapted from D. Everett 1986: 265)

However, contra Salles, these should be analyzed as two-sentence clusters and, according to my work, they should have been represented as:

- (125') hi bagia -áo ?io. Hi ?ao ?agaoakobai 3.pro come -decl -ingr. 3.pro poss canoe see 'He is coming. He will see the canoe."
- (126') **ti 7i 7iga áti. 7agaoakaiti -sai**1.pro 3inan.pro take -certainty canoe bore -old information
 "I it will take. (I will) bore it."

The fact that **-sai** is not a nominalizer, supports the claim that there are *no* non-finite clauses in Pirahã. My analysis in (125') and (126') might be incorrect. But it better fits the analyses of Everett and Oliveira (2010) and Sakel and Stapert (2010). At the very least, this alternative view of the structures, crucial given the controversy surrounding embedding in the language, should have been cited and divergences with previous analyses addressed by Salles.

Morever, Salles ignores Everett (1986)'s extensive discussion of verb structure, though she cites that source. I suspect that this is again because she does not speak the language well and verb structure requires a more than beginning command of semantics, as well as an ability to discuss the examples in detail with native speakers in their language. Anyone working on Pirahã must acknowledge that no Pirahãs (not even the so-called "gatekeepers") can carry on a detailed conversation in Portuguese, just as she cannot carry on a conversation in Pirahã.¹⁷

Salles goes on to claim (p988): "Reported speech also uses nominalization, but of the matrix verb; the verb **gái** 'say' appears in possessive constructions to introduce a direct quote, shown in (128).

¹⁷ It is possible that since my last visit to the Pirahãs in 2009 (see Pullum (2024) on why that was my last visit), that this has changed, although Keren Madora says it has not (and she has lived with the Pirahãs almost continuously since 1980).

(128) hi gái-sai ti pio.hai ?ogái

1.pro say-nmlz 1.pro soda want 'His saying is: "I want soda"."

She continues (ibid): "Sauerland (2019 [sic, 2018]) presents evidence that the direct quote acts as a complement clause in such constructions. He conducted a comprehension study where consultants heard a speaker producing a false statement followed by another speaker reporting this false statement in a structure such as (128). When asked for felicity judgments, consultants often correctly classified the first speaker's statement as false but the report as true. A coordinated or paratactic construction would not render the reported statement as true, so Sauerland concludes that there is embedding; that is, what is true is that the first speaker said the sentence, not the sentence itself. Further evidence that this is an embedded construction comes from the fact that they can stack, as in (129), where the speech of a third speaker is embedded under the speech of a second one.

(129) Maaga hi gái-sai Hiahoai hi gái-sai t. pio.hai ?ogái

Maaga 3.pro say-nmlz Hiahoai 3.pro say-nmlz 1.pro soda want 'Maaga says that Hiahoai says "I want soda".' (Lit. 'Maaga's saying is: "Hiahoai's saying is: 'I want soda"'.')"

Ignoring the phonological, morphosyntactic, and phonetic errors in Sauerland's data, these provide no experimental evidence for syntactic embedding (though, again, semantic subordination does occur - see the works linked earlier). This was shown by Everett and Gibson (2019, 783) in their review of Amaral, et. al. (2018) which evaluates Sauerland's experimental claims very negatively (ignored by Salles). I cite at length here because Salles has ignored this discussion entirely: "There are several problems with the research reported in this chapter. Most importantly, Sauerland confuses a potential embedded interpretation with a need for syntactic embedding to obtain that interpretation. In particular, there is no reason to assume that interpreting 2 as "Toe said "I have been to the stars" requires any syntactic recursion. As many others have noted in the discussion of recursion (including many authors in this very volume), sets of nonembedded syntactic materials can easily give rise to an embedded semantic interpretation, especially if such an interpretation is contextually supported. For example, in Ch. 2, Bart Hollebrandse makes exactly this point about English examples like 5 (ex. 7a, p. 37). (5) Malcolm is guilty. The jury thinks that. The judge knows that. An available interpretation of 5 is that the judge knows that the jury knows that Malcolm is guilty, in spite of the fact that there is no syntactic embedding in this example.

Similarly for 2, given a context in which someone has just said 'I have been to the stars', if a second speaker says 'Speaker 1 said something. I have been to the stars', most listeners will agree that the meaning of this in the context is that speaker 1 said that he has been to the stars, even though there was no syntactic embedding in the original statement.

Indeed, this alternative possibility to Sauerland's assumed reading is testable, so we tested it. We ran the relevant control experiment in English, with twenty participants from Amazon's Mechanical Turk. In creating our experimental items (given in the appendix to this review), we started with the written versions of all ten of Sauerland's items (as presented in the appendix in his paper), and we used the instructions that Sauerland provided ('Did speaker B hear well?'). Example target and control items are given in 6 and 7.

(6) Example target item

John: 'I have been to the stars.'

Bill: John said something. I have been to the stars.

(7) Example control item

John: 'I have been to the moon.'

Bill: John said something. I have been to the sun.

Note that there is no syntactic embedding in the written form of what Bill says in each discourse: there is no quotation or embedded sentence. The embedded meaning would have to be inferred, because it is not present in the syntax. Our English participants agreed with the target sentence on 99% of the trials, demonstrating that they obtained the embedded interpretation in spite of the lack of embedded syntax. Furthermore, they disagreed with the control (as desired) on 98% of the trials. All materials and results are available at https://osf.io/z86k2/."

It seems difficult to reach any conclusion but that Salles's chapter on Pirahã, is the result of faulty research. There is much more that could be said about Salles's analysis, but this is representative. Her efforts to show that Pirahã has recursive structures relies on poor (or no) argumentation, failure to cite research that disagrees with her conclusions, and semantic judgements made without semantics knowledge of the language. Therefore, I see no reason to believe that Salles's data have any bearing on previous work on Piraha.

Now I will consider here one other potential counterproposal on Pirahã recursion, this one having to do with quantification (also see my remarks on quantification in Everett (in progress) and in my earlier LingBuzz paper: https://ling.auf.net/lingbuzz/007670). Imagine that a person committed to quantification as a syntactic category, rather than as a semiotic concept as discussed above, might take a different tack, arguing that, contra all of my recent work, Pirahã does in fact have quantification. For example, one might take evidence from the very title of my book (if one assumes it is a literal translation from Pirahã), Don't Sleep. There Are Snakes. 18 Doesn't the phrase "there are snakes" presuppose existential quantification? The answer is "not linguistically." This is just a fact about human inferential ability (see Everett (2023b)). Claiming this would be to confuse quantification with genericity. As discussed above, nowhere do I deny the existence of generalizations or generics in Pirahã. But generics are not quantification, as we have seen. A more syntactic suggestion might run along the following lines. Suppose, for example, that we construct the following Pirahã sentence (a linguistic experiment):

hi xogiágaó gái-sai [pro hi káixihí xoab-á-há

he bigness say - old information. He paca kill -remote - complete certainty

This would translate literally into Pirahã as "The bulk (of the people) spoke. He killed the paca."

In English a freer, more natural (but inaccurate literally) translation would be

"They all said they killed a paca."

No complex or more abstract (e.g. with phonologically null categories) is needed. But suppose one wanted to defend a more abstract analysis, e.g.:

[pro hi xogiágaó gái-sai [pro hi káixihí xoab-á-há]]

3.AGR all say-old.inf **3.AGR** paca kill-remote-compl.cert.

"They all said (or so I hear) they definitely killed a paca."

¹⁸ This in fact is an idiomatic construction in Pirahã for which nouns other than "snakes" may be substituted:

[?]áitabísaha?aí baóhoipaiíi/tigaiti

sleep-remain-prohibitive jaguar/snake "Sleep not! Jaguar/Snake."

The meaning is not guided so much by the syntax as by inference. Just about anything could follow "sleep not." In fact, the original title of my book was not to be Don't sleep, there are snakes, but Don't sleep, there are jaguars. That was nixed by my publishers who thought people would think of Jaguar cars.

According to this analysis if the **pro**, like a quantifier, binds the pronominal subject of "kill," then pro must c-command a pronominal variable. If this is the case, the phrase's sister clause must contain the pronominal variable, a term in an hierarchically structured embedded phrase. Such an analysis might lead us to conclude that Pirahã indeed *does* contain recursive structures and quantifiers, generated by a recursive procedure. A perfectly natural result if this turns out to be correct.

But this is incorrect. It assumes that there is only one analysis, a Minimalist analysis, possible for analyzing such sentences. Yet, as I have shown in many papers (once again a partial list is given here - https://daneverettbooks.com/collection-of-most-of-dans-papers-on-recursion/ for a list of my papers on recursion), there are two sentences here. "The bulk of them spoke. (They) killed a paca." The understood subject of the second sentence can refer to "the bulk of them" or not. It is not a bound variable. Hence the first task, therefore, of the hypothetical analysis of syntactic quantification in Pirahã would be to show that what I have represented as bisententiality is unisententiality. I won't rehash here the arguments for the conclusion that examples such as those in this footnote represent two sentences (given in the papers linked to just above), but consider the fact that if the order changes or if there is an intervening clause nothing else changes:

Hi káixihí xoab-á-há. Hi ?itii?isi xoab-á-hiaba-há. Hi xogiágaó gái-sai.

He paca kill -remote - complete certainty. He fish kill not remote complete certainty. He bigness say - old information.

"He (singular or plural) killed a paca. He did not kill a fish. The bulk of the men say this."

No intrasentential binding is here. These are three separate sentences (at the very least, the final clause is not part of the first clause). So this counterfactual line of reasoning is irrelevant to the analysis of Piraha quantification and recursion.

REFERENCES

These references are from the larger work that the review above is a small part of.

- **W** followed by volume and page number refers to Writings of Charles S. Peirce. A Chronological Edition, 8 vols. Ed. the Peirce Edition Project. Indianapolis, 1982–2009.
- **EP** followed by page number refers to The Essential Peirce. Ed. the Peirce Edition Project. Indianapolis, 1998. **R** followed by manuscript and, when available, page number, refers to Peirce's unpublished manuscripts in the Houghton Library, Harvard University. MS numeration follows R. Robin. 1967. Annotated Catalogue of the
- Houghton Library, Harvard University. MS numeration follows R. Robin. 196/. Annotated Catalogue of the Papers of Charles S. Peirce. Worcester, MA.
- **CP** followed by volume and paragraph number refers to Collected Papers of Charles S. Peirce, 8 vols. Eds. C. Hartshorne/P. Weiss/A. Burks, Cambridge, MA, 1932–1958.
- Abusch, Dorit and Mats Rooth. 2006. "Comments on Enlightened Update." Unpublished ms. (https://conf.ling.cornell.edu/abusch/abusch-rooth-enlightened-update.pdf)
- Aikhenvald, Alexandra Y. 2015. "Evidentials: Their links with other grammatical categories." Linguistic Typology 2015; 19(2): 239–277
- Amaral, Luiz, Marcus Maia, Andrew Nevins, and Tom Roeper, eds. 2018. Recursion across domains. Cambridge: Cambridge University Press.
- Anderson, Benedict. 2016. "Frameworks of Comparison: Benedict Anderson Reflects on His Intellectual Formation." *London Review of Books*, vol. 38, no. 2. 21 January.
- Anonymous. 1984. "Notícia da Voluntária Redução de Paz da Feroz Nação do Gentio Mura. 1784, 1785 e 1786". In: Boletim CEDEAM, v.3, nº 5. Manaus: UFAM.
- Arhem, K. 1993. "Ecosofia makuna." In F. Correia (ed.), La Selva Humanizada: Ecologia Alternativa en el Tropico Humedo Colombiana. Bogota: Instituto Colombiano de Antropologia, Fondo FEN Colombia, Fondo Editorial CEREC.
- Atkins, Richard Kenneth. 2023. Peirce on Inference: Validity, Strength, and the Community of Inquirers. Oxford University Press. Oxford, UK.
- Atkins, Richard Kenneth. 2018. Charles Peirce's Phenomenology: Analysis and Consciousness. Oxford University Press, Oxford, UK.
- Atkins, Richard Kenneth. 2017. "Inferential Modeling of Percept Formation: Peirce's Fourth Cotary Proposition," In: Hull and Atkins, eds.
- Aurelius, Marcus. 1944. The Meditations of the Emperor Marcus Antoninus, book 12:1.
- Ayer, A.J. 1968. The Origins of Pragmatism: Studies in the Philosophy of Charles Sanders Peirce and William James. Macmillan, London, UK.
- Bacha, Maria L. 2004. "The Evolution of Peirce's Concept of Induction," The Commens Encyclopedia: The Digital Encyclopedia of Peirce Studies, http://www.commens.org/encyclopedia/article/bacha-maria-lourdes-evolution-peirces-concept-induction.
- Baker, Mark. 1988. **Incorporation: A Theory of Grammatical Function Changing,** University of Chicago Press.
- Baker, Mark. 1995. On the Absence of Certain Quantifiers in Mohawk. In Emmon Bach, Eloise Jelinek, Angelika Kratzer & Barbara Partee (eds.), Quantification in Natural Languages. Kluwer Academic Publishers. pp. 21--58 (1995)
- Baltin, Mark R. and Anthony S. Kroch. 1989. Alternative Conceptions of Phrase Structure. University of Chicago Press, Chicago, IL.
- Bar-Haim, Roy, Ido Dagan, Iddo Greental, and Eyal Shnarch. 2007. "Semantic Inference at the Lexical-Syntactic Level," Association for the Advancement of Artificial Intelligence.

- Barham, Larry and Daniel Everett. 2020. "Semiotics and the Origin of Language in the Lower Paleolithic," **Journal of Archaeological Method and Theory** (online).
- Barham, Larry, G.A.T. Duller, I. Candy, C. Scott, C.R. Cartwright, J.R. Peterson, C. Kabuckcu, M.S. Chapot, F. Melia, V. Rots, N. George, N. Taipale, P. Gethin, and P. Nkombwe. 2023. Evidence for the earliest structural use of wood at least 476,000 years ago. **Nature**, volume 622, pages 107–111 (2023)
- Bar-Hillel, Yehoshua. 1964 [1960]. "A Demonstration of the Nonfeasibility of Fully Automatic High Quality Translation." in Y.Bar-Hillel: *Language and information*. Addison-Wesley, Reading, Mass. 1964. p.174-179.
- Baroni, Marco. 2021. "Linguistic generalization and compositionality in modern artificial neural networks," *Philosophical Transactions B*, Royal Society Publishing.
- Bellucci, Francesco 2021. "Peirce on Symbols." *Archiv für Geschichte der Philosophie*, 103, 1. pp.169-188. Bellucci, Francesco. 2018. Peirce's Speculative Grammar: Logic as Semiotics. Routledge, London, UK.
- Bellucci, Francesco. 2016. "Inferences from Signs: Peirce and the Recovery of the σημεῖον," Transactions of the Charles S. Peirce Society, Vol. 52, 2. pp. 259-284.
- Belnap, Nuel D. 1962. "Tonk, Plonk, and Plink," Analysis, vol. 22, 6. pp. 130-134.
- Bergman, Mats. 2009. Peirce's Philosophy of Communication. Continuum, London, UK.
- Bergen, Leon, Roger Levy, and Noah Goodman. 2016. "Pragmatic Reasoning Through Semantic Inference," Semantics and Pragmatics, Vol. 9, Article 20, http://dx.doi.org/10.3765/sp.
- Berlin, Brent. 2005. Comments on Daniel L. Everett, "Cultural Constraints on Grammar and Cognition in Pirahã Another Look at the Design Features of Human Language," In: Current Anthropology 46, no. 4 (August/October 2005): 621-646.
- Bernstein, Richard J. 2010. The Pragmatic Turn. Polity, Cambridge, UK.
- Bienenstock, Elie, Stuart Geman, and David Potter. 1996. "Compositionality, MDL priors, and object recognition," *Proceedings of the Conference on Neural Information Processing*, pp. 838-844.
- Bisang, Walter. 2013. "Chinese from a Typological Perspective." Human Languages and Linguistic Typology, Papers from the Fourth International Conference on Sinology. Taipei, Academia Sinica.
- Bishop, Ryan. 2000. "Edward Sapir: Form, Meaning, and Style The fate of a Public Intellectual and the Institutionalization of the Social Sciences." Australasian Journal of American Studies, Vol. 19. No 1, pp18-38.
- Black, Max (ed.). 1965. Philosophy in America. Cornell University Press.
- Boas, Franz, ed. 2002. Handbook of American Indian languages. Bristol, UK: Thoemmes.
- Boas, Franz. 1982 [1917]. 'Introduction to the **International Journal of American Linguistics'**, In: Franz Boas, ed., **Franz Boas: Race, Language, and Culture**, The University of Chicago Press, pp.199-210.
- Bogdan, Radu J. 2009. Predicative Minds: The Social Ontogeny of Propositional Thinking. MIT Press, Cambridge, MA.
- Bracken, Harry M. 1984. Mind and Language: Essays on Descarte and Chomsky. Foris Books, Dordrecht, Netherlands.
- Bradbury, Jack W. and Sandra L. Vehrencamp. 2011. Principles of Animal Communication, Oxford University Press. New York.
- Brandom, Robert B. 2008. Between Saying and Doing: Towards an Analytic Pragmatism, Oxford University Press, Oxford, UK.
- Brandom, Robert. 2007. "Inferentialism and Some of its Challenges," Philosophy and Phenomenological Research, Vol. 74, 3. pp. 651-676.

- Brandom, Robert B. 2000. Articulating Reasons: An Introduction to Inferentialism. Harvard University Press, Cambridge, MA.
- Brandom, Robert B. 1994. Making it Explicit: Reasoning, Representing, and Discursive Commitment. Harvard University Press.
- Brandom, Robert B. 1983. Asserting. Noûs, Nov., 1983, Vol. 17, No. 4 (Nov., 1983), pp. 637-650 Bricker, Phillip. 2016. Composition as a Kind of Identity. Inquiry 59, 3: pp264-294. Routledge, London.
- Briscoe, Ted. 2012. "From Semantics to (Plausible) Inference," unpublished ms, Cambridge University Computer Laboratory.
- Burch, R. 2001. Charles Sanders Peirce. Stanford Encyclopedia of Philosophy.
- Buzzetti, Dino and Maurizio Ferriani. 1987. Speculative Grammar, Universal Grammar, and Philosophical Analysis of Language. John Benjamins Publishing Company. Philadelphia.
- Cadbury, Deborah. 2001. Dinosaur Hunters. Harper Collins, NY.
- Cárdenas, Paniel Reyes. 2018. Scholastic Realism: A Key to Understanding Peirce's Philosophy. Peter Lang, New York.
- Carey, Susan. 2004. "Bootstrapping and the Origin of Concepts," Daedalus, 59-68.
- Carlson, Gregory N. and Francis Jeffry Pelletier. 1995. The Generic Book. University of Chicago Press.
- Cave, Alfred. 1996. Pequot War. University of Massachusetts Press, Amherst, MA.
- Chapman, Siobhan. 2005. Paul Grice: Philosopher and Linguist. Palgrave-Macmillan, New York, NY.
- Chomsky, Noam (2007). "Approaching UG from Below". In Hans-Martin Gärtner; Uli Sauerland (eds.). Interfaces + Recursion = Language? Chomsky's Minimalism and the View from Syntax-Semantics. Studies in Generative Grammar. Berlin: Mouton de Gruyter. ISBN 978-3-11-018872-1.
- Chomsky, Noam. 2002. 'An Interview on Minimalism', In: Adriana Belletti and Luigi Rizzi, eds., Noam Chomsky on Nature and Language, Cambridge University Press, pp.92-161.
- Chomsky, Noam. 1995. The Minimalist Program. MIT Press. Cambridge, MA.
- Chomsky, Noam. 1994. Michael C. Haley and Ronald F. Lunsford, eds. *Noam Chomsky*. Twayne. pp. 182-1966
- Chomsky, Noam 1986. Knowledge of language: its nature, origin and use. Praeger, New York.
- Chomsky, Noam. 1980. Rules and Representations. Columbia University Press. New York.
- Chomsky, Noam. 1975. **The Logical Structure of Linguistic Theory**, The University of Chicago Press.
- Chomsky, Noam. 1972. Language and Mind. Harcourt College Publications. New York.
- Chomsky, Noam. 1966. Cartesian Linguistics: A Chapter in the History of Rationalist Thought. Harper & Row, New York, NY.
- Chomsky, Noam. 1965. Aspects of the Theory of Syntax. MIT Press. Cambridge, MA.
- Chomsky, Noam. 1957. Syntactic Structures. Mouton. The Hague.
- Cleary, David. 1998. "Lost Altogether to the Civilised World": Race and the Cabanagem in Northern Brazil, 1750 to 1850." Comparative Studies in Society and History, Vol. 40, No. 1 (Jan., 1998), pp. 109-135. Cambridge University Press.
- Colapietro, Vincent. 2007. "C.S. Peirce's Rhetorical Turn," Transactions of the Charles S. Peirce Society, vol. 43, 1. pp. 16-52.
- Comrie, Bernard. 1985: Tense, Cambridge University Press.
- Conkin, Paul K. 2005. Puritans and Pragmatists: Eight Eminent American Thinkers. Baylor University Press.

- Covington, Michael A. 1984. Syntactic Theory in the High Middle Ages. Cambridge University Press, Cambridge, UK.
- Cuccio, Valentina and Vittorio Gallese. 2018. "A Peircean Account of Concepts: Grounding Abstraction in Phylogeny Through a Comparative Neuroscientific Perspective," Philosophical Transactions B, pp. 1-10.
- Culicover, Peter W. and Ray Jackendoff. 2005. Simpler Syntax. Oxford University Press. New York. Davidson, Donald. 1999. "The Emergence of Thought." Erkenntnis (1975-), 1999, Vol. 51, No. 1, Animal Mind (1999), pp. 7-17
- Davidson, Donald. 1967. "The logical form of action sentences", In: Nicholas Rescher (ed.) *The Logic of Decision and Action*, pp. 81-95, University of Pittsburgh Press.
- Deacon, Terrence W. 2011. "The Symbol Concept," In: Kathleen R. Gibson and Maggie Tallerman, eds, The Oxford Handbook of Language Evolution Online Chapter 43.
- Deacon, Terrence W. 1998. The Symbolic Species: The Co-Evolution of Language and the Brain. W.W. Norton. New York.
- Declerck, Renaat. 1991. Tense in English. Routledge, London.
- Derbyshire, D. (1979). Hixkaryana. Amsterdam: North-Holland Publishing. ISBN.
- Devitt, Michael. 2006b. Intuitions in Linguistics. Brit. J. Phil. Sci. 57 (2006), 481-513
- Devitt, Michael. 2006a. Ignorance of Language. Oxford University Press. New York.
- Didion, Joan. 2021. Let Me Tell You What I Mean. Knopf. New York.
- Dienst, Stefan (2010). The internal classification of the Arawan languages. LIAMES: Línguas Indígenas Americanas, 8(1), 61-67. doi:10.20396/liames.v8i1.1471
- Dixon, R.M.W. 2004. Jarawara Language of Southern Amazonia. Oxford University Press.
- Dowty, David. 2007. "Compositionality as an Empirical Problem," In: Chris Barker and Pauline I. Jacobson (eds.), *Direct Compositionality*, Oxford University Press, pp 14-23.
- Dretske, Fred. 1995. Naturalizing the Mind. MIT Press, Cambridge, MA.
- Duhem, Pierre. 1954. The Aim and Structure of Physical Theory. Princeton University Press. Princeton, NJ.
- Edmonds, David. 2020. The Murder of Professor Schlick: The Rise and Fall of the Vienna Circle. Princeton University Press.
- Edwards, Jonathan. 1957-2008. The Works of Jonathan Edwards, 26 volumes, New Haven, CT: Yale University Press.
- Eisele, Carol ed. 1976. The New Elements of Mathematics, volumes 1-4. Mouton. The Hague. (Collection of Peirce's mathematical writings.)
- Emerson, Ralph Waldo. 2008. Natural History of the Intellect. Yale.
- Everett, Caleb D. and Keren Madora. 2012. "Quantity Recognition Among Speakers of an AnumericLanguage, Cognitive Science 36 130–141."
- Everett, Caleb D. 2023. A Myriad of Tongues. Harvard University Press. Cambridge, MA.
- Everett, Caleb D. 2017. Numbers and the Making of Us. Harvard University Press. Cambridge, MA.
- Everett, Caleb D. 2016. Linguistic Relativity. De Gruyter Mouton. The Hague.
- Everett, Daniel L. 2023b. "Peirce's Universal Grammar: Some Implications for Modern Linguistics," In: Cornelius DeWaal, ed., Oxford Handbook on C.S. Peirce, pp 601-640. pp601-640.
- Everett, Daniel L. 2023a. "Underspecified Temporal Semiosis in Pirahã," In: Prof. Kasia Jasczolt, ed., **Understanding Human Time**, Oxford University Press.
- Everett, Daniel L. 2020. "O Papel da Cultura na Língua e na Cognição," 50th Anniversary Edition of the Proceedings of **ABRALIN** (Brazilian Linguistics Association), ABRALIN Press, São Paulo, Brazil).
- Everett, Daniel L. 2019. "The American Aristotle," Aeon Magazine, https://aeon.co/essays/charlessanders-peirce-was-americas-greatest-thinker.

- Everett, Daniel L. 2017. How Language Began. The Story of Humanity's Greatest Invention, Liveright. New York.
- Everett, Daniel L. 2016. Dark Matter of the Mind: The Culturally Articulated Unconscious. University of Chicago Press. Chicago.
- Everett, Daniel L. 2012a. *Language: The Cultural Tool*, Pantheon Books (Random House USA) and Profile (UK).
- Everett, Daniel L. 2012b. 'What does Pirahã Have to Teach Us About Human Language and the Mind?' WTREs Cogn Sci. doi: 10.1002/wcs.1195.
- Everett, Daniel L. 2012c. 'Concentric Circles of Attachment in Pirahã: A Brief Survey' In: Keller, Heidi and Hiltrud Otto (eds.), Different Faces of Attachment: Cultural Variations of a Universal Human Need, Cambridge University Press.
- Everett, Daniel L. 2010. "You Drink. You Drive. You Go to Jail. Where's Recursion?" *Lingbuzz*. lingbuzz/001141
- Everett, Daniel L. 2009a. 'Pirahã Culture and Grammar: A Reply to Some Criticisms.' *Language*. 85, 2: pp 405-442. 10.153/lan.0.0104.
- Everett, Daniel L. 2009b. 'Wari' Intentional State Construction Predicates,' In: Robert Van Valin (ed.), *Investigations of the Syntax-Semantics-Pragmatics Interface*, John Benjamins Publishing Company, Amsterdam.
- Everett, Daniel L. 2009c. Interview with Dan Everett. In: Geoffrey Sampson, David Gil, and Peter Trudgill (eds.), Language Complexity as an Evolving Variable, Oxford University Press.
- Everett, Daniel L. 2005. "Cultural Constraints on Grammar and Cognition in Pirahã: Another Look at the Design Features of Human Language." **Current Anthropology**, 76: 621-646.
- Everett, Daniel L. 2004. 'Coherent Fieldwork,' In: Piet van Sterkenberg, ed., Linguistics Today, John Benjamins Publishing, 141-162.
- Everett, Daniel L. 2001. 'Monolingual Field Research', In: Paul Newman and Martha Ratliff, eds., Linguistic Fieldwork, Cambridge University Press, Cambridge, pp.166-188.
- Everett, Daniel L. 1996. Why There Are No Clitics. SIL-UTA, Arlington, TX.
- Everett, Daniel L. 1994. 'The Sentential Divide in Language and Cognition: Pragmatics of Word Order Flexibility and Related Issues', **The Journal of Pragmatics & Cognition**, 2:1, pp 131-166.
- Everett, Daniel L. 1993. "Sapir, Reichenbach, and the Syntax of Tense in Pirahã," *Pragmatics & Cognition* 1:1, 89-124.
- Everett, Daniel L. 1988 'On Metrical Constituent Structure in Pirahã Phonology,' **Natural** Language and Linguistic Theory 6, pp 207-246.
- Everett, Daniel L. 1987. Pirahã Clitic Doubling. Natural Language and Linguistic Theory, 5, pp.245-276.
- Everett, Daniel L. 1986. Pirahã. In: Desmond Derbyshire and Geoffrey Pullum (eds.) Handbook of Amazonian Languages I, Mouton DeGruyter, Berlin, pp200-326.
- Everett, Daniel L. 1985b. 'Syllable Weight, Sloppy Phonemes, and Channels in Pirahã Discourse,' In: Mary Niepokuj et.al. (eds.) **Proceedings of the Berkeley Linguistics Society** 11, pp 408-416.
- Everett, Daniel L. 1985a. 'Dialogue and the Selection of Data for a Grammar,' In: Marcelo Dascal (ed.) Dialogue: An Interdisciplinary Approach, John Benjamins, Amsterdam, pp 251-267.
- Everett, Daniel L. 1984b. Clitic doubling and M-chains in Pirahã, UND-SIL Working Papers in Linguistics, Volume 28, Article 2. (https://commons.und.edu/cgi/viewcontent.cgi?article=1270&context=sil-work-papers)

- Everett, Daniel L. 1984a. 'Sociophonetic Restrictions on Subphonemic Elements in Pirahã,' In: A. Cohen and M.P.R. van den Broecke (eds.) Proceedings of the X International Congress of Phonetic Sciences, Foris, Dordrecht, pp 606-610.
- Everett, Daniel L. and Keren M. Everett. 1984. On the relevance of Syllable Onsets to Stress Placement. **Linguistic Inquiry** 15, pp 705-711.
- Everett, Daniel L. 1983. *A Lingua Pirahã e a Teoria da Sintaxe*, Sc.D. dissertation, Universidade Estadual de Campinas.
- Everett, Daniel L. 1982. 'Phonetic Rarities in Pirahã,' **Journal of the International Phonetics Association**, December, pp 94-96.
- Everett, Daniel L. 1979. Aspectos da Fonologia do Pirahã, MA thesis, Universidade Estadual de Campinas.
- Everett, Daniel L. and Edward Gibson. 2020. "Semantics requires knowledge of meaning: A reply to Rodrigues" Lingbuzz. https://ling.auf.net/lingbuzz/005060
- Everett, Daniel L. and Edward Gibson. 2019. Review of Recursion Across Domains. Language, Volume 95, Number 4, December 2019, pp. 777-790
- Everett, Daniel L. and Miguel Oliveira, Jr. 2010. Remarks on the Pirahã suffix -sai and Complex Syntax. https://ling.auf.net/lingbuzz/001119
- Everett, Daniel L. and Barbara Kern. 1997. Wari': The Pacaas Novos Language of Western Brazil, Routledge Descriptive Series, London.
- Everett, Keren M. 1998. 'The Acoustic Correlates of Stress in Pirahã', **The Journal of Amazonian** Languages, 1:104-162.
- Fauconnier, Gilles. 1997. Mappings in Thought and Language. Cambridge University Press, Cambridge, UK.
- Fedorenko, Evelina, Idan Asher Blank, Matthew Siegelman, and Zachary Mineroff. 2020. Lack of selectivity for syntax relative to word meanings throughout the language network. Cognition 203
- Fedorenko, Evelina and Sharon L. Thompson-Schill. 2014. Reworking the Language Network. Trends in Cognitive Science, 2014 Mar;18(3):120-6.
- Felizes, Pedro Vaz. 2023. Nomes, corpos e lugares na etnografia pirahã [names, bodies, and places in pirahã ethnography]. São Carlos, Brazil: Programa de Pós- Graduação em Antropologia Social Universidade Federal de São Carlos [Social Anthropology Graduate Program, Federal University of São Carlos]. (MA thesis).
- Feuer, Lewis S. 1953. Sociological Aspects of the Relation between Language and Philosophy. Philosophy of Science, Apr., Vol. 20, No. 2, pp. 85-100
- Floyd, Simeon. 2016. "Modally Hybrid Grammar? Celestial Pointing for Time-of-Day Reference in Nheengatu," *Language*, 92, 1.
- Fodor, Jerry A. 1981. Representations: Philosophical Essays on the Foundations of Cognitive Science. MIT Press. Cambridge, MA.
- Fodor, Jerry A. 1980. The Language of Thought. Harvard University Press. Cambridge, MA.
- Fodor, Jerry A. and Ernest Lepore. 2002. *The Compositionality Papers*. Oxford University Press, Oxford.
- Font, Josep Maria and Ramón Jansana. 1996. A general algebraic semantics for sentential logics. Springer-Verlag.
- Forster, Paul. 2011. Peirce and the Threat of Nominalism. Cambridge University Press, Cambridge.
- Frank, Michael, Daniel Everett, Evelina Fedorenko, and Edward Gibson. 2008. 'Number as a cognitive technology: Evidence from Pirahã language and cognition' **Cognition**. 1: Cognition 108(3):819-24. Epub 2008 June 10.

- Frank, Michael C. and Noah D. Goodman. 2012. "Predicting Pragmatic Reasoning in Language Games," Science, Volume 336, May 2021, 998.
- Frege, Gottlob. 1984, Collected Papers on Mathematics, Logic, and Philosophy, Brian McGuiness (ed.), Oxford: Blackwell.
- Frege, Gottlob. 1950 [1884]. Die Grundlagen der Arithmetik. Breslau: Verlag von Wilhelm Koebner/New York Philosophical Library Publishers.
- Frege, Gottlob. 1892, "On Concept and Object", Vierteljahrsschrift für wissenschaftliche Philosophie, 16: 192–205, Peter Geach (trans.), 1952, Translations from the Philosophical Writings of Gottlob Frege, Oxford: Blackwell, pp. 42–55. Reprinted in Frege 1984: 182–194.
- Futrell, Richard, Laura Stearns, Steven T. Piantadosi, Daniel Everett and Edward Gibson. 2016. A Corpus Investigation of Syntactic Embedding in Pirahã, PLoS ONE 11(3): e0145289. doi:10.1371/journal.pone.0145289
- Gardiner, H.N. 1900. "The Early Idealism of Jonathan Edwards," The Philosophical Review, Nov 1900, Vol 9, No. 6, pp 573-596.
- Garrett, Don. 1997. Cognition and Commitment in Hume's Philosophy. Oxford University Press, Oxford, UK.
- Gayral, Françoise, Daniel Kayser, François Lévy. 2006. "Challenging the Principle of Compositionality in Interpreting Natural Language Texts," E. Machery, M. Werning, G. Schurz, eds. *The Compositionality of Meaning and Content*, vol II,, ontos verlag, pp.83–105, 2005, applications to Linguistics, Psychology, and Neuroscience.
- Gibbon, Dafydd and Sascha Griffiths. 2017. "Multilinear Grammar: Ranks and Interpretations." Open Linguistics, 3: 265-307.
- Gibson, Edward A.F. and Evelina Fedorenko. 2013. The need for quantitative methods in syntax and semantics research, Language and Cognitive Processes, Vol. 28, pp: 88-124
- Gillies, Donald. "The Duhem Thesis and the Quine Thesis", in Martin Curd and J.A. Cover ed. Philosophy of Science: The Central Issues, (New York: Norton, 1998), 302-319.
- Gilmore, Richard. 2006. Existence, Reality, and God in Peirce's Metaphysics: The Exquisite Aesthetics of the Real. The Journal of Speculative Philosophy, New Series, Vol. 20, No. 4, pp. 308-319
- Giorgi, Alessandra. 2010. About the Speaker: Towards a Syntax of Indexicality. Oxford Studies in Theoretical Linguistics, Oxford University Press, Oxford.
- Givon, Tom. 2020. Coherence. John Benjamins, Philadelphia, PA.
- Goldberg, Adele. 1995. Constructions: A Construction Grammar Approach to Argument Structure. University of Chicago Press. Chicago.
- Gordon, Matthew. 2005. A Perceptually-Driven Account of Onset-Sensitive Stress. *Natural Language and Linguistic Theory*, pp595-653.
- Gordon, Peter. 2004. "Numerical cognition without words: Evidence from Amazonia." Science 306 (5695):49699.
- Gosselin, Mia. 1990. Nominalism and Contemporary Nominalism: Ontological and Epistemological Implications of the work of W.V.O. Quine and of N. Goodman. Springer, Netherlands.
- Graves, C., Katz, J. J., Nishiyama, Y., Soames, S., Stecker, R. and Tovey, P. [1973]: 'Tacit Knowledge', Journal of Philosophy, 70, pp. 318-30.
- Green, Judith M. (ed). 2014. Richard Bernstein and the Pragmatist Turn in Contemporary Philosophy: Rekindling Pragmatism's Fire. Palgrave-Macmillan, London, UK.
- Greenberg, Joseph. 1954. Concerning inferences from linguistic to nonlinguistic data. Language in culture. I: Harry Hoijer (editor), Language in Culture (University of Chicago Press, 1954.
- Grice, Paul. 1991. Studies in the Way of Words. Harvard University Press, Cambridge, MA.

- Griffin, Nicholas. 2018. "Brandom and the Brutes," Neuroscience and Its Philosophy, pp. 5521-5547.
- Grimes, Joseph E. 1975. The Thread of Discourse. Mouton, The Hague.
- Gvoždiak, Vit and Martin Švantner (eds). 2018. How to Make Our Signs Clear: C.S. Peirce and Semeiotics. Brill. Leiden.
- Håkansson, Gisela and Jennie Westander. 2013. Communication in Humans and Other Animals. John Benjamins Publishing Co. Amsterdam, Netherlands.
- Hall, Edward T. 1973 [1959]. The Silent Language. Anchor Books.
- Hall, Edward T. 1976. Beyond Culture. Anchor Books.
- Hall, Edward T. 1990. The Hidden Dimension. Anchor Books.
- Hallpike, C.R. 1979. The Foundation of Primitive Thought. Richard Clay (pub.), Suffolk, UK.
- Hampton, James A. and Yoad Winter. 2017. Compositionality and Concepts in Linguistics and Psychology. Springer Open, Cham, Switzerland.
- Harding, Sandra G., ed. 1976. Can Theories be Refuted?: Essays on the Duhem-Quine Thesis. Reidel Publishing Co. New York.
- Harman, Gilbert. 1973. Thought. Princeton University Press. Princeton, NJ.
- Harris, Zellig. 1951. Methods in Structural Linguistics. University of Chicago Press, Chicago.
- Hartshorn, Charles and Paul Weiss, eds. 1932. *Collected Papers of Charles Sanders Peirce*, Harvard University Press, Cambridge, MA.
- Heinrichs, Arlo. 1964. Os fonemas de Mura-Pirahã. Boletim do Museu Paraense Emílio Goeldi 21.
- Hengeveld, Kees and J. Lachlan MacKenzie. 2008. Functional Discourse Grammar: A
 - Typologically-Based Theory of Language Structure. Oxford University Press, Oxford.
- Higginbotham, James. 1985. 'On semantics', Linguistic Inquiry 16:4, 547-594.
- Hilpinen, Risto. 2015. "Conception, Sense, and Reference in Peircean Semiotics," Synthese, 192, 4. pp. 991-1018.
- Hilpinen, Risto. 1982. On C. S. Peirce's Theory of the Proposition: Peirce as a Precursor of Game-Theoretical Semantics. *The Monist*, Volume 65, Issue 2, 1 April 1982, Pages 182–188, https://doi.org/10.5840/monist198265213
- Hochberg, Herbert. 2011. "Nominalism and Idealism," Axiomathes. doi 10.1007/s10516-011-9150-3
- Hocket, CharlesF. 1968. The State of the Art. Mouton, The Hague, Netherlands...
- Hollebrandse, Bart. 2018. "Indirect Recursion: The Importance of Second-Order Embedding and Its Implications for Cross-Linguistic Research." In Amaral, et. al. 35-47
- Hookway, Christopher. 1985. Peirce. Routledge & Kegan Paul. London.
- Hopper, Paul. and Sandra Thompson. 1980. Transitivity in Grammar and Discourse. Lg. 56,2, pp251-299.
- Hornstein, Norbert. 1990. As time goes by: tense and universal grammar, MIT Press, Cambridge, MA.
- Houser, Nathan and Christian Kloesel. 1992. The Essential Peirce, Volume 1. Indiana University Press, Bloomington, IN.
- Houser, Nathan and Christian Kloesel. 1998. The Essential Peirce, Volume 2. Indiana University Press, Bloomington, IN.
- Howard SR, Avarguès-Weber A, Garcia JE, Greentree AD, Dyer AG. 2019. Symbolic representation of numerosity by honeybees (Apis mellifera): matching characters to small quantities. Proc. R. Soc. B 286:20190238. http://dx.doi.org/10.1098/rspb.2019.0238
- Hull, Kathleen A. and Richard Kenneth Atkins, eds. 2017. Peirce on Perception and Reasoning: From Icons to Logic. Routledge Studies in American Philosophy, Routledge, New York, NY.

- Hulswit, Menno. 1997. "Peirce's Teleological Approach to Natural Classes," Transactions of the Charles S. Peirce Society, 33, 3. pp 722-772.
- Hymes, Dell. 1974. **Foundations in Sociolinguistics: An Ethnographic Approach**, University of Pennsylvania Press.
- Hymes, Dell and John Fought. 1975. American Structuralism. Mouton, New York.
- Ingstad, Helge and Anne Stine Ingstad. 2000. The Viking Discovery of America: The Excavation of a Norse Settlement in L'Anse Aux Meadows, Newfoundland. Breakwater Books. Connecticut.
- Ivanova, A. A., Mineroff, Z., Zimmerer, V., Kanwisher, N., Varley, R., & Fedorenko, E. (2021). The language network is recruited but not required for nonverbal event semantics. Neurobiology of Language, 2(2), 176–201. https://doi.org/10.1162/nol_a_00030
- Jacobson, Pauline. 2014. Compositional Semantics: An Introduction to the Syntax/Semantics Interface. Oxford Textbooks in Linguistics. Oxford University Press, Oxford.
- Jakobson, Roman. 1990. 'The Speech Event and Functions of Language', In: Linda R. Waugh and Monique Monville-Burston, eds., On Language, Roman Jakobson, Harvard University Press, Cambridge MA, pp.69-79.
- Jakobson, Roman. 1977. A Few Remarks on Peirce, Pathfinder in the Science of Language. MLN, Vol. 92, No. 5, Comparative Literature (Dec 1977),pp. 1026-1032. The Johns Hopkins University Press.
- James, William. 2020. The letters of William James (Volume I), Alpha Editions.
- James, William. 1992 [1896]. 'The Will to Believe', In: William James: Writings 1878-1899, The Library of America, pp457-479.
- James, William. 1987 [1909]. 'The meaning of truth', In: William James: Writings 1902-1910, The Library of America pp821-978.
- James, William. 1975. Pragmatism. Franklin Pierce University Press.
- Janssen, Theo M.V. 1997. "Compositionality," In: J. Van Benthem and Alice Ter Meulen, eds. Handbook of Logic and Language, MIT Press, Cambridge, MA.
- Jaszczolt, K.M. ed. 2023. Understanding Human Time. Oxford University Press.
- Jaszczolt, K.M. 2016. Meaning in Linguistic Interaction: Semantics, Metasemantics, Philosophy of Language. Oxford University Press. Oxford.
- Jaszczolt, K.M. 2012. 'Cross-linguistic differences in expressing time and universal principles of utterance interpretation'. In: L. Filipović & K. M. Jaszczolt (eds). *Space and Time in Languages and Cultures: Linguistic Diversity*. Amsterdam: J. Benjamins. 95-121.
- Jaszczolt, K.M. 2009. Representing Time: An Essay on Temporality as Modality. Oxford University Press, Oxford.
- Jaszczolt, K.M. 2005. Default Semantics: Foundations of a Compositional Theory of Acts of Communication. Oxford University Press. Oxford.
- Joseph, John E. 2012. Saussure. Oxford University Press, Oxford, UK.
- Kamp, Hans. 2019. "Tense and Aspect in Discourse Representation Theory," In: Robert Truswell (ed.), *The Oxford Handbook of Event Structure*, Oxford, UK.
- Kamp, Hans and Uwe Reyle. 1993. From Discourse to Logic: Introduction to Modeltheoretic Semantics of Natural Language, Formal Logic, and Discourse Representation Theory. Springer, Boston.
- Karlsson, F. (2009). Recursion and iteration. In H. van der Hulst (Ed.), Recursion and Human Language (pp.43–68). Berlin: Mouton de Gruyter.
- Kay, Paul, Brent Berlin, Luisa Maffi, William R. Merrifield, and Richard Cook. 2012. World Color Survey. CSLI Stanford, CA.

- Kecskemete, Paul. 1952.Meaning, Communication, and Value. University of Chicago Press, Chicago, IL.
- Kelly, L.G. 2002. The Mirror of Grammar: Theology, Philosophy, and the *Modistae*, John Benjamins Publishers, The Hague, Netherlands.
- Kennison, Shelia and Rachel Messer. 2012. "The Beginning of Knowing: Review of S. Carey's The Origin of Concepts. PsycCRITIQUES, 55 (https://www.researchgate.net/publication/232521204_The_beginning_of_knowing_Review_of_S_Carey%27s_The_origin_of_concepts).
- Kohn, Eduardo. 2013. How Forests Think: Toward an Anthropology Beyond the Human. University of California Press, Berkeley, CA.
- Kornai, András. 2010. "The treatment of ordinary quantification in English proper." Hungarian Review of Philosophy. vol. 54/4 150-162 https://kornai.com/Papers/tog.pdf
- Korta, Kepa and John Perry. 2011. Critical Pragmatics: An Inquiry Into Reference and Communication, Cambridge University Press, Cambridge, UK.
- Kortylewski, A J He, Q Liu, C Cosgrove, C Yang, and AL Yuille. 2021. "Compositional Generative Networks and Robustness to Perceptible Image Changes," 55th Annual Conference on Information Sciences and Systems (CISS), pp1-8
- Kuklick, Bruce. 2002. A History of Philosophy in America 1720-2000. Oxford University Press, Oxford, UK.
- Kuklick, Bruce. 1977. The Rise of American Philosophy: Cambridge, Massachusetts, 1860-1930. Yale University Press, New Haven.
- Kumar, Vinod. 2017. The Astadhyayi of Panini A Treatise on Sanskrit Grammar, Parimal Publication. Delhi.
- Ladefoged, Peter and Daniel L. Everett. 1996. The Status of Phonetic Rarities. **Language 72:3**, September 1996, pp794-800.
- Laland, Kevin N. and Bennett G. Galef. 2009. The Question of Animal Culture. Harvard University Press, Cambridge, MA.
- Landesman, Charles. 1961. Does Language Embody a Philosophical Point of View? The Review of Metaphysics, Jun., 1961, Vol. 14, No. 4, pp. 617-636
- Langsdorf, Lenore and Andrew R. Smith. 1995. Recovering Pragmatism's Voice: The Classical Tradition, Rorty, and the Philosophy of Communication. SUNY, Albany, NY.
- Larson, Richard. 2017. On Shell Structure. Routledge, London.
- Larson, Richard and Gabriel Segal. 1995. Knowledge of Meaning: Introduction to Semantic Theory. MIT Press. Cambridge, MA.
- Lasnik, Howard, Juan Uriagereka and Cedrik Boeckx. 2005. A Course in Minimalist Syntax: Foundations and Prospects, Wiley, New York.
- Lawler, John Michael. 1973. Studies in English Generics, unpublished PhD thesis, University of Michigan.
- Leder, Harry. 1991. *Tense and temporal order*, unpublished Ph.D. dissertation, Depart- ment of Linguistics, Massachusetts Institute of Technology, Cambridge, MA.
- Legg, Catherine. 2008. "Making it Explicit and Clear: From 'Strong' to Hyper-' Inferentialism in Brandom and Peirce. Metaphilosophy, Vol. 39, 1. pp. 105-123.
- Le Guen, Olivier and Lorena Ildefonsa Pool Balam. 2012. "No Metaphorical Timeline in Gesture and Cognition Among Yucatec Mayans," *Frontiers in Psychology*.
- Lehrer, Keith. 1991. Thomas Reid. Routledge, London.
- Lepore, Ernie and Matthew Stone. 2016. Imagination and Convention: Distinguishing Grammar and Inference in Language. Oxford University Press, Oxford, UK.

- Leslie, Sarah-Jane. 2015. "Generics Oversimplified," NOUS 49:1, pp28–54. doi: 10.1111/nous.12039
- Leslie, S. (2013b). The original sin of cognition: fear, prejudice and generalization. Journal of Philosophy.
- Leslie, S. (2013a). Generics oversimplified. Nous.
- Leslie, S. (2008). Generics: cognition and acquisition. Philosophical Review, 117(1), 1-47.
- Leslie, S. (2007b). Generics, cognition and comprehension. Princeton: Doctoral Dissertation, Department of Philosophy, Princeton University.
- Leslie, S. (2007a). Generics and the structure of the mind. Philosophical Perspectives, 21 (1), 375-403
- Leslie, Sarah-Jane and Adam Lerner. 2016. Generic Generalizations. Stanford Encyclopedia of Philosophy.
- Lévy-Bruhl, Lucien. 1923. Primitive Mentality. The Macmillan Co., New York.
- Levi-Strauss, Claude. 2021. Wild Thought (La Pensee Sauvage). University of Chicago Press, Chicago, IL. (translated by Jeffrey Mehlman and John Leavitt)
- Levin, Michael. 1983. Explanation and Prediction in Grammar (and Semantics). In: Peter A. French, Theodore E. Uehling Jr., Howard Wettstein, eds. 1983. Contemporary Perspectives in the Philosophy of Language. University of Minnesota Press. pp.179-188.
- Liebesman, David. 2011. "Simple Generics." NOÛS, 45:3, pp 409-442.
- Liebesman, David and Ofra Magidor. 2017. Copredication and Property Inheritance. Philosophical Issues: A Supplement to *Nous*, pp.131-166.
- Lima, Tânia Stolze. (1995), A Parte do Cauim. Etnografia Juruna. Rio de Janeiro, doctoral thesis, PPGAS/Museu Nacional/UFRJ.
- Lima, Tânia Stolze. 1996. "O Dois e seu Múltiplo: Reflexões sobre o Perspectivismo em uma Cosmologia Tupi". Mana, 2(2): 21-47.
- Longacre, Robert E. 1996. The Grammar of Discourse. Springer, New York.
- Longacre, Robert E. 1976. An Anatomy of Speech Notions. Peter de Ridder Publications in Tagmemics.
- Loukotka, Čestmír. 1968. Classification of South American Indian languages. Latin American Center, UCLA. Los Angeles.
- MacKinnon, Barbara. 1985. American Philosophy: A Historical Anthology. SUNY Press, Albany, NY.
- Maffie, James. 2014. Aztec Philosophy: Understanding a World in Motion. University of Colorado Press, Boulder.
- Maier, Ernst. 2021. Reporting With Clausal Embedding and Without: Another Look at the Pirahã Controversy. https://ling.auf.net/lingbuzz/006292
- Mann, Charles C. 2011. 1493: Uncovering the New World Columbus Created. Knopf, New York.
- Mann, Charles C. 2005. 1491: New Revelations of the Americas Before Columbus. Knopf, New York.
- Maran, Timo, Dario Martinelli, and Aleksei Turovski (eds.). 2011. Readings in Zoosemiotics, De Gruyter, Berlin, Germany.
- Matsui, Takaaki. 2020. "Inferentialiams and Semantic Externalism: A Neglected Debate Between Sellars and Putnam," British Journal for the History of Philosophy, online, https://doi.org/10.1080/09608788.2020.1801380.
- Matthews, Peter. 2001. A Short History of Structural Linguistics. Cambridge University Press, Cambridge, UK.
- May, Henry F. 1976. The Enlightenment in America. Oxford University Press, Oxford, UK.
- McGregor, William B. 1997. Semiotic Grammar. Oxford University Press, Oxford, UK.

- Misak, Cheryl. 2013. The American Pragmatists. Oxford University Press, Oxford, UK.
- Moltmann, Friederike. 2022. "Natural Language Ontology." Stanford Encyclopedia of Philosophy. https://plato.stanford.edu/entries/natural-language-ontology/
- Montague, Richard. 1974. "The proper treatment of quantification in ordinary English", In: Richmond Thomason (ed.) Formal philosophy: selected papers of Richard Montague, Yale University Press, New Haven, CT.
- Moore, Matthew E. ed. 2010. New Essays on Peirce's Mathematical Philosophy. Open Court, Chicago.
- Morris, Charles W. 1971. Writings on the General Theory of Signs. Mouton, The Hague.
- Murphy, Elliot. 2015. Labels, cognomes, and cyclic computation: an ethological perspective. Front. Psychol., 03 June 2015 | https://doi.org/10.3389/fpsyg.2015.00715
- Nimuendajú, Curt. 1948. "The Mura and Pirahã," In: Julian H. Steward, ed., Handbook of South American Indians, vol. 3, The Tropical Forest Tribes, United States Government Printing Office, Washington, D.C.
- Nöth, Winfried. 2000. Charles Sanders Peirce, Pathfinder in Linguistics. *The Commens Encyclopedia: The Digital Encyclopedia of Peirce Studies* (2000)
- Pap, Arthur. "Nominalism, Empiricism, and Universals -- I," The Philosophical Quarterly 1959, 9:37, pp330-340.
- Papafragou, Anna, Peggy Li, Youngon Choi, Chung-Hye Han. 2007. Evidentiality in Language and Cognition, Journal of Cognition, 103 (2): 253-299.
- Partee, Barbara H. 1995. "Quantificational Structures and Compositionality," In: Emmon Bach, Eloise Jelinek, Angela Kratzer, and Barbara H. Partee, eds., *Quantification in Natural Languages*, Kluwer Academic Publishers, Dordrecht, pp541-601.
- Paterson, Don. 2018. The Poem: Lyric, Sign, Metre. Princeton University Press. Princeton, NJ.
- Peirce, Charles Sanders (1909). "Manuscript 514." Transcribed by Michel Balat with commentary by J. F. Sowa. http://www.jfsowa.com/peirce/ms514.htm (accessed 15 November 2009).
- Peirce, Charles Sanders. 1903. A Syllabus of Certain Topics of Logic, Alfred Mudge & Son, Boston.
- Peirce, Charles Sanders (1903). "Harvard Lectures on Pragmatism, Lecture VII." (In: Hartshorne and Weiss 1932.
- Peirce, Charles Sanders. 1897. The Logic of Relatives. The Monist, Vol. 7, No. 2, pp. 161-217
- Peirce, Charles Sanders (1909). "Manuscript 514." Transcribed by Michel Balat with commentary by J. F. Sowa. http://www.jfsowa.com/peirce/ms514.htm (accessed 15 November 2009).
- Peirce, Charles Sanders. 1898. How to Make Our Ideas Clear. Popular Science Monthly 12 (January 1878), 286-302.
- Peirce, Charles Sanders. 1877. "The Fixation of Belief," *Popular Science Monthly* 12 (November 1877), 1-15.
- Peirce, Charles S. 1865. Harvard Lecture 1, (MS 94) (Writings of Charles S. Peirce 1, 162-175)
- Peirce, Charles S. 1868. "Questions Concerning Certain Faculties Claimed for Man," *Journal of Speculative Philosophy* 2, pp. 103-114.
- Pelletier, Francis Jeffry. 2009. "Are All Generics Created Equal," In: Jeffry Francis Pelletier, ed., Kinds, Things, and Stuff: Mass Terms and Generics, Oxford University Press.
- Pelletier, Francis Jeffry. 1994. "The Principle of Semantic Compositionality," *Topoi*, 13:11-24.
- Peregrin, Jaroslav. 2024. Normative Species: How Naturalized Inferentialism Explains Us. Routledge Studies in Contemporary Philosophy. Routledge, London.
- Peregrin, Jaroslav. 2014. Inferentialism: Why Rules Matter. Palgrave-Macmillan. London.
- Perkins, Revere D. 1992. Deixis, Grammar, and Culture. John Benjamins Publishing, Amsterdam.

- Perniss, Pamela, Robin L. Thompson, and Gabriella Vigliocco. 2010. Iconicity as a general property of language: evidence from spoken and signed languages. Frontiers in Psychology. https://www.frontiersin.org/articles/10.3389/fpsyg.2010.00227/full
- Pesetsky, David. 2000. Phrasal Movement and Its Kin. MIT Press, Cambridge, MA.
- Pietarinen, Ahti. 2005b. Compositionality, Relevance, and Peirce's Logic of Existential Graphs. Axiomathes. December 2005 DOI: 10.1007/s10516-004-7683-4
- Pietarinen, Ahti. 2005a. "The Compositionality of Concepts and Peirce's Pragmatic Logic," In: E. Machery, M. Werning and G. Schurtz, eds., *The Compositionality of Concepts and Meanings: Foundational Issues.* Ontos
- Pike, Kenneth L. 1967. Language in relation to a unified theory of the structure of human behavior. Janua Linguarum, series maior, 24. The Hague: Mouton. 762 pp. [second rev. ed.]
- Pike, Kenneth L. and Evelyn G. Pike. 1976. Grammatical Analysis. SIL International. Dallas, Tx.
- Pinkham, Gordon N. 1967. "Some Comments on Cheng, Peirce, and Inductive Validity," Transactions of the Charles S. Peirce Society, Vol 3, 2. pp. 96-107.
- Polanyi, Michael. [2009 (1966)]. The Tacit Dimension, University of Chicago Press, Chicago.
- Polanyi, Michael. 1974. *Personal Knowledge: Towards a Post-Critical Philosophy*, University of Chicago Press, Chicago.
- Polanyi, Michael and Harry Prosch. 1975. Meaning. University of Chicago Press, Chicago, IL.
- Popper, Karl R. 1994. The Myth of the Framework: In Defence of Science and Rationality. Routledge, London.
- Pratt, Scott L. 2002. Native Pragmatism: Rethinking the Roots of American Philosophy. Indiana University Press. Bloomington, IN.
- Prior, A.N. 1960. "The Runabout Inference-Ticket," Analysis vol. 21, n 2. pp. 38-39.
- Prosser, Simon. 2016. Experiencing Time. Oxford University Press, Oxford.
- Pullum, Geoffrey K. 2024. Daniel Everett on Pirahã Syntax. In: Edward A.F. Gibson (ed.), 2024, From Fieldwork to Linguistic Theory: A Tribute to Dan Everett, Language Sciences Press.
- Pullum, Geoffrey K. 2020. "Theorizing About the Syntax of Human Language: A Radical Alternative to Generative Formalisms," *Cadernos de Lingüística*, Abralin. Doi: 10.25189/2675-4916.2020.V1.N1.ID279.
- Purzycki, Benjamin Grant and Richard Sosi. 2019. Religion Evolving: Cultural, Cognitive, and Ecological Dynamics. Equinox Online (https://www.equinoxpub.com/home/religionevolving/).
- Pustejovsky, James (1995). The Generative Lexicon. Cambridge, MA: The MIT Press.
- Putnam, Hilary. 1987. The Many Faces of Realism. Open Court. Chicago, IL.
- Putnam, Hilary. 1982. Peirce the Logician. Historia Mathematica 9, pp290-301.
- Pylkkänen, Liina, Bridget Oliveri, and Andrew J. Smart. 2009. "Semantics vs. World Knowledge in Prefrontal Cortex," Language and Cognitive Processes, pp1-22.
- Quine, W.V.O. 1960. Word and Object. MIT Press, Cambridge, MA.
- Quine, W. V. O. 1951. Two Dogmas of Empiricism. The Philosophical Review. 60 (1): 20–43.
- Radin, Paul. 2017 [1927]. Primitive Man as Philosopher. New York Review of Books Publishing, New York, NY.
- Raviv, Limor, Antje Meyer, and Shiri Lev-Ari. 2017. "Compositional Structure Can Emerge Without Generational Transmission," Cognition, vol. 182, pp. 151-164.
- Rawski, Jonathan. 2021. Structure and Learning in Natural Language, unpublished PhD. dissertation, Stony Brook University.
- Reichenbach, Hans. 1956. The Direction of Time. University of California Press, Berkeley, CA.
- Reichenbach, Hans. 1947. Symbolic logic, Macmillan, New York, NY.

- Reid, Thomas. 1997. An Inquiry into the HUman Mind on the Principles of Common Sense. (ed. Brookes, Derek R). Pennsylvania University Press, University Park, PA.
- Ricci, Magda Maria de Oliveira. 2007. "Cabanagem, cidadania e identidade revolucionária: o problema do patriotismo na Amazônia entre 1835 e 1840." Tempo, Niterói, v. 11, n. 22, p. 5-30, 2007. Disponível em: http://repositorio.ufpa.br/jspui/handle/2011/10370.
- Rodríguez, Lydia. 2019. "Time is *not* a Line. Temporal Gestures in Chol Mayan," *Journal of Pragmatics*, pp1-17.
- Rodríguez, Lydia. 2014. *Time in Language, Gesture, and Thought: A Case Study in Chol Mayan.* unpublished PhD dissertation, University of Virginia.
- Rodriguez-Pereyra, G., 2011, 'Nominalism in metaphysics', in Zalta, E.N. (Ed.), *Stanford Encyclopedia of Philosophy* (Fall 2011 Edition), first published 11 February 2008; substantive revision 20 July 2011, substantive revision 1 April 2015 (quoted sections unchanged), avalaible at http://plato.stanford.edu/entries/nominalism-metaphysics/.
- Rolls, Edmund T. 2016. Cerebral Cortex: Principles of Operation. Oxford University Press, Oxford.
- Rosier, Irène. 1983. La Grammaire Speculative des Modistes. Presses Universitaires de Lille, France.
- Rouse, Irving. 1993. The Tainos: Rise and Decline of the People Who Greeted Columbus. Yale University Press, New Haven, CT.
- Russell, Benjamin. 2012. Probabilistic Reasoning and the Computation of Scalar Implicatures, unpublished PhD dissertation, Brown University.
- Sahlins, Marshall. 2017 [1972]. Stone Age Economics. Routledge, London, UK.
- Sakel, Jeanette. 2012. Acquiring Complexity: The Portuguese of Some Pirahã Men. Linguistic Discovery. January 2012 DOI: 10.1349/PS1.1537-0852.A.409
- Sakel, Jeanette and Daniel Everett. 2011. Linguistic Field Work: A Student Guide, Cambridge University Press Red Series in Introductory Textbooks in Linguistics
- Sakel, Jeanette and Eugenie Stapert. 2010. Pirahã in need of recursive syntax? In: Harry Van Der Hulst, ed. Recursion and Human Language. Mouton De Gruyter. Berlin.
- Eugénie Stapert. 2007. Linguistic theory and fieldwork in interaction: the case of Pirahã. In Peter K. Austin and Oliver Bond and David Nathan (eds.), Proceedings of Conference on Language Documentation and Linguistic Theory, 235-242. London: SOAS.
- Salles, Raiane. 2023. Pirahã. In: Patience Epps and Lev Michael (eds.) Amazonian Languages, Volume 2 Language Isolates II: Kanoé to Yurakaré: An International Handbook. Berlin, Boston: De Gruyter Mouton, pp957-995. https://doi.org/10.1515/9783110432732
- Sampson, Geoffrey, David Gil, and Peter Trudgill (eds.). Language Complexity as an Evolving Variable, Oxford University Press.
- Samuels Bridget D,. Marc Hauser, and Cedric Boeckx. 2016. Looking for UG in Animals: A Case Study in Phonology. In: Ian Roberts, ed., 2016. The Oxford Handbook of Universal Grammar. Oxford University Press. New York.
- Sândalo, Filomena and Maria B. Abaurre. 2010. Orality spreading in Pirahã. Línguas Indígenas Americanas (LIAMES) 10. 7–19.
- Sapir, Edward. 1985 [1915]. 'Abnormal Types of Speech in Nootka', In: David G. Mandelbaum, ed., **Edward Sapir: Selected Writings in Language, Culture, and Personality**, The University of California Press, Berkeley, pp.179-196.
- Sapir, Edward. 1964. 'Culture, Genuine and Spurious', in Culture, Language, and Personality: Selected Essays, David G. Mandelbaum (ed.), University of California Press. Berkeley. pp. 78-119.
- Sapir, Edward. 1949. 'The status of linguistics as a science.' In David G. Mandelbaum, Selected Writings of Edward Sapir, The University of California Press, Berkeley, p166.
- Sapir, Edward. 1931. 'Conceptual categories in primitive languages,' Science, 74:578.

- Sapir, Edward. 1929. 'The Status of Linguistics as a Science.' Language Vol.5 No 4 (December), pp2017-214.
- Sapir, Edward. 1921. Language: An Introduction to the Study of Speech. Harvest Books, New York, NY.
- Sauerland, Uli. 2018. False speech reports in Pirahã: A comprehension experiment. In Luiz Amaral, Marcus Maia, Andrew Nevins & Tom Roeper (eds.), Recursion across domains, 21–34. Cambridge: Cambridge University Press.
- Sauerland, Uli. 2010. Experimental evidence for complex syntax in Pirah.. Tromso: Universit.tsbibliothek Johann Christian Senckenberg. Lingbuzz: lingbuzz/001095. (29 April 2019.)
- Saussure, Ferdinand de. 1959. Course in general linguistics. Eds. Charles Bally & Albert Sechehaye. Trans. Wade Baskin. NY: The Philosophical Society.
- Scaglione, Luisa Delamonica. 2019. Índios na Cabanagem: participações e identidades (1835). Unpublished ms. UNIFESP. https://repositorio.unifesp.br/handle/11600/51803
- Scheffler, Israel. 1974. Four Pragmatists: A Critical Introduction to Peirce, James, Mead, and Dewey. Schindler, Samuel, Anna Droždžowicz, and Karen Brøker, eds. 2020. Linguistic Intuitions. Oxford University Press, New York.
- Schneider, Herbert W. 1963. A History of American Philosophy (2nd edition). Columbia University Press.
- Schneider, Susan. 2009. "The Nature of Symbols in The Language of Thought," Mind & Language 24, 5. pp. 523-553,.
- Schwitzgebel, E. 2010. Introspection. Stanford Encyclopedia of Philosophy.Robert A. Segal. 2007. "Jung and Lévy-Bruhl." Journal of Analytical Psychology, 2007, 52, 635–658 Aberdeen, Scotland
- Scopel, Daniel. 2007. Uma Etnografia Sobre a Pluralidade de Modelo de Atencao A Saude Entire os Indios Munduruku na Terra Indigena Kwata Laranjal, Borba, Amazonas: Practicas de Autoatencao, Xamanismo e Biomedicina. Unpublished PhD dissertation, Universidade Federal de Santa Catarina.
- Searle, John. 1980. Minds, Brains, and Programs. Behavioral and Brain Sciences, 3 (3):417-57.
- Segal, Robert A. 1007. Jung and Lévy-Bruhl, Analytical Psychology. <u>Volume52, Issue5</u> November 2007, Pages 635-658.
- Sellars, Wilfred. 1963. Science, Perception and Reality. Routledge and Kegan Paul, London, UK.
- Seneca. 1969. Letters from a Stoic (Penguin Classics). Penguin Classics, New York.
- Seuren, Pieter A.M. 1996. Semantic Syntax. Blackwell Publishers, Cambridge, MA.
- Shapiro, Michael. 1983. The Sense of Grammar: Language as Semeiotic. Indiana University Press, Bloomington, IN.
- Shaumyan, Sebastian. 1987. A Semiotic Theory of Language. Indiana University Press, Bloomington, IN.
- Shea, Nicholas. 2011. "New Concepts Can be Learned: Review of the Origin of Concepts, Susan Carey," Biology and Philosophy, 26 (1):129 139 (2011)doi:10.1007/s10539-009-9187-5
- Short, T.L. 2007. Peirce's Theory of Signs. Cambridge University Press, Cambridge, UK.
- Sicoli, Mark A. 2020. Saying and Doing in Zapotec: Multimodality, Resonance, and the Language of Joint Actions. Bloomsbury, London, UK.
- Silva, Glauber R. 2014. A feature geometric analysis of Pirah. phonology and tonology (Mura). Revista Linguística 10(2). 1–20.
- Silverstein, 2003 Indexical order and the dialectics of sociolinguistic life. <u>Language & Communication</u>. <u>Volume 23, Issues 3–4</u>, July–October 2003, Pages 193-229

- Simard, Suzanne. 2021. Finding the Mother Tree: Discovering the Wisdom of the Forest. Knopf. New York.
- Slobodchikoff, C.N., Bianca S. Perla, and Jennifer L. Verdolin. 2009. Prairie Dogs: Communication and Community in an Animal Society. Harvard University Press, Cambridge, MA.
- Sowa, John. 2013. From Existential Graphs to Conceptual Graphs. International Journal of Conceptual Structures and Smart Applications, 1:1.
- Spelke, Elizabeth S. and Katherine D. Kinzler. 2007. "Core Knowledge," Developmental Science vol. 10, 1. pp. 89-96.
- Steedman, Mark. 1997. "Temporality," In: J. Van Benthem and Alice Ter Meulen, eds. *Handbook of Logic and Language*, MIT Press, Cambridge, MA.
- Steeves, Paulette F.C. 2021. Indigenous Paleolithic of the Western Hemisphere. University of Nebraska Press.
- Sterken, Rachel Katherine. 2015. Leslie on generics. Philosophical Studies: An International Journal for Philosophy in the Analytic Tradition, Vol. 172, No. 9, pp. 2493-2512.
- Stjernfelt, Frederik. 2014. Natural Propositions: The Actuality of Peirce's Doctrine of Dicisigns. Docent Press, Boston, MA.
- Stjernfelt, Frederik. 2007. Diagrammatology: An Investigation on the Borderlines of Phenomenology, Ontology, and Semiotics. Springer, New York, NY.
- Strawson, P.F. 1974. Subject and Predicate in Logic and Grammar. Routledge, London, UK.
- Sugimoto, Tomoki and Hitomi Yanaka. 2022. "Compositional Semantics and Inference System for Temporal Order Based on Japanese CCG," arXiv:2204.09245v1.
- Szabó, Zoltán Gendler. 2000. Problems of Compositionality. Routledge. New York.
- Tavárez. David. 2022. Rethinking Zapotec Time: Cosmology, Ritual, and Resistance in Colonial Mexico. University of Texas Press, Austin, TX.
- Teichman, Matt. 2015. Characterizing Kinds: A Semantics for Generic Sentences. Unpublished PhD dissertation, University of Chicago.
- Thayer, James Bradley. 1877 (facsimile). Letters of Chauncey Wright: With Some Account of His Life. Forgotten Books. London.
- Thomason, Sarah Grey and Daniel L. Everett. 2023 "Transitivity in S'eli's-Ql'isp'e" In: From Linguistic Fieldwork to Linguistic Theory: Festschrift in Honor of Daniel L. Everett." Language Science Press.
- Thomason, Sarah and Everett, Daniel. 1993. Transitivity in Flathead. In Seaburg, William (ed.), Papers for the 28th International Conference on Salish and Neighboring Languages, August 19-21, 1993, 317-343. Seattle: University of Washington.
- Thomason, Richmond H., Matthew Stone, and David DeVault. 2006. "Enlightened Update: A Computational Architecture for Presupposition and Other Pragmatic Phenomena." "Presented at Workshop on Presupposition Accommodation, The Ohio State University, 2006
- Thomason, Richmond H. 2004. "Non-Monotonic Formalisms for Natural Language Semantics," unpublished ms. University of Michigan.
- Tieu, Lyn, Philippe Schlenker, and Emmanuel Chemla. 2019. "Linguistic Inferences Without Words," PNAS, Vol. 116, 20. pp. 9796-9801.
- Tomalin, Marcus. 2006. Linguistics and the Formal Sciences: The Origins of Generative Grammar, Cambridge University Press. New York.
- Townsend, Simon W., Maria Rasmussen, Tim Clutton-Brock, and Marta B. Manser. 2012. Flexible alarm calling in meerkats: the role of the social environment and predation urgency. Behavioral Ecology. doi:10.1093/beheco/ars129. Advance Access publication 17 September 2012

- Ünal, E., & Papafragou, A. (2020). Relations between language and cognition: Evidentiality and sources of knowledge. *Topics in Cognitive Science*, 12(1), 115–135. https://doi.org/10.1111/tops.12355
- Van Inwagen, Peter and Meghan Sullivan. 2021. Metaphysics. Stanford Encyclopedia of Philosophy.
- Van Valin, Robert D. 2007. The Role and Reference Grammar Analysis of Three-Place Predicates, unpublished ms. SUNY Buffalo.
- Van Valin, Robert D. 2001. An Introduction to Syntax, Cambridge University Press, Cambridge, UK.
- Van Valin, Robert D. and Randy J. LaPolla. 1998. Syntax: Structure, Meaning, and Function. Cambridge University Press. New York.
- Vargas, Evelyn. 2017. "Perception as Inference," In: Hull and Atkins, eds.
- Viveiros de Castro, Eduardo. 2014. The Relative Native: Essays on Indigenous Conceptual Worlds. Hau Books. Chicago.
- Viveiros de Castro, Eduardo. 1998. "Cosmological Deixis and Amerindian Perspectivism." The Journal of the Royal Anthropological Institute, Sep. 1998, Vol. 4, No. 3, pp 469-488.
- Vogel, Alan. 2022. A Typology of Finite Subordinate Clauses in Jarawara Cadernos de Etnolinguistica(Série Monografias, 6)
- Vogel, Alan. 1990. Jarawara Verb Classes. unpublished PhD dissertation, University of Pittsburgh.
- Von Martius, Karl Friedrich Philipp. 1821 Beiträge Zur Ethnographie und Sprachenkunde Amerika's Zumal Brasiliens Vol. 2, Zur Sprachenkunde. (Sagwan Press, 2018 edition)
- Wainwright, William. 2020. "Jonathan Edwards." Stanford Encyclopedia of Philosophy.
- Waters, Anne, ed. 2017. American Indian Thought. Blackwell Publishing, Malden, MA.
- Werning, Markus, Wolfram Hinzen, and Edouard Machery, eds. 2012. The Oxford Handbook of Compositionality. Oxford University Press. Oxford.
- Wetzel, Linda. 2009. Types and Tokens: On Abstract Objects," MIT Press, Cambridge, MA.
- Whittaker, Gordon. 2021. Deciphering Aztec Hieroglyphs: A Guide to Nahuatl Writing. University of California Press, Berkeley, CA.
- Whorf, Benjamin L. 1956b. "A Linguistic Consideration of Thinking in Primitive Communities", In: John B. Carroll (ed.), Language, Thought, and Reality: Selected Writings of Benjamin Lee Whorf, pp. 134,159. MIT Press, Cambridge, MA.
- Whorf, Benjamin L. 1956a. "The relation of habitual thought and behavior to language', In: John B. Carroll (ed.) *Language, Thought, and Reality: Selected Writings of Benjamin Lee Whorf,* pp. 134-159. MIT Press, Cambridge, MA.
- Wiener, Norbert. (1949) Extrapolation, Interpolation, and Smoothing of Stationary Time Series: With Engineering Applications. MIT Press, Cambridge.
- Wierbizcka, Anna. 2005. Comments on Everett. Current Anthropology, 46:4, pp32-33.
- Williams, Donald Carey. 1931. "The Nature of Universals and Abstractions," The Monist, 41, 4, pp 583-593.
- Williamson, Timothy. 2009. "Reference, Inference, and the Semantics of Pejoratives," In The Philosophy of David Kaplan, Joseph Almog and Paulo Leonardi, eds., DOI:10.1093/acprof:oso/9780195367881.003.0009, pp. 137-158.
- Wilson, Aaron Bruce. 2017. "What Do We Perceive? How Peirce 'Expands Our Perception," In: Hull and Atkins, eds.
- Wisdom, John. 1964 [1953]. Philosophy and Psychoanalysis. Basil-Blackwell, Oxford, UK.
- White, Morton. 1972. Science and Sentiment in America: Philosophical Thought From Jonathan Edwards to John Dewey. Oxford University Press, Oxford, UK.
- Yang, Yuan and Steven T. Piantadosi. 2022. "One Model for Learning Language," PNAS, vol. 119, 5. 1-12.

Zaslavsky, Noga, Jennifer Hu, and Roger P. Levy. 2020. "A Rate-Distortion view of human pragmatic reasoning," arXiv:2005.06641v1 [cs.CL]
Zernik, Uri and Allen Brown. 1988. "Default Reasoning: Natural Language Processing." CoLing 22.

Werner, David. 1983. Where There is No Doctor. Hesperian Foundation, Berkeley.