Focus as a grammatical notion: A case study in autism*

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15.1 The communicative function of focus and universal grammar

It is beyond reasonable doubt that focus marking in natural language has a communicative function. It obviously helps information exchange, if the speakers know which constituents are part of the background and which ones carry new information. In most languages, focus is marked by main stress and/or pitch accent. This is even true in Hungarian, where focus also has a designated syntactic position.\(^1\)

However, this does not necessarily mean that focus marking is an extralinguistic, general communicative tool. In what follows, I will argue that focus is a specific grammatical concept that cannot be described in its entirety by its communicative role. Rather, it has language- and grammar-specific characteristics. This position is widely accepted amongst generative linguists, while it is sometimes questioned in the psycholinguistics literature. For instance, Cutler and Swinney (1986) claim that prosodic marking on focus (i.e. main stress or pitch accent) is at least in certain cases not part of the grammar, but is only there to draw our attention to the relevant constituent.\(^2\)

In this view,

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\(^1\) I have argued elsewhere that in the case of Hungarian focus, prosodic marking is fundamental and the syntactic position is a consequence of the prosodic marking, but this is irrelevant here (see Szendrői 2001, 2003).

\(^2\) To be precise, Cutler and Swinney (1986) formulate their claim for child language. They say that children at an early stage of their cognitive and linguistic development do not have a more sophisticated focus concept and simply use stress and pitch accent as an attention-drawing device. Here I will not go into why I think their claim is untenable even for child language, but see Szendrői (2004).
focus marking is similar to saying something louder so that the hearer has a better chance of understanding what we say. When the speaker applies focus marking on a constituent, he simply wants to draw the hearer’s attention to the focal constituent. The hearer, in turn, notices the prosodically marked constituent and concludes that the speaker used this marking to draw his/her attention to this constituent.

In contrast, the generative position is that the concept of focus and focus marking is part of universal grammar (see e.g. Chomsky 1971; Reinhart 2006). In other words, every normally developing child knows what focus is and that languages mark focus prosodically (by main stress or pitch accent) due to their genetic endowment.

Although the literature abounds with theoretical support for the generative position, there is relatively scarce experimental evidence available. My aim here is to add to this body of work, hoping that such an endeavor helps interaction between theoretical and experimental linguistics and thus, in the long run, contributes to the making of a conceptually sound and psychologically realistic grammar.

An important difference between the two approaches to focus marking described above is that while in the generative approach production and comprehension of focus is the result of an automated, language-specific process, in the rival theory a pragmatic (or more general) deductive step is necessary. Namely, in order to be able to identify the communicative import of the stressed constituent, the hearer has to assume that it was the speaker’s intention to signal this. In other words, this approach to focus assumes that communication is intentional in nature. Intentional communication means that the meaning of each communicative unit (e.g. an utterance) involves the effect that the speaker has on his/her audience due to the fact that the audience is aware that the speaker is not only delivering a message, but also trying to have an effect on his/her audience by his/her utterance (see Grice 1957; Sperber and Wilson 1995, etc.) Take an example: if a guest says to his host: *It’s cold in here*, his intention is not only to make the host aware of this fact, but also, by uttering this sentence, he intends to have an effect; for instance, he wants to make the host turn on the heating. The host, in parallel, will not only acknowledge that according to her guest the temperature in the room is low, but also take into account that the guest had some aim in mind when uttering this statement, and so she will try to deduce this aim. In the specific case of focus, the speaker’s intention is to get the hearer to interpret the focal constituent as new, relevant information, while the hearer, upon hearing the focal utterance, has to deduce this intention of the speaker.
This deductive step is not necessary if one adopts the generative standpoint. Here, the constituent bearing main stress will be automatically interpreted as focal, i.e. as new and relevant information, because this is what the focus-marking rule in the grammar prescribes. It is not necessary for the hearer to deduce the speaker’s intention to mark the constituent as focus. Actually, it is irrelevant whether the speaker had any such intention when uttering a focal utterance.³

But how could we find evidence that would help us choose between these two approaches to focus marking? Introspection, the common tool of theoretical linguistics, is of little help in this matter. If we were to ask the speaker whether he had any intention to get the hearer to interpret the focal constituent as new information, he/she would of course claim that it was his/her intention to do so. The hearer, on the other hand, is of course capable of finding out that this was the speaker’s intention. But this does not necessarily mean that speakers identify foci as a result of this thought process. However, the point where the two focus theories diverge is precisely the method they assume for the identification of a focal constituent: by using an automated grammatical rule, or by deducing the other’s intention. If our aim is to investigate whether a specific focus-marking rule is truly available in the grammar of human languages, then we have to create an experimental setting where the deductive process is unavailable for some reason. If in such a situation, the speaker’s ability to identify the focus did not diminish, then we could conclude that a language-specific tool is available to him/her; he/she does not have to rely on the communicative deduction process to identify the focus.⁴

³ An important contribution on this issue is Erteschik-Shir’s (1997) position. She defines focus in the pragmatic sense, as in (i). But she also states that ‘For any sentence several focus assignments will generally be possible, one of which is realised in discourse. A sentence, in discourse, has only one main focus, which is assigned to a syntactic constituent. The constituent may be an NP, VP or the whole S’ (Erteschik-Shir 1997: 11; my italics). The crucial point is that although she states that focus has a particular pragmatic function (as in (i)), it is grammatically encoded by assigning f-marking to a syntactic constituent.

(i) The Focus of a sentence S = the (intension of) a constituent c of S which the speaker intends to direct the attention of his/her hearer(s) to, by uttering S (Erteschik-Shir 1997: 11; originally from Erteschik-Shir 1973).

⁴ Note that the reverse is not true. In an experimental setting where the grammar-specific focus-marking rule is blocked for some reason, we cannot conclude anything from the speaker’s undiminished ability to identify the focus correctly. This is because the generative theory does not claim that the availability of the grammar-specific focus-marking rule precludes the ability to carry out a communicative deduction process. It only claims that the grammar-specific rule is available, presumably alongside general, communicative deductive mechanisms. In other words, if in this specific situation, the speaker relies on his/her deductive mechanisms to determine the focus, it does not follow that he/she would do the same were the grammar-specific rule available to him/her.
At this point, the psycholinguistic method appears to be useful. If we could identify a population where we have reason to believe that the communicative deductive steps that are necessary to identify the focus are not available to the speaker, we could investigate whether focus marking and focus identification are impaired in this population. In section 15.3, I will argue that people with autism constitute an adequate population to carry out this investigation. But first we need to introduce some basic notions that organize discourse.

15.2 Focus and background

Focus has an important role in the organization of discourse. When we speak, our sentences often contain constituents that have already been referred to, and also others that are new at that particular point of the discourse. Any answer to a question is relevant, new information. We thus take the focus of an utterance to be the constituent that answers an implicit or explicit question in a discourse. Accordingly, the most common focus test is the so-called wh-test. As shown in (1), the focus of the utterance is 'Snow white', as this is the constituent that provides an answer to the preceding question.

(1) A: Who ate the apple?
   B: Snow white ate the apple.

In Hungarian, as opposed to English, focus has a designated syntactic position: it immediately precedes the verb, while the verbal particle is postverbal, as in (2). In addition, just as in other languages, the focal constituent is also prosodically marked: it gets main stress (indicated by small caps in the examples) and constituents that follow it undergo stress reduction (Kálmán and Nádasdy 1994).

The constituent that follows the moved focus is called the background:

(2) focus background

Hófehérke ette meg az almát.
Snow white ate prt the apple acc
‘Snow white ate the apple.’

We could say that the most extreme form of deaccenting is when the deaccented constituent is erased completely, as in (3) (see Williams 1997).
(3) A: Ki ette meg az almát?
   ‘Who ate the apple?’

   B: Hófehérfke.
   Snow white.

Of course, in everyday life we do not only converse using question-answer pairs. But there are other conversational situations where it is possible to reliably identify the focus of the utterance. For instance, if a speaker corrects the other speaker, then the relevant constituent is the focus of his/her utterance:

(4) A: A herceg megköstolta az almát.
   ‘The prince tasted the apple.’

   B: Nem. Hófehérfke köstolta meg az almát.
   no Snow.white tasted PRT the apple-ACC
   ‘No. Snow white tasted the apple.’

Note that in such situations it is inappropriate to omit the postfocal constituent:

(5) A: A herceg megköstolta az almát.
   ‘The prince tasted the apple.’

   B: Nem. #Hófehérfke.
   no Snow.white
   ‘No. Snow white.’

To be more precise, omission of the postfocal constituent is only appropriate if the first speaker already used a marked focus on the agent, in other words, if the omitted constituent had been marked as background by the first speaker:5

(6) A: A herceg köstolta meg az almát.
   the Prince tasted PRT the apple-ACC
   ‘The prince tasted the apple.’

   B: Nem. Hófehérfke.
   no Snow.white
   ‘No. Snow white.’

5 Note that the same is true in English (cf. (i) and (ii)).

(i) A: The Prince tasted the apple.
   B: No. Snow white #(did).

(ii) A: The Prince tasted the apple.
   B: No. Snow white (did).
So far, we have demonstrated that in order to use focus and background marking properly in discourse, the speaker has to be aware of at least the following grammatical rules: (i) focus bears the main stress of the utterance, and in Hungarian, it immediately precedes the verb, (ii) the background is destressed, (iii) the background can be omitted if it is the same as the background of the previous utterance.

15.3 Autism

Autism is a developmental disorder with genetic roots. Its most important symptoms are that a person with autism has an impairment in his/her ability (i) to create and maintain social relationships, (ii) to take part in interpersonal communication (both verbal and non-verbal), and (iii) to organize his/her interests and behavior in a flexible manner (WHO 1990). Autism is often accompanied by severe mental retardation, in which case linguistic abilities are often severely deficient. Autism that is not accompanied by mental retardation is called Asperger’s syndrome, or high-functioning autism; some people with this form of autism may actually have higher than average IQs. The typical symptoms of high-functioning autism are (i) in the realm of social interactions—interactions are too formal, rigid, and often restricted to a stereotypical field of interest; (ii) in the realm of communication—formally sound, but pedantic speech, poor articulation, unusual tone, intonation and speed of speech, comprehension outperforms production; (iii) concerning stereotypical, repetitive behavior—intense interest in a narrow, stereotypical area (e.g. constant studying of the TV program) (Györi 2003: 68).

According to Györi (2003: 79), the hardest problem researchers investigating autism face is the heterogeneity of the syndrome in a range of different ways. A wide range of variation occurs in the causes of the onset of autism, in its neurobiological background, in the nature and extent of the cognitive deficit, in the make-up of the set of symptoms, and in the occurring developmental patterns. In spite of this, we know since seminal work by Baron-Cohen et al. (1985) that people with autism lack the fundamental cognitive ability of (naive) theory of mind, or mentalization. It is this ability that allows us to ascribe mental states (belief, desire, emotional states, intentions) to different agents and to assume that such mental states are the root cause of the behavior of these agents. In other words, in everyday life it is our theory

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6 It is an open question whether people with autism have impairments concerning other cognitive functions, besides the impairment of their theory of mind. I will not go into this here, but see for instance Györi (2003: 115–25) for an overview of this issue.
of mind that allows us to interpret, explain, and to some extent foresee complex human behavior.

There is a well-established link between theory of mind and ability for verbal and non-verbal communication (see e.g. Sperber and Wilson 2001 and references there). Due to the intentional nature of interpersonal communication described above, speakers must be aware of the communicative intentions of their conversational partner. Evidently, they need to be able to regard them as creatures capable of mental processes, i.e. they must be able to assign mental states (such as belief) and intentions (such as will) to the other speakers.

Numerous experimental studies support the presence of a theory of mind deficit in people with autism (see e.g. Baron-Cohen et al. 1985; Perner et al. 1989; Happé 1993; Baron-Cohen 1995). As a result, these people form a population that provide an excellent opportunity for the investigation of issues regarding language use and pragmatics, and thus, consequently also the issue of focus marking. More specifically, if focus were not marked by grammar-specific tools, we would expect that people with autism would find focus marking and focus identification problematic. This is so, because the general deductive process that would be necessary to determine the focus, which was described in the previous section, requires a theory of mind on the part of the speaker, which is not available for people with autism. Therefore, if we find that at least in certain conversational situations, focus marking and focus identification are not problematic for an autistic person, then we can conclude that focus marking follows grammar-specific rules. This was the outcome of the case study described in the following section.

15.4 A case study

15.4.1 The experimental participant

L. was diagnosed with autism at a young age. At the time of the experiment, he was 13 years old. He had a normal (100) non-verbal IQ. According to the psychologist who treats him, he is a high-functioning autistic patient, as he

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7 This is a simplification. Győri (2003) showed that, although most people with autism have a severe theory of mind deficit, certain compensational strategies may significantly ameliorate their experimental results. Moreover, based on some of his experimental findings, Győri (2003: 12) concludes that certain autistic people actually have complex mentalizational abilities.

8 As is standard in psycholinguistic research, this line of thought assumes that a neurologically impaired population does not possess (or hardly possesses) any abilities that are not available to the normal population. This is not an innocent assumption, but a necessary one, as otherwise we would not be able to make any predictions about the normal population based on experimental findings from a neurologically impaired population.
manages well in many complex situations in life (e.g. gets around town alone).

L.’s behavior shows many autistic symptoms: poor eye contact; stilted, too formal conduct; unexpected changes of subject while conversing; surprisingly detailed interest in particular areas (such as the public transportation system of Budapest). His speech is fluent, but ‘dry’. His intonation is flat and he is liable to understand things literally. His linguistic abilities are without doubt very good: his sentences are often complex, his vocabulary is large. He commits few grammatical mistakes in his spontaneous speech. Some examples of these are an occasional topic drop (which is not allowed in Hungarian), or the use of indicative mood instead of the conditional in irrealis situations.9

Observing L.’s spontaneous behavior reveals a deficit in his functional mentalizational abilities. Due to lack of time, I could not acquire experimental proof of this. It can be regarded as anecdotal evidence for instance that while it posed no problems for L. to understand why fire extinguishers do not contain water (namely, because water cannot be used to put out fires involving electricity and at the moment of manufacturing it is impossible to know in advance for what kind of fire the extinguisher would be used), he was completely incapable of understanding that the fact that in Hungarian ‘folklore’ chimney sweepers bring luck is a superstitious belief (i.e. people believe it even though it is not really true).10

9 It is interesting to note that the observed ungrammatical verbal mood inflection occurred in an irrealis situation, as in (i). This sentence was uttered after I showed a picture to L. where a lost dog was delivered to his owner by a policeman, and the dog, happy to see him again, licks his owner.

(i) L. (laughing)
   – Mi lenne, ha a kutyus a rendőrt nyalná meg, és akkor what be-cond if the doggy the policeman-ACC lick-cond prt and then [a rendőr] megijed(-ne).
   the policeman frightens(-cond)
   ‘Imagine if the doggy licked the policeman! Then he would be frightened!’

It is possible that this is not a coincidence but reflects L.’s difficulties in conceptualizing the situation. This would not be surprising, as it is likely that conceptualizing a situation like this would require theory of mind, as one must be able to assume that the policeman is capable of the mental state of being frightened. The issue whether lack of irrealis morphology reflects a conceptual difficulty would require further research.

10 It was also interesting how L. told a story how he once switched off his mobile phone so that people could not disturb him, as he wanted to go see the terminus of the underground line after school. He got delayed and by the time he got home, his parents were really worried about him. In his narrative, his mother was worried that he had had an accident, but L. did not understand this, because he had not had an accident. This also shows that L. has difficulties assuming that another person, in this case his mother, could believe things to be true that are in fact not true. It is widely accepted that an ability to ascribe false belief to an agent requires mentalization.
15.4.2 *The experimental task*

In the course of the experiment L. carried out a bi-modal elicited production task, following Baltaxe (1984). The bi-modal stimulus involved the simultaneous presentation of a picture and an utterance uttered by the experimenter about the picture. The task of the participant was to determine whether the experimenter can see well what is on the picture, and if not, correct her. I made sure that it was plausible that the experimenter might make mistakes: the pictures were placed right in front of L. and relatively far away from the experimenter, so it was possible for her to claim that she did not see the picture properly. As a result, L. understood the experimental task to be a picture recognition task. This was a typical stimulus:

![Figure 15.1 Picture for test item The girl is stroking a cat.](image)

(7) *Experimenter (E):* – A lány simogat egy cicát.

  the girl strokes a cat

  ‘The girl is stroking a cat.’


  no the girl a dog strokes

  ‘No. The girl is stroking a dog.’

Both Baltaxe’s original aim and my aim in this experiment was to use the stimuli to create a situation where the participant has to use focus.
The theoretical basis for this method is the observation, described above in (3), that correction of an utterance involves focusing the corrected constituent.

15.4.3 The conduct of the experiment
The picture recognition game was introduced after a lengthy spontaneous conversation with L. The experiment lasted about one hour, including short interruptions of spontaneous discourse. During the experiment, L. received 90 test items (i.e. stimulus pairs), 17 percent (15/90) of which required no correction, while 83 percent (75/90) required correction of the statement uttered by the experimenter. As L. believed that the experimental task was picture recognition, I did not think it necessary to introduce extra fillers.

15.4.4 Results and discussion
L. did not make mistakes when there was no discrepancy between the picture and the utterance. In 84 percent of the cases where a discrepancy occurred, he correctly identified it. (see Table 15.1).

In the remaining 16 percent of cases, L. either could not conclude what exactly was in the picture, or he understood things too literally and was unable to use inference to deduce the nature of the discrepancy. The breakdown of incorrect responses is given in Table 15.2, while (8) provides an illustrative example.

(8) a. E: -...és sötétszínű pólóban van.
   and dark-coloured T-shirt-loc is
   ‘...and he is wearing a dark T-shirt.’

<table>
<thead>
<tr>
<th>Incorrect responses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. L.: ‘I can’t see it properly.’</td>
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<tr>
<td>b. L. failed to notice the discrepancy</td>
</tr>
<tr>
<td>Total:</td>
</tr>
</tbody>
</table>
Focus as a grammatical notion

L: -Azt nem lehet tudni, mert itt fehérnek tűnik a fekete- fehérben.

'It's impossible to tell, because it seems white in the black and white [picture].'

E: -Akkor valószínű inkább világos színű, ugye? Mert then likely more light coloured TAG because a nadrágja, az sötét.

'then it is more likely to be LIGHT coloured, isn't it? Because his trousers, those are dark.'

L: -Igen, azt feketében jelzi.

'Yes. Those are signaled by black.'

b. E: -...és a gyerek akinek megnézi a fogát az and the child whose sees the tooth-ACC that szőke hajú.

'...and the child whose teeth he is looking at is blond.'

L. -SÁRGA színű.

'It's yellow.'

E: -Sárga színű. Nem lehet megállapítani a yellow coloured not possible state-INF theLOC képről, hogy...

'It's yellow. It is not possible to tell from the picture whether...'

L: -Nem lehet.

'It's not possible.'

It is not surprising that L. experienced difficulties both in picture recognition and in interpretation, as certain picture recognition difficulties and a too literal interpretation of pictures are both characteristic symptoms of autism (see for instance Győri 2003).

The breakdown of correct responses is given in Table 15.3. Here we get a better picture of the nature of the utterances L. intended as corrections.
In more than half of the cases, L. gave an elliptic answer with focal stress that was appropriate in the discourse. Examples are given in (9). In (9a), nominative case indicates that the elided part is something like That's a... rather than the experimenter's utterance. Ellipsis is licensed here. In (9b) the presence of the copular verb in the experimenter's utterance licenses the ellipsis. In (9c), which follows on from previous discourse given in (10a) below, the experimenter's question provides the necessary licensing for the ellipsis. In all of these cases, the focal constituent bears focal stress, so these responses can be regarded as correct responses.

(9) a. E: -Itt egy televíziót látunk ahol a bemondónő here a tv.set-acc see-we where the presenter-woman épp a híreket mondja. just the news-acc says
   'Here we can see a telly, where the presenter[woman] is reading out the news.'
   L: -Bemondóbácsi! presenter-man
       ‘Presenter-MAN’

b. E: -A kislánynak kék nadrágja van. the little.girl-gen blue trousers-poss is
   'The little girl has blue trousers.'
   L: -Piros
   red
   ‘RED [ones]’

c. E: -Igen? Mit tapaszt rá?
   yes what-acc glues prt
   ‘Yes? What does he glue on [the wall]?’

Table 15.3 The breakdown of correct responses for test items

<table>
<thead>
<tr>
<th>Correct responses:</th>
<th>%</th>
</tr>
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<tbody>
<tr>
<td>a. Pragmatically appropriate, elliptic answer with</td>
<td>53% (40/75)</td>
</tr>
<tr>
<td>correct intonation</td>
<td></td>
</tr>
<tr>
<td>b. Pragmatically appropriate, syntactically correct</td>
<td>19% (14/75)</td>
</tr>
<tr>
<td>full-sentence answer with correct intonation</td>
<td></td>
</tr>
<tr>
<td>c. Pragmatically inappropriate, elliptic answer with</td>
<td>3% (2/75)</td>
</tr>
<tr>
<td>correct intonation</td>
<td></td>
</tr>
<tr>
<td>d. Pragmatically appropriate, elliptic answer with</td>
<td>9% (7/75)</td>
</tr>
<tr>
<td>incorrect intonation</td>
<td></td>
</tr>
<tr>
<td>Total:</td>
<td>84% (63/75)</td>
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</tbody>
</table>
Focus as a grammatical notion

In a further 13 percent of the cases, L.’s response was a full sentence with focus on the relevant constituent, both syntactically and prosodically. In (10a) he utters an all-focus utterance, correctly stressing every constituent. In (10b) there is correct focus marking on both contrasted elements (teeth; dentist) and in (10c) the focus marking appears on the contrasted verbs (to begin to kick; to push out).

(10) a. E: -Ezen a képen egy munkást láttunk this-loc the picture-loc a worker-acc see-we amint éppen festi a falat. as just paints the wall-acc ‘In this picture, we see a worker as he is painting the wall.’

L: - ... Rátapasztja a Falra a Házépítésnél... prt-glues the wall-loc the house-building-loc ‘He glues [them] onto the wall while building a house.’

b. E: -Ezen a képen egy orvost láttunk, aki this-loc the picture-loc a doctor-acc see-we who fülész é s viszgálja a gyereknek a fülét. ear.specialist and examines the child-gen the ear-acc ‘In this picture we see a doctor. He is an ear specialist and he is examining the child’s ear.’

L: - Nem, nem, nem, nem, nem. ‘No, no, no, no, no.’

E: - Hanem? ‘Rather?’

L: - Hanem a Fogát nézi meg egy Fogorvos, rather the tooth-acc looks prt a dentist ‘Rather, his teeth are examined by a dentist.’

c. E: -Ezen a képen egy focista van és éppen this-loc the picture-loc a footballer is and just áll a kapuban és kivédi a labdát. stands the goal-loc prt-defends the ball-acc ‘In this picture, we see a footballer as he is standing in goal and pushes the ball out.’
Note, however, that there were several cases, where L.'s utterance was pragmatically marginal, even though focus marking was correct. These were elliptic utterances, where the use of ellipsis was not appropriate.

(11) a. (In the picture there is a puppy with two plates. One has milk, the other water. The doggy splashes the milk around. He does not touch the water.)

E: -Na hátt itt viszont ez a kiskutya itt
PRT PRT here in.contrast this the doggy here
rosszalkodik, mert a helyett, hogy meginná a
behaves.bad because instead that drink-cond the
tejecske’t, ahelyett kiönti.
milk-DIM-ACC instead PRT-pours
‘Here the doggy is misbehaving: instead of drinking the milk
he is splashing around with it.’

L: -Az INNIVALÓJÁT.
the drink-poss-ACC
‘His DRINK.’

E: -Mit?
‘What?’

L: -A VIZET.
the water-ACC
‘The water.’

E: -A VIZET önti ki.
the water-ACC pours PRT
‘He is splashing around with the WATER.’

b. E: -Na ezen a képen viszont nagyon rendesen
PRT this-LOC the picture-LOC in.contrast very nicely
viselkedik és megissza a vizet.
behaves and PRT-drinks the water-ACC
‘Now, in this picture [the doggy] behaves himself and drinks
the water.’

L: -A TEJET.
the milk-ACC
‘The MILK.’
As I already explained above (see (3)), the pragmatic condition for ellipsis is that the background status of the elided constituent is evident for both the speaker and the hearer. In (11a), the elided word (kiönti ‘prt-pours’) is backgrounded, as the experimenter contrasts it with the verb meginn’a ‘prt-drink-cond’. But even in (11b), where no contrasting verb appears, the lack of background marking on the verb by the experimenter renders the ellipsis in L.’s utterance inappropriate. Of course, L.’s responses are perfectly comprehensible; they do not require more than a simple inference. It would be interesting to see in future research, however, whether these kinds of pragmatic errors are characteristic of autistic speech. This would tell us more about autism and also about such pragmatic phenomena.

Finally, I want to discuss those responses that can be described as incorrect. In 9 percent of the cases, L.’s response carried less stress or accent than what can be considered normal. These responses fit in with his general speech, which has a narrow range and a flat intonation, as does the speech of many autistic people. Nevertheless, cases where the utterance was also elliptic or where the contrast fell on the verb, as in (12), were counted as incorrect in the present experiment. This is because ellipsis makes the syntactic effect of focus invisible and in the case of verb focus there is no syntactic effect. One would need to rely on prosody alone to determine whether focus marking was correct and in these cases the necessary accent was judged to be lacking.

(12) E: -Itt egy lányt látunk, aki gyalogol.
   here a girl-acc see-we who walks
   ‘Here we can see a girl who is walking.’
L: -Fut.
   ‘Runs.’

15.5 Conclusions

It is clear from the above that L., despite the fact that he is autistic, used focus marking correctly in 75 percent of the cases when he had to correct a previous statement of the experimenter. It is needless to say that one cannot draw strong conclusions from a single case study, especially not in the case of such a heterogeneous syndrome as autism. But we can safely say that the results of this case study clearly point in the direction that focus marking is not an exclusively communicative device, but rather follows a language-specific rule.
Despite his knowledge of focus marking, L.’s language use differs from what is considered normal or average in many different ways. Even in the case of focus, we can only conclude that he used it correctly in a discourse situation where his task was to correct a previous statement uttered by the experimenter. We do not have proof that he would use focus in every discourse situation that non-autistic speakers would. (Note, however, that in L.’s spontaneous speech syntactic focus marking seemed normal.) We also saw that it is questionable whether other pragmatic devices, such as background marking and background identification, are equally available to him. It is also an open question whether the poor prosody of L.’s speech is connected to the impairment of his mentalizational abilities and to the consequent communicative deficit.

I hope that this case study has proved suggestive as to how psycholinguistic methodology can help us investigate issues in theoretical linguistics.