

Chapter 3

A Speculation about what Linguistic Structures Might Be

Avery Andrews

A feature of generative linguistics that might seem rather strange to those in other areas of cognitive science is the ubiquitous ‘structures’; syntactic, phonological, semantic, etc., ascribed to utterances.¹ As far as I know, these tend to lack clear counterparts in for example many areas of psychology (but not all, such as the analysis of the visual system by Marr (1982)), while for linguists they appear to be part of the furniture of their childhood home, and there is relatively little discussion what they are really about.

In this note, I will propose a speculation to the effect that they can be regarded as a combination of two ideas. One, relatively old, is that they are abstract objects from which various properties of sentences can be easily computed, including, but not limited to, overt form, possible interpretation, and additional properties such as sociolinguistic register (e.g. Arka 2005b) or genre. The other, relatively new, is that they are equivalence classes of (often partial) proofs or calculations that a sentence has those properties. An important aspect of this partiality is that they can represent a shared portion of the calculation of different properties, such as literal meaning and register or genre, which would use the same path for a while, and then diverge.

The first view is based on musings that I think had as a graduate student and early career syntax teacher, whereas the second is from a more recent interest in proof theory, especially as used in glue semantics.

¹I would like to thank the two reviewers for very extensive and helpful comments.

3.1 Early Generative Practice

3.1.1 Phrase Structure

A simple example of both views at the same time is provided by phrase-structure (PS) trees, which emerged spontaneously from Chomsky's conception of a P-marker, perhaps because the closest thing to an intelligible representation of a P-marker is indeed a tree; the difference is discussed below. Some of the important characteristics of a PS tree are:

- (1) a. It determines a string via the 'yield' function that produces a list of its leaves, in order.
- b. A property of 'grammaticality' can be calculated easily by seeing what sequence of daughters each node has (not adequate to fully model acceptability in any given human language, but often a pretty good start)
- c. A tangible relationship to many aspects of semantic interpretation, for example via lexical entries for verbs assigning semantic roles to NPs in their vicinity, using the techniques of 'selection restrictions' in Chomsky (1965), and the later versions of Katz and Fodor's approach to semantics, such as Katz (1972) (however, for a full story, a more abstract level of representation is also needed).²
- d. Given a string and a PS grammar, the set of structures that have that string as yield can be enumerated, and if the grammar obeys some reasonable conditions, the list of structures will be finite.
- e. Further properties not conventionally identified as grammaticality can be determined, such as excessive left or center embedding (Karlson 2009, 2010) and others.

Trees emerge intuitively from depictions of the process whereby a phrase-structure grammar (PSG) defines a set of strings: starting with an 'initial symbol', typically 'S' for 'sentence', one would write an instance of S at the top of the diagram, and then one of sequences of phrase types specified by the PS rules as a possible expansion/sequence of daughters of S, and then similarly for the daughters, each connected to the mother by a line.

²What is exactly the status of 'selection restriction violations' has been controversial for a long time; in some versions of early generative grammar they were considered 'ungrammatical', although not necessarily to a high degree (Chomsky, 1964), but for some older arguments that they should be considered as grammatical, see Shanon (1976), and a more recent and extensive development pointed out by a reviewer, Magidor (2013).

I am not aware of any thoroughly developed account of why it was seen as such a good idea to draw pictures, but the practice was and is compelling, and there were various proposals for drawing sentence diagrams in circulation in the 1950s and before, perhaps going back to the Reed-Kellogg diagrams that used to be taught in secondary school. Interestingly, Chomsky himself did not formally advocate the use of trees, but rather a different idea, ‘P-markers’.

A P-marker was supposed to be a set of strings, representing all the ‘equivalent’ ways of deriving a sentence. Very few people paid much attention to this concept (even Chomsky himself frequently drew trees, with no explanation of the difference between these and P-markers, even calling a tree a P-marker in Chomsky (1965, 65)), with the interesting exception of Lasnik & Kupin (1977), but I recall (from a class lecture by Chomsky) that one of its features was supposed to be that it represented ‘is a’ facts about subsequences of utterances, without dragging in certain additional putatively irrelevant additional distinctions. For example, in a sentence such as *that Maurice loved bagels surprised Louise*, on the assumption that the subject clause was both an NP and an S, a standard tree would represent the S as under the NP, whereas a P-marker would not, merely recording the information that *that Maurice loved bagels* ‘is a’ NP and ‘is a’ S. So the tree overspecified certain aspects of the intuitions associated with the sentence, while the P-marker did not.

3.1.2 Transformational Grammar

In Transformational Grammar, phrase structure was of course only a prelude to and part of the full theory, which existed in a series of forms, the first two being the original ‘Syntactic Structures’ (SS, Chomsky 1957) model, in which multiple trees (of ‘kernel sentences’) were developed and combined into a surface/overt structure by transformations, and the later ‘Aspects of the Theory of Syntax’/Katz-Postal model (ATS/KP, Chomsky 1965, Katz & Postal 1964), in which a single deep structure tree determined the meaning, and was processed by the transformations into a surface structure. SS derivations met (or didn’t meet) characteristics (a-d) of (1) as follows:

- (2) a. The string is the PS yield of the final tree in the derivation.
- b. A structure is grammatical if the initial trees satisfy the PS rules, and the final tree is produced by applying the transformations to them obeying the ordering constraints.
- c. There wasn’t any explicit account of meaning.
- d. If an SS theory was fully formalized in some way, it would clearly be possible to recursively enumerate the structures that it assigned to

a given string, but practical parsing does not appear to have been a possibility.

With ATS/KP, things are similar but not quite the same:

- (3) a. The string is the PS yield of the final tree in the derivation.
- b. A structure is grammatical if the initial tree satisfies the PS rules, and the final tree is produced by applying the transformations to it obeying the ordering constraints, and any further constraints that might be imposed (such as ‘#’ erasure for relative clauses).
- c. Semantic interpretation was to be read off the initial (‘deep structure’) tree. (this was basically Katz and Postal, although Chomsky accepted it for a while, but then concluded (Chomsky, 1970) that semantic interpretation needed to look at both deep and surface structure).
- d. Considerable attention was devoted to assuring that the list of structures assigned to a string would be finite (‘recoverability of deletion’), and there were substantial efforts to produce parsers with a ‘covering grammar’ hand-produced by graduate students (e.g. Plath 1973). Later developments included the ‘Structure Preserving Constraint’ Emonds (1970,1976), which improved the prospects for parsing.

The most important aspect of the transition from SS to AST/KP was the addition of the goal of providing an account of semantic interpretation in generative grammar. Both versions supported a version of (1e) in the form of the ‘Derivational Theory of Complexity’, the idea that other things being equal, a sentence with a longer derivation should show signs of being more difficult to process than a shorter one. Actual arguments about this appear to have run into numerous difficulties, which I won’t try to review here.

There was as far as I know never much discussion of the role of sentence structures in early TG, but it is clear that further kinds of properties such as those mentioned in (1e) can also be read off a transformational derivation, which we can think of as aspects of ‘meaning in a wider sense’, not worrying about how to distinguish semantics from pragmatics and further niceties. Discourse properties such as topic and focus, etc, have been fully mainstream for quite some time now, often encoded in discourse Projections such as TopP and FocP, and while there has not been so much discussion of register and genre, it is clear that these and similar properties can be signalled by syntactic structure as well as by lexical and morphological choice. For example, the archaic/elevated/poetic register of constructions such as:

- (4) a. Ask not what your country can do for you.

b. How green the fields, how blue the sky.

In (a), the archaic feature is putting the negative after the main verb, without supporting *do*; in (b), putting the predicate adjective phrase in initial position, followed by the subject, with no copula. Neither of these constructions can be used today in serious new compositions.³ There appears to be no limit in principle to the types of properties that might be read off a syntactic structure.

3.1.3 Later Developments

Transformational Grammar in its earlier forms could be regarded as being somewhat schizophrenic in its treatment of structures, with the rather compact tree representation of the initial PS derivation and derived structures contrasting with the more diffuse and highly redundant transformational derivation. It is therefore perhaps not a surprise that later versions of TG tended to involve ideas such as the Structure Preserving Constraint and conventions for connecting deletion or movement sites to their controllers with lines, leading to widespread use of more compact representations, but without the emergence of a clear theoretical consensus that the results were truly correct (Hunter, 2019).

The ‘Alternative Generative Theories’ on the other hand, such as LFG, HPSG, and certain forms of Cognitive or Construction Grammar,⁴ tended to prefer more compact formats with greater similarity to trees than to derivations. It is perhaps interesting to note that the extensive use of the $\uparrow = \downarrow$ causes LFG to have considerably more compact linguistic structures than HPSG or various forms of construction grammar, where the feature structure of a mother node is complex, and computed from those of its daughters by various principles. But this is a matter of degree, since certain developments in LFG such as restriction and distributive features reduce this distinction between the approaches.

Another characteristic of the later work was emphasis on showing that the problem of associating a sentence with its structures including meaning was at least recursive and ideally tractable,⁵

³According to my recollections, there was no widespread criticism of Kennedy for using this construction in 1960, but I suspect that if a political figure were to deploy it today, they would be subject to extreme ridicule. So this is a change in status of a construction in the last 60 years from ‘archaic, but still usable for serious purposes’, to ‘only usable for certain minor forms of entertainment, such as satire, Tolkien imitations, and similar’.

⁴Such as Kay & Fillmore (1999) for something not fully formalized, but comparable in degree of formalization to most work in Transformational Grammar and its descendants, or ‘Sign-Based Construction Grammar’ (Boas & Sag, 2012) for something much more formally developed.

⁵Unfortunately, current LFG is not tractable, although some possible changes to make it so are discussed in Kaplan & Wedekind (2020). It is also possible that tractability is a bit overrated; some of the calculations used to make ‘corridor shooters’ such as the computer games *Doom* and *Quake* playable on the slow computers of the 1990s were intractable, but that did not stop

A feature of the compact structures is that, typically, multiple constraints can be checked for them asynchronously, which is not the case for derivations in general. This leads to the distinction made by Pullum & Scholz (2001) between ‘Model Theoretic’ (MTS) and ‘Generative-Enumerative’ (GES) approaches to syntax. In MTS, represented in a relatively pure form by HPSG, a collection of structures is defined by producing a set of constraints which a well-formed structure needs to satisfy, whereas in GES, exemplified in a relatively pure form by many versions of Minimalism, one simply gives a procedure for producing the structure. I perhaps disagree a bit with Pullum and Scholz in seeing this more as a gradient than a division.

For example, PS Grammar can be presented either way, but I think that the GES view can be made intelligible to a top-quality undergraduate student by starting to draw a diagram and talking about it for about a minute and a half, while good undergraduates might require the picture to be finished, along with perhaps another two minutes or so of narrative. An MTS presentation on the other hand would be considerably harder for even the best students, and very likely out of reach for many of the others. This indicates that although PS Grammar can be developed in the style of MTS, a GES presentation has significant virtues.

TG itself seemed to take a somewhat hybridized view. For example Perlmutter (1971) had conventional transformational derivations supplemented with MTS-like constraints at both the deep and surface levels, whereas Lakoff’s ‘Global Rules’ (1970) invited thinking of a transformational derivation as an object in an MTS-like style. This will relate to an issue we discuss later, the rather ‘aspirational’ nature of linguistic structures as representations of equivalence classes of computations a.k.a. proofs.

3.2 Proof Equivalence

As I have been arguing, the prevailing generative view has been that a structure is a convenient object from which various properties can be read off. A somewhat different approach is implicit in the trees of PSG, but only developed explicitly in approaches to syntax and semantics derived from Proof Theory, such as the varieties of Categorical Grammar, and the Glue Semantics of LFG, introduced in the by Dalrymple et al. (1993b), with most of the work from the 1990s collected in Dalrymple (1999), and the current ‘new glue’ system codified in Dalrymple (2001). The basic idea of proof equivalence is that it is sometimes desirable to regard two superficially different proofs of the same thing from the same premises as being the same proof.

thousands of maps for these games from being made and played; mappers just used techniques such as ‘vis-blockers’ to avoid the difficult cases.

The simplest concrete example for linguists, essentially noted by Chomsky, is phrase-structure derivations. Suppose we have the grammar of (5), and the two derivations of (6) (lexical development omitted):

- (5) a. S → NP VP
 b. NP → Det N
 c. VP → V VP

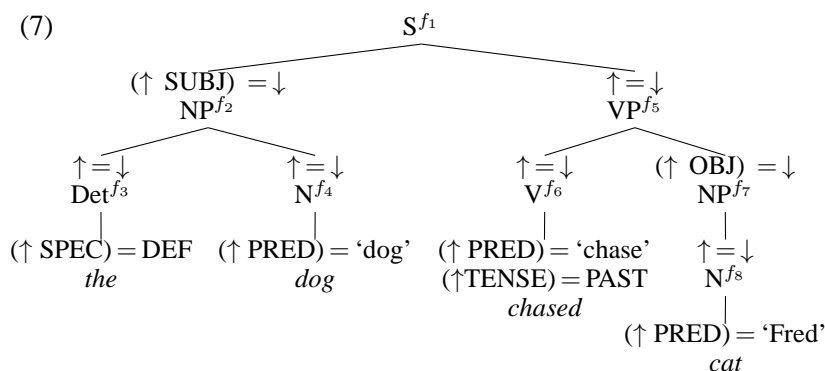
- (6) a. S
 NP VP
 Det N VP
 Det N V NP
 Det N V Det N
- b. S
 NP VP
 NP V NP
 NP V Det N
 Det N V Det N

This difference in derivation does not appear to represent any interesting property of the sentence, and the notion of tree-building as discussed previously provides a notion of equivalence of derivation that renders them both equivalent, providing further benefits such as for example a connection to semantics, as first discussed systematically in the Aspects/Katz-Postal framework. If we think of a PS derivation as a proof that a string is generated by a grammar, the tree is then a representation of an equivalence class of such proofs.

Note however that Chomsky's original notion of P-markers would probably not strike logicians as an appropriate notion of proof-equivalence, since it doesn't distinguish between the use of a premise $A \rightarrow B$ from that of $B \rightarrow A$. Linguists appear to have chosen intuitively the version of proof-equivalence that requires that equivalent proofs use exactly the same premises, and that the structures represent equivalent proofs/computations rather than display of equivalent linguistic data. Classic Transformational derivations also had some limited possibilities for proof/derivation equivalence, such as the order in which subordinate clauses were processed before being combined into a main clause (either by generalized transformations in SS, or cyclical rule application in AST/KF), but not much was made of this.

A later example is LFG's f-structures and solution algorithm, in Kaplan & Bresnan (1982). An f-structure can be regarded as a representation of a set of proofs that the equational annotations to an LFG annotated PS structure (c-structure) are consistent. The proofs in the set differ in the order in which the

equations are processed, a difference which we wish to disregard. To view the f-structure as a proof, however, we need to associate it with the annotations associated with the c-structure by the annotated PS rules, using the labels introduced in instantiation to provide the association. For example in (7) below, the c-structure nodes are given labels which are referred to by the arrows, resulting in the f-description of (8) whose consistency is proved by (9):



(8) $f_1 \text{ SUBJ} = f_2$
 $f_2 = f_3$
 $(f_3 \text{ SPEC}) = \text{DEF}$
 \vdots

(9)
$$\left[\begin{array}{l} \text{SUBJ} \quad f_2, f_3, f_4 \left[\begin{array}{l} \text{SPEC} \quad \text{DEF} \\ \text{PRED} \quad \text{'dog'} \end{array} \right] \\ f_1 \text{ TENSE} \quad \text{PAST} \\ f_5 \text{ PRED} \quad \text{'chase'} \\ f_6 \text{ OBJ} \quad f_7, f_8, \left[\text{PRED} \quad \text{'Fred'} \right] \end{array} \right]$$

See Kaplan & Bresnan (1982) for the details of the solution algorithm, but the basic idea is to build the f-structure by consulting the equations in sequence, halting with failure (proof of inconsistency) if you need to specify different attributes for some value, for example conflicting number on the subject in an example such as **the cats likes the dog*. Similarly to trees, it is also the case that we can use the f-structure with labels to check that it satisfies all of the equations in the f-description, which are thereby shown to be consistent. This of course is very much like a model-theoretic proof of consistency, putting this aspect of LFG firmly within the Pullum-Scholtz concept of MTS.

The proofs that we wish to regard as equivalent are the ones that differ only in the order of processing of the annotations. Kaplan (1987)⁶ proposes that

⁶p. 345 in the reprinted version in Dalrymple et al. (1995)

this is desirable because it supports parsing out from ‘islands of certainty’ in the speech stream, rather than requiring strict left-to-right processing (which, however, has its strong advocates).

There are two further aspects of f-structures that need comment. One is that the f-structure is supposed to be the minimal⁷ solution to the equations: there will in general be more solutions containing additional material. For example if we added a CASE ACC attribute to (8), we would still have a proof that (7) were consistent. But it would clearly be invalid to toss extra structure into the developing f-structure in this manner, due to the likelihood of falsely detecting inconsistency. Another is the requirement that the f-structure be unique as well as minimal. This played a somewhat technical role in the 1982 version of the theory, and it is not entirely clear that we need it today, but the basic idea was to rule out structures produced the ‘PCASE’ analysis of prepositional arguments presented in Kaplan & Bresnan (1982, 196-201), which would have an unspecified variable as an attribute. This would be a final check on a proof that would need to give the same result for all members of the equivalence class.

A further example is provided by glue semantics. This is based rather heavily on the idea of proof-normalization. Glue proofs can in general be presented in multiple ways, involving different order of application and ‘detours’, such as chains of application of implication introduction and elimination in natural deduction. Without proof-normalization steps such as β -contraction and, if desired, η -contraction, there won’t be a finite number of semantic structures associated with the string. Proof-nets provide a diagrammatic portrayal of these equivalence classes, although they don’t appear to have been especially popular.⁸ Tree-style natural deductions similarly abstract away various irrelevant differences in application of proof-steps, but contain considerable internal redundancy. Redundancy versus easy checkability by humans may be a tradeoff that is difficult to remove.

We have seen that in many cases, a concept of ‘equivalent proofs’ can be seen as playing an important role, and is representable as some kind of structure. In the final section I will attempt to combine this with the idea of the previous section that a linguistic structure is something that can be calculated, and from which various linguistic properties can be read off, to produce the idea that a linguistic structure (of sentence or utterance) represents an equivalence class of (possibly partial) computations of properties of sentences or utterances.

⁷The notion of ‘minimality’ can be understood as minimal element in an ordering of f-structures by subsumption; see Johnson (1988) for discussion of many of the relevant issues.

⁸And I am not aware of any proposals to extend them to monads, proposed as an addition to glue by Asudeh & Giorgolo (2016) and Asudeh & Giorgolo (2020).

3.3 Structures as Equivalence Classes of Computations

An important development in recent times has been the blurring, essentially erasure, of the difference between certain kinds of proofs, and computation. The Curry-Howard Isomorphism for example can be seen as the discovery that the computational technique of the lambda calculus has the same structure as proof simplification in certain logical systems. Generally, various techniques for proving that an object has a certain property or value of a property tend to be nondistinct from techniques for calculating the value of that property, or whether the object in question has it (especially since the appearance of practical logic programming systems in the 1980s).

We can therefore see a linguistic structure as an attempt to represent an equivalence class of computations of linguistic properties, ideally extending to both parsing and production. However, there is a major difference between the sentence (or utterance) structures in linguistics and the classes of equivalent proofs in logic, which is that the latter are ‘actual’, in the sense that we know exactly what kinds of proofs we are trying to put into the same class (in any given instance, however the question of why those is perhaps not always so clear), while the former are ‘aspirational’: we do not know what the computations are actually like, but are only pursuing some ideas about how they might be organized, and that under some assumptions that might be questioned, such as that the essential organization (but not of course the detailed flow) is the same for understanding and production. I will try to illustrate this theme by discussing morphology and the famous ‘Person-Case Constraint’ in LFG.

A typical example is provided by preverbal ‘clitic’ object pronouns in Modern Greek, as discussed first in generative grammar by (Bonet, 1991, 181). In this language, if there is an ‘indirect object’ clitic (OBJ_θ according to Kordoni (2004)), although the literature on Greek double object constructions is not extensive in LFG, and I am not aware of any worked out applications of Lexical Mapping Theory to this language), then any direct object clitic cannot be first or second person object, but only third. If the preverbal clitics are analysed as prefixes to the verb, as usually proposed (Condoravdi & Kiparsky, 2001), we can express the Greek version of the PCC with the following constraint on the f-structure that is found by solving the annotations of the verb:

$$(10) * \begin{bmatrix} OBJ & [PERS \ I/II] \\ OBJ_\theta \end{bmatrix}$$

This delivers the result that (a) is good, because the OBJ *ton* is not first or second person, but (b) is bad, because the object *me* is first person, while (c) is good again, because the direct object is not doubled as a clitic:

- (11) a. tha su ton stílune
 FUT you(DAT) him(ACC) send.3pl
 They will send him to you
- b. *tha tu me stílune
 FUT him(DAT) me(ACC) send
 They will send me to him
- c. tha tu stílune eséna
 FUT him(DAT) send you(ACC)
 They will send you to him

Note that in Greek, clitic doubling of accusative pronouns is optional, dative ones obligatory, giving us a simple ‘repair strategy’ for (*b), which is to remove the clitic ‘me’ and add the free object pronoun ‘eména’, parallel to ‘eséna’ in (c).

This is the so-called ‘strong’ version of the PCC; many other languages such as Italian, Catalan and Occitan show a weaker version, in which first or second person direct objects are acceptable as long as the indirect object is not third person (Anagnostopoulou, 2017, 3-4). This can be accommodated with a slightly elaborated version of (10):

- (12) *[OBJ [PERS I|II], OBJ_θ [PERS III]]

There are also further variations; the ‘Me-First PCC’ (Rumanian) blocks 2/3 person IO when DO is 1st person:

- (13) *[OBJ [PERS I], OBJ_θ [PERS II|III]]

Especially interesting from the point of view of how these constraints should really be formulated, is the ‘Ultrastrong’ version, first noted in Fassi Fehri (1988) for Arabic, but also found in some varieties of Catalan. Descriptively, here, the OBJ_θ (IO) must outrank the OBJ on the person hierarchy I>II>III. Therefore (13) is ambiguous for weak speakers, but has only the first reading for Ultrastrong ones:

- (14) Te’m van recomenar per la feina
 II I recommended for the job
 they recommended you to me for the job
 they recommended me to you for the job

I won’t attempt to state this version of the constraint formally, since that would lead on to numerous issues concerning hierarchies and the internal structure of feature-values, but it shares with the other variants the requirement (for an LFG treatment) to assemble the f-structure information associated with a single

word, or word-like unit, and apply constraints to this, before assembling all of the results.

The qualification ‘or word-like unit’ is needed because defining the word is one of the classic unsolved problems of linguistics; the word-like concept relevant here is not necessarily the same as the one involved in morphological irregularities such as suppletion and less drastic forms of allomorphy involved with stems and affixes. I will call this unit the ‘syntactic word’, since it seems to impose limitations on what kinds of f-structure features can be expressed in whatever kind of word-like unit it is ultimately judged to be.⁹ The syntactic word might also be involved in phenomena such as morphological blocking as discussed by Andrews (1990).

On this basis, it would be reasonable to somewhat elaborate the notion of ‘sentence structure’ in LFG to include f-structures for each individual syntactic word, as proposed and called the ‘ λ -projection’ by Kuhn (2003), as part of the infrastructure for Optimality-Theoretic LFG. This idea can be seen as implicit in the standard presentation of an annotated f-structure with the lexical annotations written in association with the individual lexical items, but if we are going to use it for any purpose, it is better to make it explicit, since it constitutes a structure level that the PCC can apply to.

This idea is highly compatible with recent work in LFG morphology, as reviewed and integrated by Dalrymple (2015a), and, more recently, Dalrymple et al. (1995). In this work it is proposed that there is a separate morphological component which produces morphological forms associated with f-structure information. In this context, the PCC provides evidence that we solve the f-structural information provided by each word individually, before combining the results to produce that of the sentence. On the other hand, it provides no evidence concerning existence of ‘m-features’ associated with the morphology, but converted into f-structure features for the production of the f-structure.

3.4 Conclusion

Regarding linguistic structures as aspirational equivalence classes of proofs or computations provides a notion of what they are about that relates them to computation but does not make excessively strong claims. It is also consistent with taking a rather provisional attitude towards their details. In glue semantics, for example, proof nets and (tree-style) natural deductions can be regarded as equating the same proofs, but presenting them in different formats. We can also regard the distinction between Generative-Enumerative and Model Theoretic approaches to syntactic structures as matters of convenience rather than

⁹See Preminger (2019) for discussion of why the PCC can’t be strictly morphological, but does depend on exactly what features a form is expressing.

fundamental importance.

This conception can perhaps also be regarded as a progression on the concept of ‘level 1.5’ presented in Peacocke (1986, 1989) and Davies (1987) as an elaboration of Marr’s (1982) levels 1, 2 and 3 of explanation in cognitive science. Level 1 is supposed to be an extensional specification of what some mental computations do, 2 a specification of the algorithms which they use to do it, and 3 an account of how these algorithms are neurologically implemented. Level 1.5 is a suggested interpolation intended to represent the knowledge used by the algorithm, intermediate between what the algorithm does, from a strictly extensional view, and what it actually is, as a procedure. For example, writing multiple versions of the phrase structure rules for NP in a language with NP-internal agreement would almost certainly be wrong at level 1.5, since it is very unlikely that the apparent PS rules for NPs with different agreement feature specifications would retain the same form for long if there were multiple specifications in use rather than just one.

With the structures however, we try to go a bit further in characterizing the organization of the processes involved, without fully specifying an algorithm. In particular, an argument for a linguistic level can be seen as an argument for a possibly shared pathway for computation of different properties, such as literal meaning and register/genre in the archaic examples of (4), and the nature of significant stages along that pathway. Perhaps this could be called ‘level 1.6’, a further step from 1.5 along the way to 2. Observe in particular that postulating λ -structure does not add any specific information to an LFG grammar (which has the same information in the same format with or without λ -structure), nor does it specify any specific algorithm for using that information, but it does impose a constraint on the organization and functioning of such algorithms.

Bibliography

- Abeillé, Anne, Olivier Bonami, Danièle Godard & Jesse Tseng. 2006. The syntax of French *à* and *de*: An HPSG analysis. In Patrick Saint-Dizier (ed.), *Dimensions of the syntax and semantics of prepositions*, 147–162. Springer.
- Ackerman, Farrell & John Moore. 2001. *Proto-properties and grammatical encoding: A correspondence theory of argument selection*. CSLI Publications.
- Ackerman, Farrell & Gregory Stump. 2004. Paradigms and periphrastic expression. In Louisa Sadler & Andrew Spencer (eds.), *Projecting morphology*, 111–157. CSLI Publications.
- Ackerman, Farrell, Gregory T. Stump & Gert Webelhuth. 2011. Lexicalism, periphrasis, and implicative morphology. In Robert D. Borsley & Kersti Böjars (eds.), *Non-transformational syntax*, 325–358. Blackwell.

- Ackerman, Farrell & Gert Webelhuth. 1998. *A theory of predicates*. CSLI Publications.
- Adelaar, Alexander. 2013. Voice variation in Austronesian languages of Indonesia: Introduction. In Alexander Adelaar (ed.), *Voice variation in austronesian languages of indonesia*, 1–3. NUSA.
- Ahmed, Tafseer, Miriam Butt, Annette Hautli & Sebastian Sulger. 2012. A reference dependency bank for analyzing complex predicates. In *Proceedings of the eighth international conference on language resources and evaluation (LREC 2012)*, 3145–3152.
- Aijmer, Karin. 2009. *Seem* and evidentiality. *Functions of Language* 16(1). 63–88.
- Aikhenvald, Alexandra Y. 2003. *A grammar of Tariana, from Northwest Amazonia*. Cambridge University Press.
- Aikhenvald, Alexandra Y. 2004. *Evidentiality*. Oxford University Press.
- Al-Sharifi, Budour & Louisa Sadler. 2009. The adjectival construct in Arabic. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG09 conference*, 26–43. CSLI Publications.
- Aldridge, Edith. 2004. *Ergativity and word order in austronesian languages*: Cornell University dissertation.
- Aldridge, Edith. 2012. Antipassive and ergativity in Tagalog. *Lingua* 122. 192–203.
- Alhailawani, Mohammad. 2018. *Nominal structure and ellipsis in Jordanian Arabic*: Queen Mary, University of London dissertation.
- Allan, Robin, Philip Holmes & Tom Lundskær-Nielsen. 1995. *Danish. a comprehensive grammar*. Routledge.
- Alsharif, Ahmad. 2014. *Negation in Arabic*: University of Essex dissertation.
- Alsina, Alex. 1996. *The role of argument structure in grammar: Evidence from Romance*. CSLI Publications.
- AlZaharani, Tagreed. 2019. *Floating and non-floating quantifiers in Hijazi Arabic: An HPSG analysis*: University of Essex dissertation.
- Anagnostopoulou, Elena. 2017. The person-case constraint. In Martin Everaert & Henk van Reimsdijk (eds.), *The wiley-blackwell companion to syntax*, Wiley Blackwell 2nd edn.
- Anderson, Stephen R. 1969. *West Scandinavian vowel systems and the ordering of phonological rules*: Massachusetts Institute of Technology dissertation.
- Andrews, Avery. to appear. Complex predicates. In Mary Dalrymple (ed.), *Handbook of lexical-functional grammar*, Language Science Press.
- Andrews, Avery D. 1990. Unification and morphological blocking. *Natural Language and Linguistic Theory* 8. 507–557.
- Andrews, Avery D. 2007. Input and Glue in OT-LFG. In Annie Zaenen, Jane Simpson, Tracy Holloway King, Jane Grimshaw & Chris Manning (eds.),

Architecture, rules and preferences: Variations on themes by Joan Bresnan, 319–340. CSLI Publications.

- Andrews, Avery D. 2008. The role of PRED in LFG+Glue. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG08 conference*, 46–67. CSLI Publications. <http://www.stanford.edu/group/cslipublications/cslipublications/LFG/13/papers/lfg08andrews.pdf>.
- Andrews, Avery D. 2010a. ‘Grammatical’ vs. ‘lexical’ meaning constructors for Glue Semantics. In Yvonne Treis & Rik De Busser (eds.), *Selected papers from the 2009 Conference of the Australian Linguistic Society*, Australian Linguistic Society. <http://www.als.asn.au/proceedings/als2009/andrews.pdf>.
- Andrews, Avery D. 2010b. Propositional Glue and the projection architecture of LFG. *Linguistics and Philosophy* 141–170.
- Andrews, Avery D. 2010c. Yet another attempt to explain Glue. Unpublished manuscript. <http://members.iinet.net.au/~ada/AveryAndrews/Papers/explaininglue.pdf>.
- Andrews, Avery D. 2018. Sets, heads, and spreading in LFG. *Journal of Language Modelling* 6. 131–174.
- Andrews, Avery D. & Christopher D. Manning. 1999. *Complex predicates and information spreading in LFG*. CSLI Publications.
- Aoun, Joseph, ElAbbas Benmamoun & Lina Choueiri. 2010. *The syntax of Arabic*. Cambridge University Press.
- Arka, I. Wayan. 2000. Control and argument structure: Explaining control into subject in Indonesian. Tech. rep. ANU.
- Arka, I. Wayan. 2002. Voice systems in the Austronesian languages of Nusantara: Typology, symmetry and undergoer orientation. In *10th national symposium of the indonesia linguistics society*, .
- Arka, I. Wayan. 2003. *Balinese morphosyntax: A lexical-functional approach*. Pacific Linguistics. Revised version of the author’s PhD dissertation.
- Arka, I. Wayan. 2005a. The core-oblique distinction and core index in some Austronesian languages of Indonesia. In *International alt vi conference (association of linguistic typology)*, .
- Arka, I Wayan. 2005b. Speech levels, social predicates and pragmatic structure in Balinese: A lexical approach. *Pragmatics* 15. 169–203.
- Arka, I Wayan. 2018. Grammatical relations in Balinese. In Alena Witzlack-Makarevich & Balthasar Bickel (eds.), *Argument selectors: A new perspective on grammatical relations*, 257–300. John Benjamins.
- Arka, I Wayan & Mary Dalrymple. 2016. Number and plural semantics: Empirical evidence from Marori. *NUSA: Linguistic Studies of Languages In and Around Indonesia* 60(30). 89–106.
- Arka, I Wayan, Mary Dalrymple, Meladel Mistica, Suriel Mofu, Avery An-

- draws & Jane Simpson. 2009. A linguistic and computational morphosyntactic analysis for the applicative *-i* in Indonesian. In Miriam Butt & Tracy Holloway King (eds.), *The proceedings of the LFG09 conference*, 85–105. CSLI Publications.
- Arka, I Wayan & Christopher Manning. 2008. Voice and grammatical relations in Indonesian: A new perspective. In P.K. Austin & S. Musgrave (eds.), *Voice and grammatical relations in Austronesian languages*, 45–69. CSLI Publications.
- Arka, I. Wayan & Christopher D. Manning. 1998. *Voice and grammatical relations in Indonesian: A new perspective*. CSLI Publications.
- Arka, I. Wayan & Malcolm Ross (eds.). 2005. *The many faces of austronesian voice systems: Some new empirical studies*. Pacific Linguistics.
- Arka, I Wayan & Nurenzia Yannuar. 2016. On the morphosyntax and pragmatics of *-in* in Colloquial Jakartan Indonesian. *Indonesian and the Malay World* 1–23.
- Arnold, Doug. 2015. A Glue Semantics for structurally regular MWEs. Poster presented at the PARSEME 5th general meeting, Romania.
- Arnold, Jennifer. 1997. The inverse system in Mapudungun and other languages. *Revista de Linguística Teórica y Aplicada* 34.
- Asikin-Garmager, Eli Scott. 2017. *Sasak voice*: University of Iowa dissertation.
- Asudeh, Ash. 1998. *Anaphora and argument structure: Topics in the syntax and semantics of reflexives and reciprocals*. University of Edinburgh MA thesis.
- Asudeh, Ash. 2002. Richard III. In Mary Andronis, Erin Debenport, Anne Pycha & Keiko Yoshimura (eds.), *CLS 38: The main session*, vol. 1, 31–46. Chicago Linguistic Society.
- Asudeh, Ash. 2004. *Resumption as resource management*: Stanford University dissertation.
- Asudeh, Ash. 2006. Direct compositionality and the architecture of LFG. In Miriam Butt, Mary Dalrymple & Tracy Holloway King (eds.), *Intelligent linguistic architectures: Variations on themes by Ronald M. Kaplan*, 363–387. CSLI Publications.
- Asudeh, Ash. 2012. *The logic of pronominal resumption*. Oxford University Press.
- Asudeh, Ash. 2013. Directionality and the production of ungrammatical sentences. *Studies in Linguistics* 6. 83–106.
- Asudeh, Ash, Mary Dalrymple & Ida Toivonen. 2008. Constructions with lexical integrity: Templates as the lexicon-syntax interface. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG08 conference*, 68–88. CSLI Publications.
- Asudeh, Ash, Mary Dalrymple & Ida Toivonen. 2013. Constructions with Lex-

- ical Integrity. *Journal of Language Modelling* 1(1). 1–54. <http://jlm.ipipan.waw.pl/index.php/JLM/article/view/56/49>.
- Asudeh, Ash & Gianluca Giorgolo. 2012. Flexible composition for optional and derived arguments. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG12 conference*, 64–84. CSLI Publications.
- Asudeh, Ash & Gianluca Giorgolo. 2016. Perspectives. *Semantics & Pragmatics* 9.
- Asudeh, Ash & Gianluca Giorgolo. 2020. *Enriched meanings: Natural language semantics with category theory*. Oxford University Press.
- Asudeh, Ash, Gianluca Giorgolo & Ida Toivonen. 2014. Meaning and valency. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG14 conference*, 68–88. CSLI Publications.
- Asudeh, Ash, Lisa Sullivan & Ida Toivonen. 2017. Evidentiality and reliability in English copy raising. Presented at *The Linguistic Society of America Annual Conference*, Austin.
- Asudeh, Ash & Ida Toivonen. 2012. Copy raising and perception. *Natural Language and Linguistic Theory* 30(2). 321–380.
- Asudeh, Ash & Ida Toivonen. 2014. *With Lexical Integrity*. *Theoretical Linguistics* 40(1–2). 175–186.
- Asudeh, Ash & Ida Toivonen. 2017. A modular approach to evidentiality. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG17 conference*, 45–65. CSLI Publications.
- Attia, Mohammed. 2008. A unified analysis of copula constructions in LFG. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG08 conference*, 89–108. CSLI Publications.
- Austin, Peter. 2001. Verbs, valence and voice in Balinese, Sasak and Sumbawan. *La Trobe Papers in Linguistics* 11. 47–71.
- Baader, Franz, Diego Calvanese, Deborah McGuinness, Peter Patel-Schneider & Daniele Nardi. 2003. *The description logic handbook: Theory, implementation and applications*. Cambridge University Press.
- Babby, Leonard H. 1993. Hybrid causative constructions: Benefactive causative and adversity passive. In Bernard Comrie & Maria Polinsky (eds.), *Causatives and transitivity*, 343–367. Benjamins.
- Baker, Mark. 1983. Objects, themes and lexical rules in Italian. In Lori S. Levin, Malka Rappaport & Annie Zaenen (eds.), *Papers in Lexical-Functional Grammar*, 1–45. Indiana University Linguistics Club.
- Baker, Mark C. 1988. *Incorporation: A theory of grammatical function changing*. University of Chicago Press.
- Bardeas, Suzanne Mahmoud. 2009. *The syntax of the Arabic DP*: University of York dissertation.
- Barker, Chris. 1997. *Possessive descriptions*. CSLI Publications.

- Bary, Corien & Dag Haug. 2011. Temporal anaphora across and inside sentences: The function of participles. *Semantics & Pragmatics* 4(8). <http://dx.doi.org/10.3765/sp.4.8>.
- Baunaz, Lena, Karen De Clercq, Liliane Haegeman & Eric Lander (eds.). 2018. *Exploring nanosyntax*. Oxford University Press.
- Bayer, Josef. 1996a. *Directionality and logical form*. Kluwer.
- Bayer, Samuel. 1996b. The coordination of unlike categories. *Language* 72. 579–616.
- Belyaev, Oleg. 2010. Evolution of case in Ossetic. *Iran and the Caucasus* 14. 287–322.
- Belyaev, Oleg, Mary Dalrymple & John Lowe. 2015. Number mismatches in coordination: An LFG analysis. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG15 conference*, 26–46. CSLI Publications.
- Belyaev, Oleg I. 2014. Osetinskij kak jazyk s dvuxpadežnoj sistemoj: Gruppovaja fleksija i drugie paradoksy padežnogo markirovanija. *Voprosy Jazykoznanija* 6. 31–65. Ossetic as a two-case language: Suspended affixation and other case marking paradoxes.
- van den Berg, Martin, Cleo Condoravdi & Richard Crouch. 2001. Counting concepts. In R. van Rooy (ed.), *Proceedings of the thirteenth amsterdam colloquium*, 67–72.
- Bhatt, Rajesh. 2005. Long distance agreement in Hindi-Urdu. *Natural Language and Linguistic Theory* 23. 757–807.
- Bickel, Balthasar. 2010. Grammatical relations typology. In Jae Jung Song (ed.), *The oxford handbook of linguistic typology*, Oxford University Press.
- Biswas, Alexander A. 2017. *Inflectional periphrasis in LFG*. University of Oxford MA thesis.
- Boas, Hans C. & Ivan A. Sag. 2012. *Sign-based construction grammar*. CSLI Publications.
- Bobrow, Danny G., Bob Cheslow, Cleo Condoravdi, Lauri Karttunen, Tracy Holloway King, Rowan Nairn, Valeria de Paiva, Charlotte Price & Annie Zaenen. 2007a. PARC's Bridge question answering system. In *Proceedings of the geaf (grammar engineering across frameworks) 2007 workshop*.
- Bobrow, Danny G., Cleo Condoravdi, Richard Crouch, Valeria de Paiva, Lauri Karttunen, Tracy Holloway King, Rowan Nairn, Charlotte Price & Annie Zaenen. 2007b. Precision-focused textual inference. In *Proceedings of the ACL-PASCAL workshop on textual entailment and paraphrasing RTE07*, 16–21. Association for Computational Linguistics. <http://dl.acm.org/citation.cfm?id=1654536.1654541>.
- Bock, J. Kathryn & Willem J. M. Levelt. 1994. Language production: Grammatical encoding. In Morton A. Gernsbacher (ed.), *Handbook of psycholin-*

- guistics*, 945–984. Academic Press.
- Bögel, Tina. 2015. *The syntax-prosody interface in lexical-functional grammar*: University of Konstanz dissertation.
- Bögel, Tina & Miriam Butt. 2012. Possessive clitics and *ezafe* in Urdu. In Kersti Börjars, David Denison & Alan Scott (eds.), *Morphosyntactic categories and the expression of possession*, 291–322. John Benjamins. Linguistik Aktuell/Linguistics Today 199.
- Bögel, Tina, Miriam Butt, Annette Hautli & Sebastian Sulger. 2009. Urdu and the modular architecture of ParGram. In *Proceedings of the conference on language and technology 2009 (clt09)*, 1–7. Center for Research in Urdu Language Processing (CRULP).
- Bögel, Tina, Miriam Butt, Ronald M. Kaplan, Tracy Holloway King & John T. Maxwell III. 2010. Second position and the prosody-syntax interface. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG10 conference*, CSLI Publications.
- Bonet, Eulalia. 1991. *Morphology after syntax*: Massachusetts Institute of Technology dissertation.
- Borer, Hagit. 1984. *Parametric syntax: Case studies in Semitic and Romance languages*. Foris.
- Börjars, Kersti, Erika Chisarik & John Payne. 1999. On the justification for functional categories in LFG. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG99 conference*, CSLI.
- Börjars, Kersti, Christopher Hicks & John Payne. 2018. Interdependencies in Chinese noun phrases. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG18 Conference*, 109–128. CSLI Publications.
- Börjars, Kersti, Safiah Madkhali & John Payne. 2015. Masdars and mixed category constructions. In Miriam Butt & Tracy Holloway King (eds.), *The proceedings of the LFG15 conference*, 47–63. CSLI Publications.
- Börjars, Kersti & Nigel Vincent. 2008. Objects and OBJ. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG08 conference*, CSLI Publications.
- Börjars, Kersti, Nigel Vincent & Carol Chapman. 1997. Paradigms, periphrases and pronominal inflection. In Geert Booij & Jaap van Marle (eds.), *Yearbook of morphology 1996*, 155–180. Kluwer.
- Börjars, Rachel Nordlinger, Kersti & Louisa Sadler. 2019. *Lexical-functional grammar. an introduction*. Cambridge University Press.
- Borsley, Robert. 2001. What do ‘prepositional complementizers’ do? *Probus* 13. 155–171.
- Borsley, Robert D. 2005. Against ConjP. *Lingua* 115. 461–482.
- Boston, Marisa, Richard Crouch, Erdem Özcan & Peter Stubbley. 2019. Natural language inference using an ontology. In Cleo Condoravdi & Tracy Hol-

- loway King (eds.), *Tokens of meaning: Papers in honor of lauri karttunen*, CSLI Publications.
- Bresnan, Joan. 1978. A realistic transformational grammar. In Morris Halle, Joan Bresnan & George A. Miller (eds.), *Linguistic theory and psychological reality*, 1–59. MIT Press.
- Bresnan, Joan. 1982a. Control and complementation. *Linguistic Inquiry* 13. 343–434.
- Bresnan, Joan. 1982b. The passive in lexical theory. In Joan Bresnan (ed.), *The mental representation of grammatical relations*, 3–86. MIT Press.
- Bresnan, Joan. 1984. Bound anaphora on functional structures. Presented at the Tenth Annual Meeting of the Berkeley Linguistics Society.
- Bresnan, Joan. 1990. Monotonicity and the theory of relation changes in LFG. *Language Research* 26(4). 637–652.
- Bresnan, Joan. 1995. Linear order, syntactic rank, and empty categories: On weak crossover. In Mary Dalrymple, Ronald M. Kaplan, John T. Maxwell III & Annie Zaenen (eds.), *Formal issues in Lexical-Functional Grammar*, 241–274. CSLI Publications.
- Bresnan, Joan. 2001. *Lexical-Functional Syntax*. Blackwell.
- Bresnan, Joan, Ash Asudeh, Ida Toivonen & Stephen Wechsler. 2016. *Lexical-functional syntax*. Wiley-Blackwell 2nd edn.
- Bresnan, Joan & Jonni M. Kanerva. 1989. Locative inversion in Chicheŵa: A case study of factorization in grammar. *Linguistic Inquiry* 20(1). 1–50.
- Bresnan, Joan & Lioba Moshi. 1990. Object asymmetries in comparative Bantu syntax. *Linguistic Inquiry* 21(2). 147–185.
- Bresnan, Joan & Annie Zaenen. 199. Deep unaccusativity in LFG. In Katarzyna Dziwirek, Patrick Farrell & Errapel Mejias-Bikandi (eds.), *Grammatical relations: A cross-theoretical perspective*, 45–57. CSLI Publications.
- Broadwell, George Aaron. 2008. Turkish suspended affixation is lexical sharing. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG08 conference*, CSLI Publications.
- Brook, Marisa. 2018. Taking it up a level: Copy-raising and cascaded tiers of morphosyntactic change. *Language Variation and Change* 30. 231–260.
- Bruening, Benjamin & Eman Al Khalaf. 2020. Category mismatches in coordination revisited. *Linguistic Inquiry* 51. 1–36.
- Butt, John & Carmen Benjamin. 1994. *A new reference grammar of modern spanish*. Edward Arnold.
- Butt, Miriam. 1993. Object specificity and agreement in Hindi/Urdu. In Katherine Beals, Gina Cooke, David Kathman, Sotaro Kita, Karl-Erik McCullough & David Testen (eds.), *Papers from the 29th regional meeting of the chicago linguistic society*, vol. 1, 89–103.
- Butt, Miriam. 1995. *The structure of complex predicates in urdu*. CSLI Publi-

cations.

- Butt, Miriam. 1998. Constraining argument merger through aspect. In Erhard Hinrichs, Andreas Kathol & Tsuneko Nakazawa (eds.), *Complex predicates in nonderivational syntax*, 73–113. Academic Press.
- Butt, Miriam. 2014. Control vs. complex predication: Identifying non-finite complements. *Natural Language and Linguistic Theory* 165–190.
- Butt, Miriam, Mary Dalrymple & Anette Frank. 1997. An architecture for linking theory in LFG. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG97 conference*, CSLI Publications. <http://web.stanford.edu/group/cslipublications/cslipublications/LFG/LFG2-1997/lfg97butt-dalrymple-frank.pdf>.
- Butt, Miriam, Farhat Jabeen & Tina Bögel. 2016a. Verb cluster internal wh-phrases in Urdu: Prosody, syntax and semantics/pragmatics. *Linguistic Analysis* 40(3–4).
- Butt, Miriam & Tracy Holloway King. 1991. Semantic case in Urdu. In L. Dobrin, L. Nichols & R. Rodriguez (eds.), *Papers from the 27th regional meeting of the Chicago Linguistic Society (CLS)*, 31–46.
- Butt, Miriam & Tracy Holloway King. 1998. Interfacing phonology with LFG. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG98 conference*, CSLI Publications.
- Butt, Miriam & Tracy Holloway King. 2004. The status of case. In Veneeta Dayal & Anoop Mahajan (eds.), *Clause structure in south asian languages* (Studies in Natural Language and Linguistic Theory 61), 153–198. Springer.
- Butt, Miriam & Tracy Holloway King. 2005. The status of case. In Veneeta Dayal & Anoop Mahajan (eds.), *Clause structure in South Asian languages*, Kluwer Academic Publishers.
- Butt, Miriam & Tracy Holloway King. 2007. Urdu in a parallel grammar development environment. *Language Resources and Evaluation* 41. 191–207. Special Issue on Asian Language Processing: State of the Art Resources and Processing.
- Butt, Miriam, Tracy Holloway King, Maria-Eugenia Niño & Frédérique Segond. 1999. *A grammar writer's cookbook*. CSLI Publications.
- Butt, Miriam, María-Eugenia Niño & Frédérique Segond. 1996. Multilingual processing of auxiliaries within LFG. In Dafydd Gibbon (ed.), *Natural language processing and speech technology: Results of the 3rd KONVENS conference, universität bielefeld*, 111–122. Mouton de Gruyter.
- Butt, Miriam & Jafar Rizvi. 2010. Tense and aspect in Urdu. In Patricia Cabredo-Hofherr & Brenda Laca (eds.), *Layers of aspect*, 43–66. CSLI Publications.
- Butt, Miriam, Sebastian Sulger, Mutee U Rahman & Tafseer Ahmed. 2016b. Adverb agreement in Urdu, Sindhi and Punjabi. In *Proceedings of the joint*

- 2016 conference on Head-driven Phrase Structure Grammar and Lexical Functional Grammar, 140–160. CSLI On-line Publications.
- Carlson, Gregory N. 1983. Marking constituents. In Frank Heny & Barry Richards (eds.), *Linguistic categories: Auxiliaries and related puzzles*, vol. 1, 69–98. D. Reidel.
- Carrier-Duncan, Jill. 1985. Linking of thematic roles in derivational word formation. *Linguistic Inquiry* 16. 1–34.
- Carroll, Jeremy, Christian Bizer, Patrick Hayes & Patrick Stickler. 2004. Named graphs, provenance and trust. In *Proceedings of the 14th international conference on world wide web (www 05)*, vol. 14, 613–622.
- Chafe, Wallace & Johanna Nichols. 1986. *Evidentiality: The linguistic encoding of epistemology*. Ablex Publishing Corporation.
- Chao, Wynn. 1987. *On ellipsis*: University of Massachusetts at Amherst dissertation.
- Chao, Yuen Ren. 1968. *A grammar of spoken Chinese*. University of California Press.
- Chapman, Cassandra, Diane Doran & Daniel Schmidtke. 2015a. The locus of evidentiality in English. Presented at *The Annual meeting of the Canadian Linguistics Association*, Ottawa.
- Chapman, Cassandra, Diane Doran & Daniel Schmidtke. 2015b. Testing the constraints on evidentiality in English: A forced-choice acceptability judgment task. Presented at *Experimental Approaches to Semantics*, Barcelona.
- Chappell, Hilary & William McGregor. 1996. Prolegomena to a theory of inalienability. In Hilary Chappell & William McGregor (eds.), *The grammar of inalienability: A typological perspective on body part terms and the part-whole relation*, 3–30. Mouton de Gruyter.
- Charlow, Simon. 2012. Cross-categorial donkeys. In *Logic, language, and meaning: Proceedings of the eighteenth amsterdam colloquium*, 261–270.
- Chatterji, Suniti Kumar. 1921. Bengali phonetics. *Bulletin of the School of Oriental and African Studies* 2. 1–25.
- Chen, Victoria & Bradley McDonnell. 2019. Western Austronesian voice. *Annual Review of Linguistics* 5. 173–195.
- Cheng, Lisa L.-S. & Rint Sybesma. 1998. *Yi-wan tang, yi-ge tang*: Classifiers and massifiers. *Tsing Hua Journal of Chinese Studies* New series 28(3). 385–412.
- Cheng, Lisa L.-S. & Rint Sybesma. 1999. Bare and not-so-bare nouns and the structure of NP. *Linguistic Inquiry* 30(4). 509–542.
- Cheung, Johnny. 2008. The Ossetic case system revisited. In Alexander Lubotsky, Jos Schaeken & Jeroen Wiedenhof (eds.), *Balto-slavic and indo-european linguistics*, vol. 1, 87–106. Rodopi.
- Chierchia, Gennaro. 1998. Reference to kinds across languages. *Natural Lan-*

- guage Semantics* 6. 339–405.
- Choi, Hye-Won. 1999. *Optimizing structure in context: Scrambling and information structure*. CSLI Publications.
- Chomsky, Avram Noam. 1964. Degrees of grammaticalness. In Jerry A. Fodor & Jerrold J. Katz (eds.), *The structure of language: Readings in the philosophy of language*, 384–389. Prentice-Hall.
- Chomsky, Noam. 1957. *Syntactic structures*. Mouton.
- Chomsky, Noam. 1965. *Aspects of the theory of syntax*. MIT Press.
- Chomsky, Noam. 1970. Deep structure, surface structure and semantic interpretation. In Roman Jakobson & Shigeo Kawamoto (eds.), *Studies in general and Oriental linguistics presented to Shiro Hattori on the occasion of his sixtieth birthday*, 52–91. TEC Company, Ltd. Reprinted by IULC and Mouton as Chomsky (1972) *Studies in Semantics in Generative Grammar*.
- Chomsky, Noam. 1981. *Lectures on Government and Binding*. Foris.
- Chomsky, Noam. 1982. *Some concepts and consequences of the theory of Government and Binding*. MIT Press.
- Chomsky, Noam. 1993. A minimalist program for linguistic theory. In Kenneth Hale & Samuel Jay Keyser (eds.), *The view from Building 20: Essays in linguistics in honor of Sylvain Bromberger*, 1–52. MIT Press.
- Chomsky, Noam. 1995. *The Minimalist Program*. MIT Press.
- Choueiri, Lina. 2016. Locative prepositional phrases and inalienable PLACE in Lebanese Arabic. In Stuart Davis & Usama Soltan (eds.), *Perspectives on Arabic linguistics XXVII*, 3–34. John Benjamins.
- Chung, Sandra. 1976a. An object-creating rule in Bahasa Indonesia. *Linguistic Inquiry* 7. 41–87.
- Chung, Sandra. 1976b. On the subject of two passives in Indonesian. In Charles N. Li (ed.), *Subject and topic*, 57–99. Academic Press.
- Chung, Sandra. 2000. On reference to kinds in Indonesian. *Natural Language Semantics* 8. 157–171.
- Cocchiarella, Nino B. 2002. Philosophical perspectives on quantification in tense and modal logic. In D. M. Gabbay & F. Guenther (eds.), *Handbook of philosophical logic*, 235–275. Springer.
- Cole, Peter & Gabriella Hermon. 2000. Partial wh-movement: Evidence from Malay. In Uli Lutz, Gereon Müller & Arnim von Stechow (eds.), *Wh-scope marking*, 101–130. John Benjamins.
- Cole, Peter, Gabriella Hermon & Yassir Tjung. 2003. The formation of relative clause in Jakarta Indonesian: Data from adults and children. In *Proceedings of the seventh international symposium on malaya/indonesian linguistics*, .
- Cole, Peter, Gabriella Hermon & Yanti Yanti. 2008. Voice in Malay/Indonesian. *Lingua* 118. 1500–1553.
- Condoravdi, Cleo, Dick Crouch, John Everett, Valeria Paiva, Reinhard Stolle,

- Danny Bobrow & Martin van den Berg. 2001. Preventing existence. In *Proceedings of the international conference on formal ontology in information systems FOIS01*, 162–173. Association for Computing Machinery.
- Condoravdi, Cleo, Mary Dalrymple, Dag Haug & Adam Przepiórkowski. 2019. Modification of DPs by epistemic adverbs. In K. Blake, F. Davis, K. Lamp & J. Rhyne (eds.), *Proceedings of the 29th semantics and linguistic theory conference (salt 29)*, 477–495.
- Condoravdi, Cleo & Paul Kiparsky. 2001. Clitics and clause structure. *Journal of Greek Linguistics* 2. 1–39.
- Cooreman, Ann, Barbara A. Fox & Talmy Givón. 1984. The discourse definition of ergativity. *Studies in Language* 8. 1–34.
- Croft, William & D. Alan Cruse. 2004. *Cognitive linguistics*. Cambridge University Press.
- Crouch, Dick, Mary Dalrymple, Ronald M Kaplan, Tracy Holloway King, John T. Maxwell III & Paula Newman. 2011. *XLE documentation*. Palo Alto Research Center (PARC).
- Crouch, Dick, Mary Dalrymple, Ronald M Kaplan, Tracy Holloway King, John T. Maxwell III & Paula Newman. 2012. *XLE documentation*. Palo Alto Research Center (PARC).
- Crouch, Dick, Mary Dalrymple, Ronald M. Kaplan, Tracy Holloway King, John T. Maxwell III & Paula Newman. 2017. *XLE documentation*. Palo Alto Research Center (PARC).
- Crouch, Richard & Aikaterini-Lida Kalouli. 2018. Named graphs for semantic representation. In *Proceedings of the seventh joint conference on lexical and computational semantics*, 113–118. Association for Computational Linguistics.
- Culicover, Peter W. & Ray Jackendoff. 2005. *Simpler syntax*. Oxford University Press.
- Curry, Haskell B. & Robert Feys. 1958. *Combinatory logic: Volume I*. North Holland.
- Dahl, Osten. 1972. *On so-called “sloppy” identity*, vol. 11 Gothenburg Papers in Theoretical Linguistics. University of Göteborg.
- Dahl, Osten. 1974. How to open a sentence: Abstraction in natural language. Tech. rep. University of Göteborg. Logical Grammar Reports, No. 12.
- Dalrymple, Mary. 1993. *The syntax of anaphoric binding*. CSLI Publications.
- Dalrymple, Mary (ed.). 1999. *Semantics and syntax in Lexical Functional Grammar: The resource logic approach*. MIT Press.
- Dalrymple, Mary. 2001. *Lexical functional grammar*. Academic Press.
- Dalrymple, Mary. 2012. Number marking: An LFG overview. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG12 Conference*, 139–1568. CSLI Publications.

- Dalrymple, Mary. 2015a. Morphology in the LFG architecture. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of LFG15*, 64–83. CSLI Publications.
- Dalrymple, Mary. 2015b. Periphrasis and morphology in LFG. In *Workshop on morphology*, .
- Dalrymple, Mary. 2017. Unlike phrase structure category coordination. *Bergen Language and Linguistics Studies* 8. 33–55.
- Dalrymple, Mary, Helge Dyvik & Tracy Holloway King. 2004a. Copular complements: Closed or open? In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG04 conference*, 188–198. CSLI Publications.
- Dalrymple, Mary, Vineet Gupta, John Lamping & Vijay Saraswat. 1999a. Relating resource-based semantics to categorial semantics. In Mary Dalrymple (ed.), *Semantics and syntax in Lexical Functional Grammar: the resource logic approach*, 261–280. MIT Press.
- Dalrymple, Mary, Dag T. T. Haug & John J. Lowe. 2018. Integrating LFG's binding theory with PCDRT. *Journal of Language Modelling* 6(1). 87–129. <https://doi.org/10.15398/jlm.v6i1.204>.
- Dalrymple, Mary, Angie Hinrichs, John Lamping & Vijay Saraswat. 1993a. The resource logic of complex predicate interpretation. In *Proceedings of the 1993 Republic of China Computational Linguistics Conference (ROCLING)*, <http://www.aclclp.org.tw/rocling/1993/K01.pdf>.
- Dalrymple, Mary & Bozhil Hristov. 2010. Agreement patterns and coordination in Lexical Functional Grammar. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG10 conference*, CSLI Publications.
- Dalrymple, Mary, Makoto Kanazawa, Yookyung Kim, Sam Mchombo & Stanley Peters. 1998. Reciprocal expressions and the concept of reciprocity. *Linguistics and Philosophy* 21. 159–210.
- Dalrymple, Mary & Ronald M Kaplan. 2000. Feature indeterminacy and feature resolution. *Language* 76. 759–798.
- Dalrymple, Mary, Ronald M. Kaplan & Tracy Holloway King. 2001. Weak crossover and the absence of traces. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG01 conference*, 66–82. CSLI Publications.
- Dalrymple, Mary, Ronald M. Kaplan & Tracy Holloway King. 2004b. Linguistic generalizations over descriptions. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG04 conference*, 199–208. CSLI Publications.
- Dalrymple, Mary, Ronald M. Kaplan & Tracy Holloway King. 2007. The absence of traces: Evidence from weak crossover. In Jane Simpson, Annie Zaenen, Tracy Holloway King, Jane Grimshaw, Joan Maling & Christopher Manning (eds.), *Architectures, rules, and preferences: Variations on themes by Joan W. Bresnan*, 85–102. CSLI Publications.
- Dalrymple, Mary, Ronald M. Kaplan, John T. Maxwell & Annie Zaenen (eds.).

1995. *Formal issues in Lexical-Functional Grammar*. CSLI Publications.
- Dalrymple, Mary & Tracy Holloway King. 2019. An amazing four doctoral dissertations. *Argumentum* 15. 490–503.
- Dalrymple, Mary, Tracy Holloway King & Louisa Sadler. 2009. Indeterminacy by underspecification. *Journal of Linguistics* 45. 31–068.
- Dalrymple, Mary, John Lamping, Fernando Pereira & Vijay Saraswat. 1996. A deductive account of quantification in LFG. In Makoto Kanazawa, Christopher Piñón & Henriëtte de Swart (eds.), *Quantifiers, deduction, and context*, 33–57. CSLI Publications.
- Dalrymple, Mary, John Lamping, Fernando Pereira & Vijay Saraswat. 1999b. Overview and introduction. In Mary Dalrymple (ed.), *Semantics and syntax in Lexical Functional Grammar: The resource logic approach*, MIT Press.
- Dalrymple, Mary, John Lamping & Vijay Saraswat. 1993b. LFG semantics via constraints. In Michael Moortgat, Steven Krauwer & Louis des Tombe (eds.), *Proceedings of the sixth conference of the european ACL*, 97–105.
- Dalrymple, Mary, John Lowe & Louise Mycock. 2019. *The oxford reference guide to Lexical Functional Grammar*. Oxford University Press.
- Dalrymple, Mary & Suriel Mofu. 2012. Plural semantics, reduplication, and numeral modification in Indonesian. *Journal of Semantics* 29(2). 229–260.
- Dalrymple, Mary & Louise Mycock. 2011. The prosody-semantics interface. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG11 conference*, 173–193. CSLI Publications.
- Dalrymple, Mary & Irina Nikolaeva. 2011. *Objects and information structure*. Cambridge University Press.
- Dalrymple, Mary, Agnieszka Patejuk & Mark-Matthias Zymla. 2020. XLE+Glue: A new tool for integrating semantic analysis in XLE. Submitted to the LFG 2020 proceedings.
- Dalrymple, Mary, Stuart M. Shieber & Fernando C. N. Pereira. 1991. Ellipsis and higher-order unification. *Linguistics and Philosophy* 14(4). 399–452. <https://doi.org/10.1007/BF00630923>.
- Dalrymple, Mary & Annie Zaenan. 1991. Modeling anaphoric superiority. In *Proceedings of the international conference on current issues in computational linguistics*, .
- Dardjowidjojo, Soenjono. 1978. *Sentence patterns of Indonesian*. University of Hawaii Press.
- Davey, Brian A. & Hilary A. Priestley. 2002. *Introduction to lattices and order*. Cambridge University Press.
- Davey, Richard. 2013. *Coastal Dhofārī Arabic: A sketch grammar*: University of Manchester dissertation.
- Davidson, D. 1967. The Logical Form of action sentences. In N. Rescher (ed.), *The logic of decision and action*, 81–95. University of Pittsburgh Press.

- Davies, Mark. 2013. Corpus of News on the Web (NOW): 3+ billion words from 20 countries updated every day. Online.
- Davies, Martin. 1987. Tacit knowledge and semantic theory: Can a five percent difference matter? *Mind* 96. 441–462.
- Dayal, Veneeta. 2018. (In)definiteness without articles: Diagnosis, analysis, implications. In G. Sharma & R. Bhatt (eds.), *Trends in hindi linguistics*, Mouton de Gruyter.
- De Guzman, Videia P. 1988. Ergative analysis for Philippine languages: An analysis. In R. McGinn (ed.), *Studies in austronesian linguistics*, Ohio University Press.
- Deal, Amy Rose. 2017. External possession and possessor raising. In Martin Everaert & Henk van Riemsdijk (eds.), *The wiley blackwell companion to syntax*, 1509–1540. Wiley 2nd edn.
- Déchaine, Rose-Marie. 2005. Grammar at the borderline. a case study of P as a lexical category. In John Alderete, Chung hye Han & Alexwi Kochetov (eds.), *Proceedings of the 24th west coast conference on formal linguistics*, 1–18. Cascadilla Proceedings Project.
- Degen, Judith, Andreas Trotzke, Gregory Scontras, Eva Wittenberg & Noah D. Goodman. 2019. Definitely, maybe: A new experimental paradigm for investigating the pragmatics of evidential devices across languages. *Journal of Pragmatics* 140. 33–48.
- Devlin, Keith. 2012. *The joy of sets: Fundamentals of contemporary set theory*. Springer Science & Business Media.
- Dik, Simon C. 1997. *The theory of functional grammar: Part 1: The structure of the clause*. Mouton de Gruyter.
- Dixon, R.M.W. 1979. Ergativity. *Language* 55. 59–138.
- Dixon, R.M.W. 1994. *Ergativity*. Cambridge University Press.
- Dixon, R.M.W. 2010. *Basic linguistic theory. volume 2: Grammatical topics*. Oxford University Press.
- Doran, Diane. 2015. *The semantics of copy raising*. McMaster University MA thesis.
- Dowty, David. 1991. Thematic proto-roles and argument selection. *Language* 67.
- Dryer, Matthew S. 1997. Are grammatical relations universal. In Joan Bybee, John Haiman & Sandra A. Thompson (eds.), *Essays on language function and language type dedicated to t. givón*, 115–143. John Benjamins.
- Dryer, Matthew S. 2013. Order of numeral and noun. In Matthew S. Dryer & Martin Haspelmath (eds.), *The world atlas of language structures online*, Max Planck Institute for Evolutionary Anthropology.
- Dryer, M.S. 1986. Primary objects, secondary objects, and antipassive. *Language* 64. 808–845.

- Einarsson, Stefan. 1949. *Icelandic: Grammar, texts, glossary*. John Hopkins Press.
- Ellsworth, Michael, Russell Lee-Goldman & Russell Rhodes. 2008. A paradox of English determination: The construction of complex number expressions. In *WECOL 38: Proceedings of the western conference on linguistics*, 24–33.
- Emonds, Joseph. 1970. *Root and structure-preserving transformations*: Massachusetts Institute of Technology dissertation. Distributed by the Indiana University Linguistics Club.
- Emonds, Joseph. 1976. *A transformational approach to English syntax*. Academic Press.
- Erlewine, Michael Yoshitaka & Cheryl Lim. 2018. Bikol clefts and topics and the Austronesian subject-only extraction restriction. Manuscript, National University of Singapore.
- Erschler, David. 2012. Suspended affixation in Ossetic and the structure of the syntax-morphology interface. *Acta Linguistica Hungarica* 59. 153–175.
- Erteschik-Shir, Nomi. 2007. *Information structure: The syntax-discourse interface* Oxford Surveys in Syntax & Morphology. Oxford University Press.
- Evans, Nicholas & Stephen C. Levinson. 2009. The myth of language universals: Language diversity and its importance for cognitive science. *Behavioral and Brain Sciences* 32. 429–448.
- Everaert, Martin. 1991. Nominative anaphors in Icelandic: Morphology or syntax? In Werner Abraham, Wim Kosmeijer & Eric J. Reuland (eds.), *Issues in germanic syntax*, 277–305. Mouton de Gruyter.
- Ewing, Michael C. 2005. Colloquial Indonesian. In Alexander Adelaar & Nikolaus P. Himmelmann (eds.), *The Austronesian languages of Asia and Madagascar*, 227–258. Routledge.
- Falk, Yehuda N. 1984. The English auxiliary system: A Lexical-Functional analysis. *Language* 483–509.
- Falk, Yehuda N. 2001a. Constituent structure and grammatical functions in the Hebrew action nominal. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG01 conference*, CSLI Publications.
- Falk, Yehuda N. 2001b. *Lexical-Functional Grammar*. CSLI Publications.
- Falk, Yehuda N. 2006. *Subjects and universal grammar: An explanatory theory*. Cambridge University Press.
- Falk, Yehuda N. 2007. Constituent structure and GFs in the Hebrew nominal phrase. In Annie Zaenen, Jane Simpson, Tracy Holloway King, Jane Grimshaw, Joan Maling & Chris Manning (eds.), *Architectures, rules and preferences: A festschrift for Joan Bresnan*, 103–126. CSLI Publications.
- Faller, Martina. 2002. *Semantics and pragmatics of evidentials in Cuzco Quechua*: Stanford University dissertation.
- Fassi Fehri, Abdelkader. 1988. Agreement in Arabic, binding and coherence. In

- Michael Barlow & Charles Ferguson (eds.), *Agreement in natural language*, 107–158. CSLI Publications.
- Fassi Fehri, Abdelkader. 2016. Multiple facets of constructional Arabic gender and ‘Functional Universalism’ in the DP. In Eric Mathieu, Miryam Dali & Gita Zareikar (eds.), *Gender, noun classification, and determination*, 223–58. Oxford University Press.
- Fellbaum, Christiane. 1998. *WordNet: An electronic lexical database (language, speech, and communication)*. The MIT Press.
- Fillmore, Charles J. 1986. Pragmatically controlled zero anaphora. In *Proceedings of the twelfth annual meeting of the Berkeley Linguistics Society*, 95–107. Berkeley Linguistics Society.
- Fillmore, Charles J. 1988. The mechanisms of ‘construction grammar’. In *Proceedings of the 14th annual meeting of the Berkeley Linguistics Society*, 35–55. University of California, Berkeley.
- Fillmore, Charles J., Paul Kay & Mary Catherine O’Connor. 1988. Regularity and idiomaticity in grammatical constructions: The case of *let alone*. *Language* 64(3). 501–538.
- Findlay, Jamie Y. 2016. Mapping theory without argument structure. *Journal of Language Modelling* 4. 293–338.
- Findlay, Jamie Y. 2017. Multiword expressions and lexicalism. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG17 conference*, 209–229. CSLI Publications. <http://web.stanford.edu/group/cslipublications/cslipublications/LFG/LFG-2017/lfg2017-findlay.pdf>.
- Findlay, Jamie Y. 2019. Multiword expressions and the lexicon. D.Phil. thesis, University of Oxford. <https://ora.ox.ac.uk/objects/uuid:502e8ca5-02f7-4be4-8778-cd89364ba670>.
- Findlay, Jamie Y. 2020. Lexical Mapping Theory and the anatomy of a lexical entry. Presented at LFG20.
- Finkel, Raphael & Gregory Stump. 2013. PFME: A paradigm functional morphology engine. Published electronically.
- Fodor, Jerry A., Thomas G. Bever & Merrill F. Garrett. 1974. *The psychology of language: An introduction to psycholinguistics and generative grammar*. McGraw-Hill.
- Foley, William A. 2008. The place of Philippine languages in a typology of voice systems. In Peter K. Austin & Simon Musgrave (eds.), *Voice and grammatical relations in austronesian languages*, 22–44. CSLI Publications.
- Foley, William A. & Robert D. Van Valin. 1984. *Functional syntax and universal grammar*. Cambridge University Press.
- Fox, Danny. 2000. *Economy and semantic interpretation*. MIT Press.
- Frank, Anette & Annie Zaenen. 2000. Tense in LFG: Syntax and morphology. In Hans Kamp & Uwe Reyle (eds.), *Tense and aspect now: Contribu-*

- tions to the theory of tense and aspect in 1998 (Festschrift for Prof. Christian Rohrer), Niemeyer.
- Frank, Anette & Annie Zaenen. 2004. Tense in LFG: Syntax and morphology. In Louisa Sadler & Andrew Spencer (eds.), *Projecting morphology*, 23–66. CSLI Publications.
- Frege, Gottlob. 1892. Über Sinn und Bedeutung. *Zeitschrift für Philosophie und philosophische Kritik* 100. 25–50.
- Gagkaev, Konstantin E. 1952. *Očerki grammatiki osetinskogo jazyka*. Gosudarstvennoe izdatel'stvo Severo-Osetinskoi ASSR. A sketch grammar of Ossetic.
- Gambhir, Vijay. 1981. *Syntactic restrictions and discourse functions of word order in standard Hindi*: University of Pennsylvania dissertation.
- Gault, JoAnn Marie. 1999. *An ergative description of sama banginggi*. Linguistic Society of the Philippines.
- Gawron, Jean Mark. 2002. Two kinds of quantizers in DP. Presented at the 2002 Annual Meeting of the Linguistic Society of America.
- Gawron, Mark & Stanley Peters. 1990. *Anaphora and quantification in situation semantics*. CSLI Publications. CSLI Lecture Notes, Number 19.
- Geniušienė, Emma. 1987. *The typology of reflexives*. Walter de Gruyter.
- Gerds, Donna B. 1988. Antipassives and causatives in Ilokano: Evidence for an ergative analysis. In Richard McGinn (ed.), *Studies in austronesian linguistics*, 295–321. Ohio University Press.
- Giacolone Ramat, Anna & Paul J Hopper. 1998. Introduction. In Anna Giacolone Ramat & Paul J Hopper (eds.), *The limits of grammaticalization*, 1–11. John Benjamins.
- Gil, David. 2002. The prefixes *di-* and *N-* in Malay/Indonesian dialects. In Fay Wouk & Malcolm D Ross (eds.), *The history and typology of western austronesian voice systems*, 241–283. Pacific Linguistics.
- Girard, Jean-Yves. 1987. Linear logic. *Theoretical Computer Science* 50(1). 1–102. [https://doi.org/10.1016/0304-3975\(87\)90045-4](https://doi.org/10.1016/0304-3975(87)90045-4).
- Gisborne, Nikolas. 2010. *The event structure of perception verbs*. Oxford University Press.
- Givón, Talmy (ed.). 1994. *Voice and inversion, typological studies in language* 28. John Benjamins.
- Givón, Talmy. 2017. *The story of zero*. John Benjamins.
- Glendening, P. 1986. *Teach yourself icelandic*. E.U.P.
- Goldberg, Adele E. 1995. *Constructions: A construction grammar approach to argument structure*. University of Chicago Press.
- Goldberg, Adele E. 2006. *Constructions at work: The nature of generalization in language*. Oxford University Press.
- Greenberg, Joseph H. 1973. Numeral classifiers and substantival number: Prob-

- lems in the genesis of a linguistic type. *Working Papers on Language Universals* 9. 1–39.
- Greenberg, Joseph H. 1975. Dynamic aspects of word order in the numeral classifier. In Charles N Li (ed.), *Word order and word order change*, 27–45. University of Texas Press.
- Greenberg, Joseph H. 1990a. Dynamic aspects of word order in the numeral classifier. In Keith Denning & Suzanne Kemmer (eds.), *On language. selected writings by Joseph H Greenberg*, 227–240. Stanford University Press. Also 1975.
- Greenberg, Joseph H. 1990b. Numeral classifiers and substantival number: Problems in the genesis of a linguistic type. In Keith Denning & Suzanne Kemmer (eds.), *On language. selected writings by Joseph H Greenberg*, 166–193. Stanford University Press. Also 1973.
- Guéron, Jacqueline. 1985. Inalienable possession, PRO-inclusion and lexical chains. In Jacqueline Guéron, Hans-Georg Obenauer & Jean-Yves Pollock (eds.), *Grammatical representation*, 43–85. Foris.
- Guilfoyle, Eithne, Henrietta Hung & Lisa Travis. 1992. SPEC of IP and SPEC of VP: Two subjects in Austronesian languages. *Natural Language and Linguistic Theory* 10. 375–414.
- Halle, Morris & Alec Marantz. 1993. Distributed morphology and the pieces of inflection. In Kenneth Hale & Samuel Jay Keyser (eds.), *The view from Building 20: Essays in linguistics in honor of Sylvain Bromberger*, 111–176. MIT Press.
- Hallman, Peter. 2018. Double-object constructions in Syrian Arabic. *Syntax* 21(3). 238–274.
- Halvorsen, Per-Kristian. 1982. Lexical-Functional Grammar and order-free semantic composition. In Ján Horecký (ed.), *Proceedings of the 9th Conference on Computational Linguistics (COLING '82)*, 115–120. Academia Praha. <https://doi.org/10.3115/991813.991831>.
- Halvorsen, Per-Kristian. 1983. Semantics for Lexical-Functional Grammar. *Linguistic Inquiry* 14(4). 567–615. <https://www.jstor.org/stable/4178351>.
- Halvorsen, Per-Kristian & Ronald M. Kaplan. 1988. Projections and semantic descriptions in Lexical-Functional Grammar. In *Proceedings of the International Conference on Fifth Generation Computer Systems*, 1116–1122. Institute for New Generation Systems.
- Hardt, Daniel. 1990. A corpus-based survey of VP ellipsis. Unpublished manuscript, University of Pennsylvania.
- Hardt, Daniel. 1994. Sense and reference in dynamic semantics. In *Proceedings of the ninth amsterdam colloquium*, 333–348.
- Hardt, Daniel. 1999. Dynamic interpretation of verb phrase ellipsis. *Linguistics and Philosophy* 22. 187–221.

- Haspelmath, Martin. 1999. External possession in a European areal perspective. In Doris L. Payne & Immanuel Barshi (eds.), *External possession*, 109–135. John Benjamins.
- Haspelmath, Martin. 2007. Ditransitive alignment splits and inverse alignment. *Functions of Language* 14. 79–102.
- Haspelmath, Martin. 2010. Comparative concepts and descriptive categories in crosslinguistic studies. *Language* 86. 663–687.
- Haug, Dag T. T. 2014. Partial dynamic semantics for anaphora: Compositionality without syntactic coindexation. *Journal of Semantics* 31(4). 457–511. <https://doi.org/10.1093/jos/fft008>.
- Hautli, Annette, Sebastian Sulger & Miriam Butt. 2012. Adding an annotation layer to the Hindi/Urdu treebank. *Linguistic Issues in Language Technology (LiLT)* 7. 1–18.
- Hawkins, John A. 2004. *Efficiency and complexity in grammars*. Oxford University Press.
- Hayes, Bruce & Aditi Lahiri. 1991. Bengali intonational phonology. *Natural Language and Linguistic Theory* 9. 47–96.
- Heath, Jeffrey. 1975. Some functional relationships in grammar. *Language* 51. 89–104.
- Heim, Irene. 1998. Anaphora and semantic interpretation: A reinterpretation of Reinhart's approach. In *The interpretive tract*, 205–246. MIT Working Papers in Linguistics.
- Heine, Bernd. 1997. *Possession: Cognitive sources, forces, and grammaticalization*. Cambridge University Press.
- Heine, Bernd. 2003. Grammaticalization. In Brian Joseph & Richard Janda (eds.), *The handbook of historical linguistics*, 573–601. Blackwell.
- Heine, Bernd. 2011. Grammaticalization in African languages. In Heiko Narrog & Bernd Heine (eds.), *The Oxford handbook of grammaticalization*, 696–707. Oxford University Press.
- Hellan, Lars. 1988. *Anaphora in norwegian and the theory of grammar*. Foris.
- Heller, Daphna. 2002. Possession as a lexical relation: Evidence from the Hebrew construct state. In L. Mikkelsen & C. Potts (eds.), *Proceedings of the 21st WCCFL*, 127–140.
- Her, One-Soon & Chen-Tien Hsieh. 2010. On the semantic distinction between classifiers and measure words in Chinese. *Language and Linguistics* 11(3). 527–551.
- Heycock, Caroline. 1994. *Layers of predication*. Garland.
- Hilpert, Martin. 2005. The lexical category auxiliary in Sinhala. In Robert Englebretson & Carol Genetti (eds.), *Santa Barbara Papers in Linguistics Volume 17. Proceedings from the Workshop on Sinhala Linguistics*, 49–67. University of California, Santa Barbara.

- Himmelman, Nikolaus P. 2005. The Austronesian languages of Asia and Madagascar: Typological characteristics. In Alexander Adelaar & Nikolaus P. Himmelman (eds.), *The austronesian languages of asia and madagascar*, 110–181. Routledge.
- Honda, Masaru. 1984. On the syntax and semantics of numerals in English. *Journal of Osaka Jogakuin 2-year College* 14 97–115.
- Hopper, Paul J. 1991. On some principles of grammaticalization. In Elizabeth Closs Traugott & Bernd Heine (eds.), *Approaches to grammaticalization. Volume 2. Focus on types of grammatical markers*, 17–35. John Benjamins.
- Horn, Laurence. 1981. A pragmatic approach to certain ambiguities. *Linguistics and Philosophy* 4. 321–358.
- Howard, William A. 1980. The formulae-as-types notion of construction. In *To H. B. Curry: Essays on combinatory logic, lambda calculus, and formalism*, 479–490. Academic Press. Circulated in unpublished form from 1969.
- Hoyt, Frederick M. 2011. Noun phrase. In Edzard Lutz & Rudolf de Jong (eds.), *Encyclopedia of Arabic language and linguistics*, Brill.
- Hristov, Bozhil. 2011. Animacy and agreement with conjoined nouns in Bulgarian. In Z. Absi, M. Althobaiti, V. Heyer, M. Ogawa, C. Patterson & T. Soultatis (eds.), *Language at the university of essex (langue) 2010 proceedings*, 51–63. University of Essex.
- Hristov, Bozhil. 2012. *Agreement, case assignment and nominal coordination*: University of Oxford dissertation.
- Hristov, Bozhil. 2013. Defacing agreement. In Miriam Butt & Tracy Holloway King (eds.), *On-line proceedings of the LFG13 conference*, CSLI Publications.
- Hristov, Bozhil. 2021. A staggering ten doctoral dissertations: An LFG analysis of AANN constructions. This volume.
- Huddleston, Rodney & Geoffrey K. Pullum. 2002. *The Cambridge grammar of the English language*. Cambridge University Press.
- Hunter, Tim. 2019. What sort of cognitive hypothesis is a derivational theory of grammar? *Catalan Journal of Linguistics* 89–138.
- Hurst, Peter. 2012. *Reciprocation strategies and the syntax of reciprocal constructions*: The University of Melbourne dissertation.
- Ionin, Tania & Ora Matushansky. 2004. A singular plural. In Benjamin Schmeiser, Vineeta Chand, Ann Kelleher & Angelo Rodriguez (eds.), *Wecfl 23: Proceedings of the 23rd west coast conference on formal linguistics*, 101–114. Cascadilla Press.
- Ionin, Tania & Ora Matushansky. 2006. The composition of complex cardinals. *Journal of Semantics* 23. 315–360.
- Ionin, Tania & Ora Matushansky. 2018. *Cardinals: The syntax and semantics*

- of cardinal-containing expressions*. MIT Press.
- Jackendoff, Ray. 1977. *\bar{x} syntax: A study of phrase structure*. MIT Press.
- Jackendoff, Ray. 2002. *Foundations of language: Brain, meaning, grammar, evolution*. Oxford University Press.
- Jackendoff, Ray. 2007. *Language, consciousness, culture: Essays on mental structure*. MIT Press.
- Johannessen, Janne Bondi. 1998. *Coordination*. Oxford University Press.
- Johnson, Mark. 1988. *Attribute-value logic and the theory of grammar*. CSLI Publications.
- Kalouli, Aikaterini-Lida & Richard Crouch. 2018. GKR: The Graphical Knowledge Representation for semantic parsing. In *Proceedings of the workshop on computational semantics beyond events and roles*, 27–37. Association for Computational Linguistics.
- Kalouli, Aikaterini-Lida, Richard Crouch & Valeria dePaiva. 2019. GKR: Bridging the gap between symbolic/structural and distributional meaning representations. In *Proceedings of the first international workshop on designing meaning representations*, 44–55. Association for Computational Linguistics.
- Kanda, Yukihiro & Masatoshi Honda. 2018. A predication approach to copy raising from the perspective of evidentiality. *Tsukuba English Studies* 37. 141–155.
- Kaplan, Ronald M. 1987. Three seductions of computational psycholinguistics. In Peter Whitelock, Mary McGee Wood, Harold L. Somers, Rod Johnson & Paul Bennet (eds.), *Linguistics and computer applications*, 149–188. Academic Press.
- Kaplan, Ronald M. 1989a. The formal architecture of Lexical-Functional Grammar. In Chu-Ren Huang & Keh-Jiann Chen (eds.), *Proceedings of ROCLING II*, 3–18.
- Kaplan, Ronald M. 1989b. The formal architecture of Lexical-Functional Grammar. *Journal of Information Science and Engineering* 5(4). 305–322.
- Kaplan, Ronald M. 1995. The formal architecture of Lexical-Functional Grammar. In Mary Dalrymple, Ronald M. Kaplan, John T. Maxwell, III, & Annie Zaenen (eds.), *Formal issues in Lexical-Functional Grammar*, 7–28. CSLI Publications.
- Kaplan, Ronald M. 2017. Preserving grammatical functions in LFG. *Bergen Language and Linguistics Studies* 8. 127–142.
- Kaplan, Ronald M. & Joan Bresnan. 1982. Lexical-Functional Grammar: A formal system for grammatical representation. In Joan Bresnan (ed.), *The mental representation of grammatical relations*, 173–281. MIT Press.
- Kaplan, Ronald M. & John T. Maxwell, III. 1996. LFG: Grammar Writer's Workbench. Tech. rep. Xerox Corporation. Version 3.1.

- Kaplan, Ronald M, John T Maxwell III, Tracy Holloway King & Richard Crouch. 2004. Integrating finite-state technology with deep LFG grammars. In Erhard Hinrichs & Kiril Simov (eds.), *Proceedings of the workshop on combining shallow and deep processing for nlp (esslli)*, 11–20.
- Kaplan, Ronald M. & Jürgen Wedekind. 1993. Restriction and correspondence-based translation. In *Proceedings of the 6th conference of the european chapter of the association for computational linguistics (EACL 1993)*, 193–202.
- Kaplan, Ronald M. & Jürgen Wedekind. 2020. Zipper-driven parsing for LFG grammars. Talk delivered at the 2020 LFG Conference.
- Kaplan, Ronald M. & Annie Zaenen. 1989. Long-distance dependencies, constituent structure, and functional uncertainty. In Mark Baltin & Anthony Kroch (eds.), *Alternative conceptions of phrase structure*, 17–42. University of Chicago Press.
- Karlsson, Fred. 2009. Origin and maintenance of embedding clausal complexity. In Geoffrey Sampson, David Gil & Peter Trudgill (eds.), *Language complexity as an evolving variable*, 192–202. Oxford University Press.
- Karlsson, Fred. 2010. Syntactic recursion and iteration. In Harry van der Hulst (ed.), *Recursion in human language*, 43–68. Mouton de Gruyter.
- Katz, Jerrold J. 1972. *Semantic theory*. Harper and Row.
- Katz, Jerrold J. & Paul M. Postal. 1964. *An integrated theory of linguistic descriptions*. MIT Press.
- Kaufman, Daniel. 2009. Austronesian typology and the nominalist hypothesis. In Alexander Adelaar & Andrew Pawley (eds.), *Austronesian historical linguistics and culture history: A festschrift for robert blust*, Pacific Linguistics.
- Kay, Paul & Charles J. Fillmore. 1999. Grammatical constructions and linguistic generalizations: The *what's x doing y?* construction. *Language* 75. 1–33.
- Kayne, Richard. 1999. Prepositional complementizers as attractors. *Probus* 11. 39–73.
- Keach, Camillia N. & Michael Rochemont. 1992. On the syntax of possessor raising in Swahili. *Studies in African Linguistics* 23. 81–105.
- Keenan, Caitlin. 2013. A pleasant three days in Philadelphia: Arguments for a pseudopartitive analysis. In *University of pennsylvania working papers in linguistics*, vol. 19, 87–96. University of Pennsylvania.
- Keenan, Ed. 1971. Names, quantifiers, and a solution to the sloppy identity problem. *Papers in Linguistics* 4. 211–232.
- Keenan, Edward L. 1976. Towards a universal definition of 'subject'. In Charles N. Li (ed.), *Subject and topic*, 303–333. Academic Press.
- Keenan, Edward L. & Bernard Comrie. 1977. Noun phrase accessibility and universal grammar. *Linguistic Inquiry* 8. 63–99.
- Keenan, Edward L. & Bernard Comrie. 1979. Data on the noun phrase acces-

- sibility hierarchy. *Language* 55. 333–351.
- Kehler, Andrew. 1993a. A discourse copying algorithm for ellipsis and anaphora resolution. In *Proceedings of the sixth conference of the european chapter of the association for computational linguistics (eacl-93)*, 203–212.
- Kehler, Andrew. 1993b. The effect of establishing coherence in ellipsis and anaphora resolution. In *Proceedings of the 31st conference of the association for computational linguistics (acl-93)*, 62–69.
- Kehler, Andrew. 2000. Coherence and the resolution of ellipsis. *Linguistics and Philosophy* 23. 533–575.
- Kertz, Laura. 2013. Verb phrase ellipsis: The view from information structure. *Language* 89. 390–428.
- Keshet, Ezra. 2018. Counterexamples to Dahl’s “many pronouns” puzzle. Presented at the Annual Meeting of the Linguistic Society of America.
- Khan, Sameer ud Dowla. 2014. The intonational phonology of Bangladeshi Standard Bengali. In Sun-Ah Jun (ed.), *Prosodic typology ii: The phonology of intonation and phrasing*, 81–117. Oxford University Press.
- Kibort, Anna. 2007. Extending the applicability of Lexical Mapping Theory. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG07 conference*, 250–270. CSLI Publications. <http://www.stanford.edu/group/cslipublications/cslipublications/LFG/12/papers/lfg07kibort.pdf>.
- Kibort, Anna. 2014. Mapping out a construction inventory with (Lexical) Mapping Theory. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG14 conference*, 262–282. CSLI Publications. <http://web.stanford.edu/group/cslipublications/cslipublications/LFG/19/papers/lfg14kibort.pdf>.
- Kidwai, Ayesha. 2000. *XP-adjunction in universal grammar: Scrambling and binding in Hindi-Urdu*. Oxford University Press.
- Kilgarriff, Adam, Vít Baisa, Jan Bušta, Miloš Jakubíček, Vojtěch Kovář, Jan Michelfeit, Pavel Rychlý, & Vít Suchomel. 2014. The Sketch Engine: Ten years on. *Lexicography* 1. 7–36.
- Kilgarriff, Adam, Pavel Rychly, Pavel SmrÅ¾ & David Tugwell. 2008. The Sketch Engine. In T. Fontenelle (ed.), *Practical lexicography. A reader*, 297–306. Oxford University Press.
- Kim, Jong-Bok. 2014. English copy raising constructions: Argument realization and characterization condition. *Linguistics* 52(1). 167–203.
- Kim, Ronald. 2003. On the historical phonology of Ossetic: The origin of the oblique case suffix. *Journal of the American Oriental Society* 123.1. 43–72.
- King, Paul John. 1989. *A logical formalism for Head-driven Phrase Structure Grammar*: University of Manchester dissertation.
- King, Paul John. 1994. *An expanded logical formalism for Head-driven Phrase Structure Grammar*. Arbeitspapiere des Sonderforschungsbereichs 340 Bericht Nr. 59, Seminar für Sprachwissenschaft, Universität Tübingen.

- King, Tracy Holloway & Mary Dalrymple. 2004. Determiner agreement and noun conjunction. *Journal of Linguistics* 40. 69–104.
- Kokkonidis, Miltiadis. 2008. First-order Glue. *Journal of Logic, Language and Information* 17(1). 43–68.
- Kordoni, Valia. 2004. Modern Greek ditransitives in LMT. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of LFG04*, 307–312. CSLI Publications.
- Koring, Loes. 2013. *Seemingly similar: Subjects and displacement in grammar, processing, and acquisition*: Utrecht University dissertation.
- Koumbarou, Andriana. 2020. *The expression of focus in Hindi: A dynamic syntax approach*: SOAS dissertation. Forthcoming.
- Kratzer, Angelika. 1996. Severing the external argument from its verb. In Johan Rooryck & Laurie Zaring (eds.), *Phrase structure and the lexicon*, 109–137. Springer.
- Kremers, Joost. 2003. *The Arabic noun phrase: A Minimalist approach*: University of Utrecht dissertation.
- Krifka, Manfred. 2008. Basic notions of information structure. *Acta Linguistica Hungarica* 55. 243–276.
- Kroeger, Paul R. 1993a. Another look at subjecthood in Tagalog. *Philippine Journal of Linguistics* 24. 1–15.
- Kroeger, Paul R. 1993b. *Phrase structure and grammatical relations in tagalog*. CSLI Publications.
- Krötzsch, Markus, Frederick Maier, Adila Krisnadhi & Pascal Hitzler. 2011. A better uncle for OWL: nominal schemas for integrating rules and ontologies. In *Proceedings of the 20th international conference on world wide web (www'11)*, 645–654. ACM.
- Kuang, Jianjing. 2017. Covariation between voice quality and pitch: Revisiting the case of Mandarin creaky voice. *The Journal of the Acoustical Society of America* 142. 1693–1706.
- Kuhn, Jonas. 2003. *Optimality-theoretic syntax: A declarative approach*. CSLI Publications.
- Kuhn, Jonas & Louisa Sadler. 2007. Single conjunct agreement and the formal treatment of coordination in LFG. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG07 conference*, 302–322. CSLI Publications.
- Kulikov, Leonid. 2011. Voice typology. In Jae J. Song (ed.), *The oxford handbook of linguistic typology*, 368–398. Oxford University Press.
- Laczkó, Tibor. 2004. Grammatical functions, LMT, and control in the Hungarian DP revisited. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG04 conference*, 313–333. CSLI Publications.
- Laczkó, Tibor & György Rákosi. 2004. Pronominal possessors and syntactic functions in the Hungarian possessive noun phrase. In Miriam Butt &

- Tracy Holloway King (eds.), *Proceedings of the LFG19 conference*, 149–169. CSLI Publications.
- Ladd, D. Robert. 2008. *Intonational phonology*. Cambridge University Press 2nd edn.
- Lahiri, Aditi & Holly Kennard. 2020. The Indian subcontinent. In Carlos Gussenhoven & Aoju Chen (eds.), *The oxford handbook of prosody*, Oxford University Press. Chapter 20.
- Lakoff, George. 1970. Global rules. *Language* 46. 627–639.
- Lambrecht, Knud. 1994. *Information structure and sentence form: Topic, focus and the mental representations of discourse referents* (Cambridge Studies in Linguistics 71). Cambridge University Press.
- Landau, Idan. 2011. Predication vs. aboutness in copy raising. *Natural Language and Linguistic Theory* 29. 779–813.
- Langendoen, D. Terrence. 1978. The logic of reciprocity. *Linguistic Inquiry* 9. 69–104.
- Lasnik, Howard & Joseph Kupin. 1977. A restrictive theory of transformational grammar. *Theoretical Linguistics* 4. 173–196. Reprinted, with minor revisions, in Lasnik (1990) *Essays on Restrictiveness and Learnability*, Kluwer Academic Publishers.
- Lazard, Gilbert. 2002. Transitivity revisited as an example of a more strict approach in typological research. *Folia Linguistica* 36. 141–190.
- Leben, William. 1973. *Suprasegmental phonology*: Massachusetts Institute of Technology dissertation.
- Ledgeway, Adam. 2011. Adverb agreement and split intransitivity: Evidence from southern Italy. *Archivio Glottologico Italiano* 96. 31–66.
- Ledgeway, Adam. 2016. Parameters in Romance adverb agreement. In Martin Hummel & Salvador Valera (eds.), *Adjective–adverb interfaces in Romance*, Benjamins.
- Lee-Schoenfeld, Vera & Gabriele Diewald. 2014. The pragmatics and syntax of German inalienable possession constructions. In *Annual meeting of the berkeley linguistics society*, vol. 40, 286–310.
- Lesage, Claire, Nalini Ramlakhan, Ida Toivonen & Chris Wildman. 2015. The reliability of testimony and perception: Connecting epistemology and linguistic evidentiality. In D.C. Noelle, R. Dale, A.S. Warlaumont, J. Yoshimi, T. Matlock, C.D. Jennings & P. P. Maglio (eds.), *Proceedings of the 37th annual meeting of the cognitive science society*, 1302–1307. Cognitive Science Society.
- Levin, Beth. 1993. *English verb classes and alternations: A preliminary investigation*. University of Chicago Press.
- Levin, Beth & Malka Rappaport Hovav. 1995. *Unaccusativity: At the syntactical semantics interface*. MIT Press.

- Li, XuPing. 2011. *On the semantics of classifiers in Chinese*: Bar-Ilan University dissertation.
- Li, XuPing. 2013. *Numeral classifiers in Chinese: The syntax-semantics interface*. De Gruyter.
- Liao, Gwen Wei-Tai. 2010. *An LFG account of empty pronouns in Mandarin Chinese*: University of Oxford dissertation. D.Phil. thesis.
- Lødrup, Helge. 1999. Inalienables in Norwegian and binding theory. *Linguistics* 37. 365–388.
- Lødrup, Helge. 2000. Underspecification in Lexical Mapping Theory: The case of Norwegian existentials and resultatives. In Miriam Butt & Tracey Holloway King (eds.), *Argument realization*, 171–188. CSLI Publications.
- Lødrup, Helge. 2007. A new account of simple and complex reflexives. *Journal of Comparative Germanic Linguistics* 10. 183–201.
- Lødrup, Helge. 2010. Implicit possessives and reflexive binding in Norwegian. *Transactions of the Philological Society* 108. 89–109.
- Lødrup, Helge. 2018. Prominent internal possessors and backward possessor raising: Norwegian *ryggen på ham* ‘the back on him’. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG18 conference*, 248–67. CSLI Publications.
- Longobardi, Giuseppe. 2001. The structure of DPs: Principles, parameters and problems. In Mark Baltin & Chris Collins (eds.), *Handbook of syntactic theory*, 562–603. Blackwell.
- Lovestrand, Joseph. 2018. *Serial verb constructions in Barayin: Typology, description and Lexical-Functional Grammar*: University of Oxford dissertation. D.Phil. thesis.
- Lovestrand, Joseph. 2020. F-structure and s-structure of Urdu complex predicates. Presented at Lexical-Functional Grammar 2020.
- Lowe, John J. 2014. Gluing meanings and semantic structures. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG14 conference*, 387–407. CSLI Publications.
- Lowe, John J. 2015. Complex predicates: An LFG + Glue analysis. *Journal of Language Modelling* 3(2). 413–462. <http://jlm.ipipan.waw.pl/index.php/JLM/article/view/125/116>.
- Lowe, John J. 2016. English possessive 's: Clitic AND affix. *Natural Language and Linguistic Theory* 34. 157–195.
- Lowe, John J. 2019. Argument alternations in complex predicates: An LFG+Glue perspective. *Linguistic Issues in Language Technology* 17. 1–16.
- Lowe, John J. 2020. Mixed projections and syntactic categories. *Journal of Linguistics* 56. 315–357.
- Lowe, John J. & Ali H. Birahimani. 2019. The argument structure of Siraiiki

- causatives. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG19 conference*, 191–211. CSLI Publications.
- Lowe, John J. & Joseph Lovestrand. 2020. Minimal phrase structure: A new formalized theory of phrase structure. *Journal of Language Modelling* 8. 1–51.
- Lundin, Katarina. 2003. *Small clauses in Swedish: Towards a unified account*: Lund University dissertation.
- Luo, Qiongpeng, Miao-Ling Hsieh & Dingxu Shi. 2017. Pre-classifier adjectival modification in Mandarin Chinese: A measurement-based analysis. *Journal of East Asian Linguistics* 26. 1–36.
- Lutz, Uli, Gereon Müller & Arnim von Stechow (eds.). 2000. *Wh-scope marking*. John Benjamins.
- Lyons, John. 1977. *Semantics*, vol. II. Cambridge University Press.
- Macdonald, R. Ross & Soenjono Dardjowidjojo. 2001. *A student's reference grammar of modern formal Indonesian*. Georgetown University Press.
- Mack, Jennifer Elaine. 2010. *Information structure and the licensing of English subjects*: Yale University dissertation.
- Maekawa, Takafumi. 2013. An HPSG analysis of 'a beautiful two weeks'. *Linguistic Research* 30. 407–433.
- Magidor, Ofra. 2013. *Category mistakes*. Oxford University Press.
- Mahajan, Anoop. 2000. Towards a unified treatment of wh-expletives in Hindi and German. In Uli Lutz, Gereon Müller & Arnim von Stechow (eds.), *Wh-scope marking*, John Benjamins.
- Manning, Christopher D. 1996. *Ergativity: Argument structure and grammatical relations*. CSLI Publications.
- Manning, Christopher D. & Ivan A. Sag. 1998. Argument structure, valence, and binding. *Nordic Journal of Linguistics* 21. 107–144.
- Marcotte, Jean-Philippe. 2014. Syntactic categories in the correspondence architecture. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG14 conference*, CSLI Publications.
- Marr, David. 1982. *Vision: A computational investigation into the human representation and processing of visual information*. W.H. Freeman.
- Martin, Peter W. 1996. A comparative ethnolinguistic survey of the Murut (Lun Bawang) with special reference to Brunei. In Peter W. Martin, Conrad Ozzóg & Gloria Poedjosoedarmo (eds.), *Language use and language change in brunei darussalam*, 268–279. Ohio University Press.
- Maxwell, III, John T. & Ronald M. Kaplan. 1996. An efficient parser for LFG. In *Proceedings of the first LFG conference*, .
- McCune, Keith. 1979. Passive function and the Indonesian passive. *Oceanic Linguistics* 18. 119–169.
- Merchant, Jason. 2004. A deletion solution to the sloppy ellipsis puzzle. Pre-

- sented at the 75th Annual Meeting of the Linguistic Society of America.
- Michaels, Jennifer Marie & Catherine E. Nelson. 2004. A preliminary investigation of intonation in East Bengali. Unpublished manuscript, University of California Los Angeles.
- Mohanan, Tara. 1994. *Argument structure in Hindi*. CSLI Publications.
- Montague, Richard. 1970. Pragmatics and intensional logic. *Synthese* 22. 68–94.
- Mortelmans, Tanja. 2016. Indirect evidentiality in Dutch and German: A contrastive corpus study of the *seem*-type verbs *schijnen* and *scheinen*. *Kalbotyra* 69. 121–152.
- Müller, Stefan. 2018. *A lexicalist account of argument structure: Template-based phrasal LFG approaches and a lexical HPSG alternative* (Conceptual Foundations of Language Science 2). Language Science Press. <http://langsci-press.org/catalog/book/163>.
- Munn, Alan B. 1993. *Topics in the syntax and semantics of coordinate structures*: University of Maryland dissertation.
- Murray, Sarah E. 2010. *Evidentiality and the structure of speech acts*: Rutgers University dissertation.
- Musgrave, Simon. 2001. *Non-subject arguments in Indonesian*: Melbourne University dissertation.
- Mycock, Louise. 2006. *The typology of constituent questions: A Lexical-Functional Grammar analysis of 'wh'-questions*: University of Manchester dissertation.
- Mycock, Louise. 2009. 'What do you do?': Variation in interrogative predicates. Paper presented at the workshop 'Blurring component boundaries: levels of analysis or growth of information?', at the LFG14 Conference.
- Mycock, Louise. 2020. The intonation of the q-marking construction: A comparison of Hungarian and Slovenian. *Journal of Linguistics* 56. 359–397.
- Mycock, Louise & John Lowe. 2013. The prosodic marking of discourse functions. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG13 conference*, 440–460. CSLI Publications.
- Myhill, John. 1988. Agent incorporation in Indonesian. *Journal of Linguistics* 24. 111–136.
- Nairn, Rowan, Cleo Condoravdi & Lauri Karttunen. 2006. Computing relative polarity for textual inference. In *Proceedings of the inference in computational semantics conference (icos-5)*, 20–41.
- Ohna, Tsutomu. 2003. A beautiful two weeks: Its syntactic structure and the semantic relations of the adjective to the numeral and head noun. In S. Chiba et al. (ed.), *Empirical and theoretical investigations into language*, 23–40. Kaitakusha.
- Ouwayda, Sarah. 2012. On construct state nominals: Evidence for a predi-

- cate approach. In Ghil'ad Zuckermann (ed.), *Burning issues in Afro-Asiatic linguistics*, 75–90. Cambridge Scholars Publishing.
- Owens, Jonathan. 1985. *A grammar of harar oromo (northeastern ethiopia)* (Kuschitische Sprachstudien 4). Helmut Buske Verlag.
- de Paiva, Valeria, Daniel G Bobrow, Cleo Condoravdi, Dick Crouch, Rowan Nairn & Annie Zaenen. 2007. Textual Inference Logic: Take two. In *Proceedings of the international workshop on contexts and ontologies: Representation and reasoning (c&o:rr) collocated with the 6th international and interdisciplinary conference on modelling and using context (context-2007)*, .
- Park, Chongwon & Daniel Turner. 2017. When Richard met CG: Reference-point and English copy-raising. *Language and Cognition* 9. 473–500.
- Partee, Barbara. 1989. Deictic and anaphoric pieces of meaning. LSA Conference on Logic and Linguistics, Santa Cruz.
- Patejuk, Agnieszka. 2015. *Unlike coordination in Polish: An LFG account*: Instytut Języka Polskiego PAN, Cracow dissertation.
- Patejuk, Agnieszka & Adam Przepiórkowski. 2014. Structural case assignment to objects in Polish. In Miriam Butt & Tracy Holloway King (eds.), *The proceedings of the LFG14 conference*, 429–447. CSLI Publications.
- Patejuk, Agnieszka & Adam Przepiórkowski. 2016. Reducing grammatical functions in Lexical Functional Grammar. In Doug Arnold, Miriam Butt, Berthold Crysmann, Tracy Holloway King & Stefan Müller (eds.), *The proceedings of the joint 2016 conference on Head-driven Phrase Structure Grammar and Lexical Functional Grammar*, 541–559. CSLI Publications.
- Paul, Ileana. 2010a. Subjects: Grammatical relations, grammatical functions and functional categories. *Language and Linguistics Compass* 4. 890–902.
- Paul, Waltraud. 2005. Adjectival modification and related issues in Mandarin Chinese. *Linguistics* 43(4). 757–793.
- Paul, Waltraud. 2010b. Adjectives in Mandarin Chinese: The rehabilitation of a much ostracized category. In Cabredo Hofherr Patricia & Ora Matushansky (eds.), *Adjectives: Formal analyses in syntax and semantics*, John Benjamins.
- Payne, Thomas E. 1982. Role and reference related subject properties and ergativity in Yup'ik Eskimo and Tagalog. *Studies in Language* 6. 75–106.
- Peacocke, C.M. 1986. Explanation in computational psychology: Language, perception and level 1.5. *Mind and Language* 1. 101–123.
- Peacocke, C.M. 1989. When is a grammar psychologically real? In A. George (ed.), *Reflections on Chomsky*, 111–130. Blackwell.
- Pearson, Matthew. 2005. The Malagasy subject/topic as an A'-element. *Natural Language and Linguistic Theory* 23. 381–457.
- Perlmutter, David M. 1971. *Deep and surface structure constraints in syntax*.

- Holt, Rinehart and Winston.
- Perlmutter, David M. 1983. *Studies in relational grammar i*. University of Chicago Press.
- Peterson, Peter G. 2004. Coordination: Consequences of a lexical-functional account. *Natural Language and Linguistic Theory* 22. 643–679.
- Peyraube, Alain. 1991. Some remarks on the history of Chinese classifiers. In Patricia M Clancy & Sandra A Thompson (eds.), *Santa Barbara Paper in Linguistics, Volume 3: Asian discourse and grammar*, 106–126. Department of Linguistics, University of California, Santa Barbara.
- Peyraube, Alain. 1998. On the history of classifiers in Archaic and Medieval Chinese. In Benjamin K. T'sou (ed.), *Studia Linguistica Serica*, 131–145. Language Information Sciences Research Centre, City University of Hong Kong.
- Pierrehumbert, Janet. 1980. *The phonetics and phonology of english intonation*: Massachusetts Institute of Technology dissertation.
- Plank, Frans. 2008. Thoughts on the origin, progress, and pronominal status of reciprocal forms in Germanic, occasioned by those of Bavarian. In E. König & V. Gast (eds.), *Reciprocals and reflexives: Cross-linguistic and theoretical explorations*, 347–374. de Gruyter.
- Plath, Warren. 1973. Transformational grammar and transformational parsing in the REQUEST system. In *COLING 1973 volume 2: Computational and mathematical linguistics: Proceedings of the international conference on computational linguistics*, .
- Pollard, Carl & Ivan A. Sag. 1994. *Head-driven Phrase Structure Grammar*. University of Chicago Press.
- Poortvliet, Marjolein. 2016. Copy raising in English, German, and Dutch: Synchrony and diachrony. *Journal of Germanic Linguistics* 28(4). 370–402.
- Postal, Paul M. 1970. On the surface verb 'remind'. *Linguistic Inquiry* 1. 37–120.
- Postal, Paul M. 1971. *Crossover phenomena*. Holt, Rinehart and Winston.
- Postal, Paul M. 1974. *On raising: One rule of English grammar and its theoretical implications*. MIT Press.
- Potsdam, Eric. 2006. The cleft structure of Malagasy wh-questions. In Hans-Martin Gärtner, Paul Law & Joachim Sabel (eds.), *Clause structure and adjuncts in austronesian languages*, 195–232. Mouton de Gruyter.
- Potsdam, Eric & Jeffrey T. Runner. 2002. Richard returns: Copy raising and its implications. In Mary Andronis, Chris Ball, Heidi Elston & Sylvain Neuvel (eds.), *CLS 37: The main session*, vol. 1, 453–468. Chicago Linguistic Society.
- Preminger, Omer. 2019. What the PCC tells us about “abstract” agreement, head movement, and locality. *Glossa* 13. 1–42.

- Przepiórkowski, Adam. 1999. *Case assignment and the complement-adjunct dichotomy: A non-configurational constraint-based approach*: Universität Tübingen dissertation.
- Przepiórkowski, Adam. 2000. Long distance genitive of negation in Polish. *Journal of Slavic Linguistics* 8. 151–189.
- Przepiórkowski, Adam. 2017. Hierarchical lexicon and the argument/adjunct distinction. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG17 conference*, 348–367. CSLI Publications.
- Przepiórkowski, Adam, Mirosław Bańko, Rafał L. Górski & Barbara Lewandowska-Tomaszczyk (eds.). 2012. *Narodowy korpus języka polskiego*. Wydawnictwo Naukowe PWN.
- Przepiórkowski, Adam, Mirosław Bańko, Rafał L. Górski, Barbara Lewandowska-Tomaszczyk, Marek Łaziński & Piotr Pęzik. 2011. National corpus of Polish. In Z. Vetulani (ed.), *Proceedings of the 5th language and technology conference: Human language technologies as a challenge for computer science and linguistics*, 259–263.
- Przepiórkowski, Adam & Agnieszka Patejuk. 2012. On case assignment and the coordination of unlikes: The limits of distributive features. In Miriam Butt & Tracy Holloway King (eds.), *The proceedings of the LFG12 conference*, 479–489. CSLI Publications.
- Pullum, Geoffrey K. 1982. Syncategorematicity and English infinitival *to*. *Glossa* 16. 181–215.
- Pullum, Geoffrey K. 2013. The central question in comparative syntactic metatheory. *Mind and Language* 28(4). 492–521.
- Pullum, Geoffrey K. & Barbara C. Scholz. 2001. On the distinction between model-theoretic and generative-enumerative syntactic frameworks. In Philippe de Groote, Glyn Morrill & Christian Retoré (eds.), *Logical aspects of computational linguistics (LACL 2001)* (Lecture Notes in Computer Science 2099), 17–43. Springer.
- Purwo, Bambang Kaswanti. 1989. Voice in Indonesian: A discourse study. In B.K. Purwo (ed.), *Serpih -serpih telaah pasif bahasa indonesia*, 344–442. Kanisius.
- Purwo, Bambang Kaswanti. 1995. The two proto-types of ditransitive verbs: The Indonesian evidence. In Werner Abraham, Talmy Givon & Sandra A Thompson (eds.), *Discourse grammar and typology*, 77–99. John Benjamins Publishing Company.
- Quirk, Randolph, Sidney Greenbaum, Geoffrey Leech & Jan Svartvik. 1985. *A comprehensive grammar of the english language*. Longman.
- Rackowski, Andrea & Norvin Richards. 2005. Phase edge extraction: A Tagalog case study. *Linguistic Inquiry* 36. 565–599.
- Rappaport Hovav, Malka & Beth Levin. 2007. Deconstructing thematic hi-

- erarchies. In Annie Zaenen, Jane Simpson, Tracy Holloway King, Jane Grimshaw, Joan Maling & Christopher Manning (eds.), *Architectures, rules, and preferences: Variations on themes by joan w. bresnan*, 385–402. CSLI Publications.
- Raza, Ghulam. 2010. Analyzing the structure of Urdu NPs with multiple genitives. In *Proceedings of the conference on language and technology 2010 (clt10)*, National Language Authority, Islamabad.
- Rett, Jessica & Nina Hyams. 2014. The acquisition of syntactically encoded evidentiality. *Language Acquisition* 21. 173–198.
- Richards, Norvin. 2000. Another look at Tagalog subjects. In Ileana Paul, Vivianne Phillips & Lisa Travis (eds.), *Formal issues in austronesian linguistics*, 105–116. Springer.
- Richter, Frank. 2004. *A mathematical formalism for linguistic theories with an application in Head-Driven Phrase Structure Grammar*. Universität Tübingen dissertation. Defended in 2000.
- Riesberg, Sonja. 2014. *Symmetrical voice and linking in western austronesian languages*. De Gruyter Mouton. Pacific Linguistics.
- Rizzi, Luigi. 1997. The fine structure of the left periphery. In Liliane Haegeman (ed.), *Elements of grammar*, 281–337. Kluwer.
- Rogers, Andy. 1971. Three kinds of physical perception verbs. In *Papers from the seventh regional meeting of the Chicago Linguistic Society*, 206–222.
- Rogers, Andy. 1972. Another look at flip perception verbs. In *Papers from the eighth regional meeting of the Chicago Linguistic Society*, 303–315.
- Rogers, Andy. 1973. *Physical perception verbs in English: A study in lexical relatedness*. UCLA dissertation.
- Rooth, Mats. 1992. Ellipsis redundancy and reduction redundancy. In S. Berman & A. Hestvik (eds.), *Proceedings of the stuttgart workshop on ellipsis: Arbeitspapiere des sonderforschungsbereich 340, bericht nr. 29-1992, sfb 340*, University of Stuttgart, University of Tuebingen, and IBM Germany.
- Rosén, Victoria & Koenraad De Smedt (eds.). 2017. *The very model of a modern linguist*. University of Bergen Library.
- Roy, Isabelle & Peter Svenonius. 2009. Complex prepositions. In Jacques François, Éric Gilbert, Claude Guimier & Maxi Krause (eds.), *Autour de la préposition*, 105–116. Presses Universitaires de Caen.
- Rudolph, Rachel Etta. 2019a. A closer look at the perceptual source in copy raising constructions. In *Proceedings of the sinn und bedeutung 23*, vol. 2, 287–304. Universitat Autònoma de Barcelona.
- Rudolph, Rachel Etta. 2019b. *Talking about appearances: Experience, evaluation and evidence in discourse*. UC Berkeley dissertation.
- Ryding, Karin. 2005. *A reference grammar of Modern Standard Arabic*. Cambridge University Press.

- Sadler, Louisa. 2000. Noun Phrase structure in Welsh. In Miriam Butt & Tracy Holloway King (eds.), *Argument realization*, 73–110. CSLI Publications.
- Sadler, Louisa. 2019. Multiple controllers in nominal modification. *Argumentum* 15. 617–638.
- Sadock, Jerrold M. 1991. *Autolexical syntax. a theory of parallel grammatical representations*. The University of Chicago Press.
- Sag, Ivan. 1976. *Deletion and logical form*: Massachusetts Institute of Technology dissertation.
- Sag, Ivan A., Gerald Gazdar, Thomas Wasow & Steven Weisler. 1985. Coordination and how to distinguish categories. *Natural Language and Linguistic Theory* 3. 117–171.
- Saraswat, Vijay. 1999. LFG as concurrent constraint programming. In Mary Dalrymple (ed.), *Semantics and syntax in Lexical Functional Grammar: The resource logic approach*, 281–318. MIT Press.
- Schachter, Paul. 1976. The subject in Philippine languages: Topic, actor, actor-topic, or none of the above? In Charles N. Li (ed.), *Subject and topic*, 491–518. Academic Press.
- Schachter, Paul. 1996. The subject in Tagalog: Still none of the above. In *Ucla occasional papers in linguistics* 15, 1–61.
- Schiebe, Traugott. 1973. Zum problem der grammatisch relevanten identität. In F. Kiefer & N. Ruwet (eds.), *Generative grammar in europe*, 482–527. D. Reidel Publishing Company.
- Schlenker, Philippe. 2005. Non-redundancy: Towards a semantic reinterpretation of binding theory. *Natural Language Semantics* 13. 1–92.
- Schwarz, Bernhard. 2000. *Topics in ellipsis*: University of Massachusetts dissertation.
- Selkirk, Elisabeth. 1984. *Phonology and syntax: The relation between sound and structure*. MIT Press.
- Sells, Peter. 1988. Thematic and grammatical hierarchies: Albanian reflexivization. In *Proceedings of the seventh west coast conference on formal linguistics*, .
- Shan, Chung-chieh. 2004. Binding alongside Hamblin alternatives calls for variable-free semantics. In *Proceedings of the 14th conference on semantics and linguistic theory (SALT-14)*, 289–304. CLC Publications.
- Shanon, Benny. 1976. Semantic and syntactic features in the context of dreams. *Linguistic Inquiry* 7. 518–519.
- Siddiqi, Daniel. 2019. Distributed morphology. In Jenny Audring & Francesca Masini (eds.), *The Oxford handbook of morphological theory*, 143–165. Oxford University Press.
- Sigurðsson, Halldór Ármann. 2004. Icelandic non-nominative subjects: Facts

- and implications. In Peri Bhaskararao & Karumuri Venkata Subbarao (eds.), *Non-nominative subjects*, 137–159. John Benjamins.
- Silvestri, Giuseppina. 2016. Adverb agreement in the dialects of the Lausberg area. In Martin Hummel & Salvador Valera (eds.), *Adjective–adverb interfaces in Romance*, 173–204. Benjamins.
- Simpson, Jane. 1991. *Warlpiri morphosyntax: A lexicalist approach*. Kluwer Academic Publishers Group.
- Simpson, Jane. 2006. Resultatives. In *Lexical semantics in LFG*, 149–161. CSLI Publications. Originally published as part of *Papers in Lexical Functional Grammar*, 1983.
- Sims-Williams, Nicholas. 1979. On the plural and dual in Sogdian. *Bulletin of SOAS* 42(2). 337–346.
- Smirnova, Anastasia & Ray Jackendoff. 2017. Case assignment and argument realization in nominals. *Language* 93(4). 877–910.
- Sneddon, James N. 1996. *Indonesian reference grammar*. Allen and Unwin.
- Sneddon, James N. 2006. *Colloquial jakartan indonesian*. Pacific Linguistics.
- Sneddon, James N., Alexander Adelaar, Dwi Noverini Djenar & Michael C. Ewing. 2010. *Indonesian reference grammar*. Allen and Unwin 2nd edn.
- Solt, Stephanie. 2007. Two types of modified cardinals. Handout, International Conference on Adjectives.
- Soltan, Usama. 2007. On the individual-property contrast in free state possessive nominals in Egyptian Arabic. In M. Mughazy (ed.), *Perspectives on Arabic linguistics*, vol. 20, 71–86. John Benjamins.
- Spector, Ilona. 2009. Hebrew floating quantifiers. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG09 conference*, 520–540.
- Spencer, Andrew. 2005. Case in Hindi. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG05 conference*, CSLI Publications.
- Spencer, Andrew. 2008. Does Hungarian have a case system? In Greville G. Corbett & Michael Noonan (eds.), *Case and grammatical relations* (Typological Studies in Language 81), 35–56. John Benjamins.
- Spencer, Andrew. 2013. *Lexical relatedness*. Oxford University Press.
- Spencer, Andrew J. & Gregory T. Stump. 2013. Hungarian pronominal case and the dichotomy of content and form in inflectional morphology. *Natural Language and Linguistic Theory* 31. 1207–1248. doi:10.1007/s11049-013-9207-7.
- Starosta, Stanley. 2009. Formosan clause structure: Transitivity, ergativity, and case marking. In Elizabeth Zeitoun (ed.), *Formosan linguistics: Stanley starosta's contributions*, 657–680. Institute of Linguistics, Academia Sinica. Also 1997.
- Stewart, Tom & Gregory Stump. 2007. Paradigm Function Morphology and the morphology/syntax interface. In Gillian Ramchand & Charles Reiss (eds.),

- The oxford handbook of linguistic interfaces*, 383–421. Oxford University Press.
- Stump, Gregory T. 2001. *Inflectional morphology* (Cambridge Studies in Linguistics 93). Cambridge.
- Sulger, Sebastian. 2015. *Modeling nominal predications in Hindi/Urdu*: Universität Konstanz dissertation.
- Svavarsdóttir, Ásta & Margrét Jónsdóttir. 1998. *Íslenska fyrir útlendinga. kennslubók í málfæði*. Málvísindastofnun Háskóla Íslands.
- Svenonius, Peter. 2006. The emergence of axial parts. *Tromsø Working Papers in Linguistics* 33. 49–77.
- Tai, James & Liangqing Wang. 1990. A semantic study of the classifier *tiao*. *Journal of the Chinese Language Teachers Association* 25(1). 35–56.
- Takashima, K. 1984/1985. Noun phrases in the oracle-bone inscriptions. *Monumenta Serica* 36. 229–302.
- Tancredi, Christopher. 1992. *Deletion, deaccenting, and presupposition*: Massachusetts Institute of Technology dissertation. Distributed by MIT Working Papers in Linguistics.
- Taraldsen, Knut Tarald. 1983. *Parametric variation in phrase structure: A case study*: University of Tromsø dissertation.
- Taraldsen, Knut Tarald. 1991. A directionality parameter for subject-object linking. In Robert Freidin (ed.), *Principles and parameters in comparative grammar*, 219–268. MIT Press.
- Taylor, Roxanne. 2020. Lexical and functional prepositions: Argument realisation in the Old English noun phrase. Unpublished manuscript, the University of Manchester.
- Thomason, Richmond H. 1972. A semantic theory of sortal incorrectness. *Journal of Philosophical Logic* 1(2). 209–258.
- Thráinsson, Höskuldur. 2007. *The syntax of icelandic*. Cambridge University Press.
- Toivonen, Ida. 2002. The directed motion construction in Swedish. *Journal of Linguistics* 38(2). 313–345.
- Toivonen, Ida. 2003. *Non-projecting words: A case study of Swedish particles*. Kluwer.
- Trommer, Jochen. 2008. “Case suffixes”, postpositions, and the phonological word in Hungarian. *Linguistics* 46. 403–437.
- Vamarasi, Marit Kana. 1999. *Grammatical relations in Bahasa Indonesia*. Pacific Linguistics.
- Van Egmond, Marie-Elaine. 2004. Copy raising in Dutch. Honour’s thesis, University of Canterbury.
- Van Eynde, Frank. 2006. NP-internal agreement and the structure of the noun phrase. *Journal of Linguistics* 42. 139–186.

- Van Valin Jr, Robert D. 2005. *Exploring the syntax-semantics interface*. Cambridge University Press.
- Van Valin Jr., Robert D. & Randy J. LaPolla. 1997. *Syntax: Structure, meaning and function*. Cambridge University Press.
- Vergnaud, Jean-Roger & Maria Luisa Zubizarreta. 1992. The definite determiner and the inalienable construction in French and English. *Linguistic Inquiry* 23. 595–652.
- Vincent, Nigel. 2017. Parts and particles: The story of *DĒ*. In Bettelou Los & Pieter de Haan (eds.), *Word order change in acquisition and language contact: Essays in honour of Ans van Kemenade*, 292–310. John Benjamins.
- Vincent, Nigel. 2020. Complex versus compound prepositions: Evidence from Gallo-Romance. In Sam Wolfe & Martin Maiden (eds.), *Variation and change in Gallo-Romance grammar*, 347–363. Oxford University Press.
- Vincent, Nigel & Kersti Börjars. 2010. Complements of adjectives: A diachronic approach. In Miriam Butt & Tracy Holloway King (eds.), *Proceedings of the LFG10 conference*, CSLI.
- Vincent, Nigel & Kersti Börjars. 2020. Heads and history. In András Bárány, Theresa Biberauer, Jamie Douglas & Sten Vikner (eds.), *Syntactic architecture and its consequences: Synchronic and diachronic perspectives: Volume 1: Syntax inside the grammar*, 135–160. Language Science Press.
- Van der Wal, Jenneke. 2016. Diagnosing focus. *Studies in Language* 40. 259–301.
- Wang, Lianqing. 1994. *Origin and development of classifiers in Chinese*: Ohio State University dissertation.
- Webber, Bonnie L. 1978. *A formal approach to discourse anaphora*: Harvard University dissertation. Reprinted in *Outstanding Dissertations in Linguistics Series*, Garland Publishers, 1979.
- Wechsler, Stephen. 2011. Mixed agreement, the person feature and the index/concord distinction. *Natural Language and Linguistic Theory* 29. 999–1031.
- Wechsler, Steven & Larisa. Zlatić. 2000. A theory of agreement and its application to Serbo-Croatian. *Language* 76. 799–832.
- Wechsler, Steven & Larisa. Zlatić. 2003. *The many faces of agreement*. *stanford monographs in linguistics*. CSLI Publications.
- Wescoat, Michael T. 2002. *On lexical sharing*: Stanford University dissertation.
- Whitt, Richard J. 2009. Auditory evidentiality in English and German: The case of perception verbs. *Lingua* 119. 1083–1095.
- Whitt, Richard J. 2010. *Evidentiality and perception verbs in English and German*. Peter Lang.
- Williams, Edwin. 1977. Discourse and logical form. *Linguistic Inquiry* 8. 101–

- Xu, Yi. 2011. Post-focus compression: Cross-linguistic distribution and historical origin. In *Proceedings of the 17th international congress of phonetic sciences (icphs xvii)*, 152–155.
- Zanuttini, Raffaella, Jim Wood, Jason Zentz & Laurence Horn. 2018. The Yale grammatical diversity project: Morphosyntactic variation in North American English. *Linguistic Vanguard* 119. 1083–1095.
- Zhang, Hong. 2007. Chinese numeral classifiers in Mandarin Chinese. *Journal of East Asian Linguistics* 16. 43–59.
- Zhang, Niina Ning. 2009. *Coordination in syntax*. Cambridge University Press.
- Zhang, Niina Ning. 2013. *Classifier structures in Mandarin Chinese*. De Gruyter Mouton.
- Zwicky, Arnold M. & Geoffrey K. Pullum. 1983. Cliticization vs. inflection. *Language* 59(3). 502–513.