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Becoming a co-operating pair: Blind trainees learning to interact with their guide dogs

Monica Simone, Chloé Mondémé, and Renata Galatolo

Abstract

Background

There is a lack of studies addressing the issue of how visually impaired members become skilled in interacting with their guide-dogs.

Method

Data for this study are videorecording of training sessions in French in which trainers accompany blind trainees during the accomplishment of navigational tasks such as crossing a street and heading for a door or a sidewalk with the guide-dog. The study adopts the methodological approach of multimodal conversation analysis.

Results

Two instructional configurations are identified: (1) the trainer instructs the trainee about *what to tell the dog to do next* by incorporating a verbal cue to be addressed to the dog; (2) the trainer instructs the trainee about *what to do next to/with the dog*. Multimodal resources are differentially employed to implement distinct social actions: verbal cues are favored to get the dog to perform navigational tasks; touch is employed to either reward the dog or correct his/her conduct.

Discussion

The pedagogical importance given to using vocal and embodied resources in specific ways for interacting with the guide-dog configures the latter as a participant to, and recipient of, social actions entailing both practical and affective aspects rather than as a mere aid to mobility.

Keywords: guide-dogs; mobility; multimodal resources; instructions; embodied action; conversation analysis

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1 Introduction

Many blind persons rely on a guide-dog for daily mobility. Guide-dogs are service dogs specifically trained to provide mobility assistance, and their blind prospective owners are also trained to interact with them safely and efficiently. This article addresses the theme of the special issue “The practical and interactional accomplishment of living with visual impairment” by exploring the instructional practices through which blind users become skilled in addressing and interacting with their guide-dogs.

Within EMCA, interspecies interactions involving guide-dogs and blind persons are receiving increasing attention (Due, 2021; Due & Lange, 2018; AUTHOR, 2019; 2023). Studies in this area have proposed to consider guide-dogs as *semiotic agents* capable of *distributed perception* (Due, 2021) within *zootechnical arrangements* (Doré & Michalon, 2016) that include the blind person and tools (i.e., harness and leash). So far, however, the interactional practices employed by blind persons to address their guide-dogs have not been investigated systematically, i.e., with reference to their recurrent sequential and practical contexts. This study explores the ‘constitution’ of the blind-dog pair in a pedagogical setting focused on learning how to address the guide-dog using verbal and embodied resources appropriately.

The study analyses videorecorded data from training sessions in French in which specialized trainers accompany blind trainees during outdoor and indoor mobility with their newly assigned guide-dogs. The analysis focuses on sequences in which the trainer instructs the blind trainee on how to address the dog in the context of three different practical activities: (a) getting a navigational task accomplished, (b) rewarding the dog for successfully completing a mobility assistance task, and (c) correcting the dog’s ongoing conduct. Two instructional configurations are identified: one in which the blind trainee is prompted to address the dog with a verbal cue; the other, in which the trainee is prompted to interact with the dog with an embodied action.

The results of the analysis show that vocal and tactile resources are used to deliver rather different actions to the guide-dog. Vocal resources are primarily employed to get the dog accomplish a subsequent mobility assistance task such as crossing a street and heading for a door or a sidewalk; tactile resources are employed to reward the dog (e.g., by stroking its head) and to correct their conduct (e.g., by pulling the leash or harness). In the discussion, it is proposed that such differentiation of resources configures the guide-dog not only as an aid to mobility (as is the white cane), but as a participant to, and recipient of, social actions entailing both practical and affective aspects.

2 Background

Recent years have witnessed an increasing interest in exploring the practices employed by visually impaired members to navigate built spaces that are designed assuming seeing persons as default users. For instance,

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previous studies have explored how visually impaired pedestrians navigate urban spaces with a guide-dog or using the white cane (Relieu, 1994; Due & Lange, 2018); experience museum exhibitions through tactile and vocal guidance (Author & Author, 2014; Ticca & Ursi, 2019); and perform paraclimbing with the assistance of a sight-guide (Author & Author, 2021, 2022, 2023 a, b). However, only a few studies have addressed the issue of how visually impaired members become skilled in using navigational and mobility assistance available to them (Minami et al., 2023). The aim of this article is to reconstruct practices through which blind trainees are instructed to interact with their future guide-dogs.

The analysis draws on an EMCA-informed understanding of instructed social activities as being organized from the pair *instruction* and *instructed action* (Garfinkel, 2002). In CA literature, instructions are treated in the same way as requests and directives, that is, as actions “designed to get someone else *to do something*” (M.H. Goodwin, 1990:67; emphasis added). As such, instructions occur routinely as ‘first’ pair-parts in a sequence where the expected ‘second’ pair-part is the complying action. Both actions can be accomplished by participants using a variety of resources that include talk and embodied action (Mondada, 2014; Stukenbrock, 2014). The multimodality of instruction sequences has been explored with reference to a variety of teaching and training settings and especially with reference to instructed mobile activities, which is also the case with blind pedestrians training with guide-dogs. In these settings, following the instructions is typically implemented through embodied actions. For instance, in car driving lessons, while trainers mostly use vocal resources to produce and deliver instructions to the trainees, the latter are seen to follow the instructions by operating car controls to achieve the expected outcomes (e.g., slow down, turn at an intersection, etc.) (De Stefani & Gazin, 2014).

The data analyzed in the present article show a different participation framework (Goffman, 1981), in which to the trainer-trainee dyad an animal participant (the guide-dog) is added. As a result, the distributed accomplishment of navigational tasks entails a different sequential organization than in learning to drive a car or to use a white cane. Whereas in the latter cases, trainees are expected to learn how to accomplish navigational tasks by using tools in relevant ways, in the case of learning to walk with a guide-dog, trainees are required to engage with an animal, which results in incorporating the dog in the organization and sequential unfolding of instruction-instructed actions.

While the study of social interaction has hitherto been confined primarily to inter-human interactions, interest in social interactions involving animals has been growing in recent years. This “animal turn” across the social sciences and humanities has spread to geography, sociology, and anthropology (Kulick, 2017), but also to linguistics (AUTHOR, 2021, 2022; de Malsche & Cornips, 2021). By showing how the animal’s behaviors are recaptured as meaningful actions, these studies contribute to the empirical respecification of animal agentivity and participation. Of all the studies that are flourishing, some have focused specifically on the human/dog dyad, particularly in the context of assistance with guide-dogs for visually impaired persons (AUTHOR, 2019 ; Due &

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Lange, 2018). As explored in the analyses below, the presence of this third-party animal has essential consequences regarding the distribution of participation: he/she is addressed, given verbal instructions, and his/her actions have decisive consequences on the accomplishment of the activity.

Some studies have proposed to consider animal participation as forms of “utterances” that can be subject to syntactic, semantic or even pragmatic analysis (de Malsche & Cornips, 2021). More specifically, in the field of EM/CA, recent work has focused on the relevance of treating animal contributions as turns – not in the sense that they would be equivalent to verbal turns-at-talk, but as relevant embodied contributions, retrospectively and prospectively oriented to the other participants’ turns (Author, 202, 2023). This body of work has also emphasized the necessity of treating animal displays or vocalizations as significant actions (Harjunpaa, 2022), not only from an ethical point of view but, above all, from an analytical one (Author, 2019). As we shall see, this also significantly impacts the transcription layout (Mondada, 2018), as it involves having dogs feature in the transcript in the same way as human participants.

3 Data and methods

Data for this study were videorecorded by AUTHOR in a school for guide-dogs in France between 2008-2009. The school was responsible for breeding and training puppies for about 2 years, after which the dogs were trained as guide-dogs, i.e., they were trained to provide mobility assistance and respond to an inventory of verbal cues. Still at the school, trained guide-dogs were paired with blind applicants. The newly formed blind-dog pair went through a two-weeks ‘adaptation phase’ focused on building a good and efficient relationship. During the two weeks (one spent at the school and one at the blind person’s place of residence) the blind trainee and their guide-dogs were able to experiment and train together.

Data for this study are selected from 3 training sessions within the adaptation phase. During these sessions, blind trainees and their newly assigned guide-dogs trained in both indoor and outdoor mobility and were accompanied by the dogs’ former trainers who monitored their interaction and helped the blind persons to develop the communicative skills needed to interact with their guide-dogs.

Participants were 2 blind trainees, 2 trainers and 2 guide-dogs, grouped into 2 different trios. Data were videorecorded after obtaining the participants’ consent and were transcribed according to the conventions elaborated in CA for talk (Jefferson, 2004) and multimodality (Mondada, 2019).

4 Results

4.1 Getting a navigational task accomplished

The first instructional configuration identified in the data is embedded in a sequence where the ‘first’ instruction, produced by the trainer and addressing the trainee, is followed by a ‘second’ instruction, which is in turn produced by the trainee and addressed to the guide-dog. The first (trainee to trainer) formulates *what to tell the dog to do* next by providing the verbal cue(s) the dog is trained to recognize and respond to. The second (trainee to dog) instruction is routinely achieved by reusing the verbal cue from the first instruction and addressing it to the dog. In Extract 1, the trainer explicitly requests the trainee to (re)say the verbal cue *traverse* / ‘cross’ and address it to the dog.

Extract 1: Extended instruction + Repetition

BEN = Benoite (trainee)

STE = Stéphane (trainer)

```
1  BEN    c'est: bien\ * (0.4) t'es un grand garçon\  
      good                                you're a great boy  
      >>strokes head*  
2      (3.9)  
3  ->STE  dis lui traver/se  
      say cross to him  
4      «(0.3)» «(0.2)»  
      dog  «.....»gets up«  
5  ->BEN  «traverse  
      cross  
      dog  «walks--->>
```

When the Extract starts, the participants are standing at the edge of a sidewalk and BEN is praising and rewarding the dog for having stopped and sat before the crossing, which is precisely how guide-dogs are expected to behave when it comes to crossing a road (Cf. Extract 5). At line 3, STE progresses the navigational activity by producing an instruction concerning the next task (crossing the road). STE’s instruction exhibits a compositional structure composed of (1) the request to (re)say (*dis lui* / ‘say to him’) and (2) the verbal cue to be delivered to the dog subsequently (*traverse* / ‘cross’). Hence, rather than simply requesting BEN to instruct the dog to cross (e.g., ‘ask him to cross’), STE’s instruction requests BEN to ‘say’ the word *traverse* and address it to the dog, which she does at line 5.

Noticeably, the dog gets up preparing to start the crossing (l. 4) already following STE’s instruction and before BEN delivers the cue to him. Despite in the context of the ‘first’ instruction (l. 3), the cue *traverse* is clearly addressed to the trainee rather than to the dog, the dog’s early response displays the saliency of the cue.

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In the data, instructions like the one just analyzed with reference to Extract 1 (l. 3) are not very frequent, as in most cases trainers produce elliptical instructions, only providing the cue which the trainees are expected to subsequently reuse and address to the dogs, as in the following Extract.

Extract 2: Elliptical instruction + repetition

CAT = Catherine (trainee)

MAR = Martin (trainer)

```
1 ->MAR   tout=droit la porte  
          straight through the door  
2 ->CAT   *tout droit la porte  
          straight through the door  
          cat *walks-->  
3         ⌘(1.0)      ⌘      (0.6)      ⌘  
          dog ⌘two steps⌘focuses on door handle⌘  
4         *      (0.2)      *  
          cat ->*arm towards door*
```

In this Extract, the participants are navigating an indoor space at the school for guide-dogs. When the Extract starts, the participants are in a corridor leading to an exit. At line 1, MAR produces the ‘first’ instruction (*tout droit la porte* / ‘straight through the door’). The instruction is delivered quickly and particularly the first two words (*tout droit*) are latched. CAT’s subsequent repetition (l. 2) consists of the very same words as the prior instruction. This displays CAT’s understanding of the prior instruction as providing the verbal cue to be reused and addressed to the dog.

Compared to MAR’s instruction (l. 1), CAT’s (l. 2) is delivered in a clearer and more punctuated manner. Such differences in the delivery of the instructions contribute to selecting specific recipients for the ‘first’ and the ‘second’ instruction. MAR’s delivery of the instruction at line 1 seems oriented towards selecting CAT as its recipient while ‘neutralizing’ the potential that it is perceived as a direct instruction to (and by) the dog (Cf. Extract 1). Conversely, CAT’s delivery of the instruction at line 2 selects the dog as its recipient, which seems to be confirmed by the timing of CAT’s and the dog’s subsequent mobile actions. While CAT starts walking towards the door immediately after receiving the instruction from MAR (line 2), observably treating it as an instruction addressed to herself; the dog starts walking ahead only after CAT repeats the verbal cue, which displays her responsiveness not just to the cue, but also to her future owner’s voice. At line 3, it is also noteworthy that the dog’s implementation of the instruction develops into two subsequent actions: (1) leading CAT to the door, and (2) showing where the handle is by focusing on it with her nose.

Overall, Extracts 1 and 2 show that (re)using specific verbal cues to address instructions to the guide-dog is a relevant pedagogical task for prospective guide-dog owners. Also, the Extracts show that verbal cues are the

primary resource for instructing the dog to accomplish navigational tasks during both outdoor and indoor mobility.

4.2 Instructing to reward the dog

The second instructional configuration identified in the data consists of a sequence where a verbal instruction produced by the trainer instructs the trainee to reward the dog. Rewarding the dog is a systematic component of the activity which occurs after the dog has successfully completed a previous navigational task. In this context, rewarding the dog is usually achieved by combining embodied and verbal resources, such as stroking and praising the dog, as in the following Extract.

Extract 3: Instructing to reward the dog

1 CAT **en avant//#**
walk ahead/forward
 dog **▣few steps -->**
 Fig. **#Fig. 1**



Figure 1

2 **(2.0) ▣ ▣(0.6)**
 dog **-->▣ ▣sits---**
 3 MAR **impeccable (.) *un gros gros calin=*
impeccable a big big cuddle
 dog **-->▣ *.....***
 4 CAT ***=c'est bien ma belle*#**
well done my sweetheart
 cat ***strokes CHEY's head ***
 Fig. **#Fig. 2****



Figure 2

5 MAR **gros gros calin**
big big cuddle
 6 CAT ***c'est bien ma belle\ (.) t'es belle\ c'est bien\
well done my sweetheart you are beautiful well done
 cat ***strokes cheeks and neck -->****

7 (1.1)
8 CAT **belle fille ça*#**
beautiful little girl this one
cat -->*
Fig. #Fig. 3



Figure 3

9 MAR **voilà ça c'est bon\ (.) c- c'est vraiment l'exercice**
that is this is good this is really the exercise
10 **qu'on doit faire à chaque fois.**
we have to do every time

At the beginning of the Extract, the trainee asks the guide-dog to proceed straight (line 1: *en avant* / “walk ahead”). The dog complies with the instruction and the trainee-dog pair reaches a crosswalk. Here the dog stops and sits (line 2) despite not being instructed to do so¹. By stopping before the road crossing, the dog ensures the blind trainee’s safety, reason why the trainer assesses the dog’s conduct very positively (line 3: *impeccable*) and then instructs the trainee to reward the dog with “a big big cuddle” (line 3: *un gros gros calin*). This instruction explains how to implement the rewarding by emphasizing the use of tactile resources. The trainee delivers the reward by simultaneously stroking the dog’s head and praising her (line 4: *c’est bien ma belle*).

This sequence is then repeated as the trainer repeats the instruction *un gros gros calin*/ a big big cuddle (line 5) and the trainee again strokes the dog’s head and increments her previous praise by repeating *c’est bien ma belle*/ “well done that’s good my sweetheart” (line 6:) and adding compliments (line 6: *t’es belle*/you are beautiful; line 7: *belle fille ça*/beautiful little girl this one) followed by a third repeat of *c’est bien* / “well done” (line 6).

The analysis of Extract 3 has shown how rewarding the dog is accomplished by combining verbal and embodied resources. Also, Extract 3 provides a clear illustration that, in the setting under investigation, guide-dogs, rather than being mere executors of commands, are configured as participants capable of interpreting the previously received instructions (i.e., to go forward) in the light of the evolving contingencies of the road (i.e., reaching the end of the sidewalk), and of adopting a conduct (i.e., stop before crossing) that is appropriate to their role as assistants to the mobility and safety of the blind pedestrian they are accompanying. At the end of the Extract (lines 8-9), the trainer proposes that the whole exercise, which includes the rewarding, is repeated, presumably to consolidate this dog practice.

¹ The dog has not been verbally instructed to sit, but she is expected to (has been trained to) do so. From the point of view of the trainer, this scene is a set-up to test if the dog will stop in any case in front of a cross-road (even if being given a contradictory cue by the trainee).

The following Extracts show that the pedagogical relevance of rewarding the dog when he/she has performed a task correctly is incorporated into the blind-dog interaction as a result of repeated training. Indeed, in Extracts 4 and 5 below, the trainee initiates the rewarding trajectory earlier than the trainer's instruction.

Extract 4: Anticipating the instruction to reward the dog

1 CAT ***c'est bien:#[*c'est bien ma belle\]** **c'est très**
well done. well done sweetheart it's very
 cat ***strokes head* *strokes cheeks and neck -->**
 Fig. #Fig.4



Figure 4

2 MAR **[gros gros calin]**
big big cuddle

3 CAT **bien # ma belle**
well done sweetheart
 Fig. #Fig.5



Figure 5

4 MAR **hein bon elle a bien fait son vira/ge***
well she made her turn well
 cat -->*

The dog has accomplished a series of complex actions just before Extract 4 begins, and she stopped before a crosswalk to signal it to the blind trainee like in Extract 3. In this case, the trainee starts rewarding the dog with strokes and praises (line 1) before she is instructed to do so by the trainer (line 2). The trainee adjusts to the trainer's overlapping instruction (line 2) in an emergent way as she upgrades her initial praise (lines 1-2: *c'est bien ma belle* "well done my sweetheart" becomes *c'est très bien ma belle* "very well done my sweetheart") incorporating the trainer's suggestion to address the dog with "a big big cuddle". The incremented reward is also achieved through incremental use of tactile resources: the trainee goes from stroking the dog's head (beginning of line 1) to stroking more "intimate" parts of the dog's upper body such as her cheeks and neck (lines 1-4). As

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in Extract 3, also in this extract, while the trainer’s instruction only mentions tactile rewarding (“cuddle”), the trainer implements the reward by combining tactile and vocal resources.

Overall, by anticipating the trainer’s instruction, the trainee displays (a) her understanding of the dog’s conduct as an action specifically aimed at securing a safe road crossing, which is worthy of recognition, and (b) her mastery of the routine practices for rewarding the dog in relevant circumstances. This latter aspect is particularly evident in the following extract.

In Extract 5, the trainee starts rewarding the dog earlier with respect to the trainer’s instruction (as in Extract 4), and she rewards the dog using both vocal and tactile resources despite the trainer produces a vague request to “congratulate” the dog.

Extract 5 Anticipating the instruction to reward the dog

```

1   MAR   *là\ (0.3)   *là           *vous [pouvez la féliciter
           there      there           you can congratulate her
           cat   *hand on head*foot on sdw*strokes-->4
           che
           α..αwalks-->>
2   CAT           [c'est bien/           ]
           well done
3 -> MAR   et [en avant tout droit ]
           and forward straight
4   CAT   [c'est bien\ ma belle]*
           well done sweetheart
           cat           -->*
5           (0.7)
6 -> CAT   c'est bien:\ tout droit/
           well done      straight

```

At line 1, when the trainer starts delivering the instruction (*là vous pouvez la féliciter* / “there you can congratulate her”), the trainee is already placing her hand on top of the dog’s head, which is seen as initiating the rewarding. Hence, both the trainer and the trainee are simultaneously oriented to that moment as constituting a transition between the dog’s fulfilment of the previous task (not shown in the transcript) and the next phase of the overall exercise, i.e. rewarding. While the trainer’s instruction does not specify how to “congratulate” the dog, the trainee implements the reward in the routine way observed with reference to Extracts 3 and 4, that is, by stroking the dog’s head (lines 1-4) and praising the dog verbally (line 2: *c’est bien* / “well done”; line 4: *c’est bien ma belle* / “well done sweetheart”).

The analysis so far has shown that instructions to reward the dog highlight the pedagogical character of the exercise: the blind-dog pair is still in training, and it is important to keep the dog’s motivation intact. In both Extracts 4 and 5, by anticipating the trainer’s instruction, the trainee displays that they have routinized rewarding

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as an integral part of the exercise and as a crucial pedagogical resource for consolidating the partnership with their guide-dog.

Overall, the analysis of Extracts 1 - 5 has illustrated that there is a distribution of vocal and tactile resources according to the type of action that is to be addressed to the guide-dog. While getting the dog to accomplish a subsequent navigational task is achieved by exclusively relying on verbal cues, rewarding the dog once he/she has successfully completed such task entails a combination of tactile and vocal components. The following section proposes the analysis of an additional activity (correcting the dog's conduct) which is preferably implemented using embodied rather than verbal resources.

4.3 Prompting a correction in the dog's conduct

The previous section has shown how rewarding the guide-dog after he/she has completed a task is achieved through instructing and instructed actions. However, the dog's conduct sometimes needs to be corrected, particularly when the dog failed to accomplish a previously instructed action. In this case as well, the trainer produces instructions to show the trainee how to prompt a correction in the dog's conduct, and the trainee implements the instructed actions, as in the following extract.

Extract 6: Prompting a correction in the dog's conduct

1 MAR **mettez la assis:**
have her sit down
 (1.3)
 2
 3 CAT **AssIs**
sit down
 (1.3)
 4
 5 CAT **cheyENNE A(.)ssis#**
cheyenne sit down
 Fig. #Fig.6



Figure 6

6 + (2.8) +
 dog +sniffs the ground+
 7 CAT **che*yenne// # AS*SIS**
cheyenne sit down
 cat *pulls the leash*
 Fig. #Fig.7

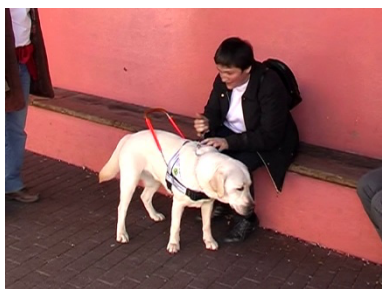


Figure 7

8 (0.7)
 9 MAR **allez faites claquer la voix (.) et la laisse**
come on make the voice and the leash slam
 10 CAT ***ASSIS # ***
sit down
sharp pull on the leash

Fig. #Fig.8



Figure 8

11 MAR **+AH: bien\+ alors celui-ci+ #il était bien (0.7) celui-ci l`ptit**
oh well done so this one was good this one the little
 dog **+.....+sits down +**

Fig. #Fig.9



Figure 9

12 MAR **coup qu`vous nous avez mis avec la laisse là/ (.) vous me le**
snapping you did with the leash you shall
 13 **refaites tout le temps comme ça hein/**
do it all the time like this
 14 **(1.2)**
 15 MAR **vous avez vu en plus c`est efficace**
you see and it works

The excerpt begins as the pair has reached a bench: the trainer has previously instructed them to sit down for a while (not shown in the transcript). The trainee sits down, but the dog is apparently reluctant, so the trainer formulates the verbal command *mettez la assis* / “have her sit down” (line 1). The trainee repeats the verbal cue with slight insistence (line 3: *AssIs* / “sit down”) but the dog does not sit accordingly. Following a pause (1.3 s), the trainee repeats her command, this time adding the address name “cheyenne” (line 5: *cheyenne Assis* / “cheyenne, sit down”). Since the dog is sniffing the ground, resisting the verbal cue, the trainee repeats the cue

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again with an even louder voice (line 7), and supplements it with a sharp pull on the leash (Fig. 6). Confronted with the noticeable absence of response from the dog (Fig. 7) despite these repeated orders, the trainer recommends acting: at line 9, he instructs to “make the voice and the leash slam”. This instruction solicits the trainee to enhance her previous attempts to correct the dog’s conduct by adjusting (strengthening) both her use of voice and of the leash to prompt the dog to sit. Both modulating the voice loudness and the strength with which the trainee pulls the leash are configured here as relevant embodied components for accomplishing a corrective action. On the fourth occurrence of the verbal cue, this time delivered very loudly (line 10: *ASSIS* / “sit down”), the trainee makes a sharp pull on the leash (Fig. 8). The dog immediately sits down (Fig. 9) and the trainer comments upon this last embodied correction (line 11: *celui-ci il était bien* / “this one was a good one”), referring to the fact that pulling on the leash should be reserved to correcting a faulty behavior as here – and should be realized very firmly, so as not to undermine its exceptional character. Compared to the instructions given to reward the dog analysed in the previous section, in this case the instruction consists in a detailed description of the embodied behavior the trainee must assume to get the dog accomplishing the task. Unlike what has been shown with reference to instructions to reward the dog (§ 4.2), in case of correction the type of actions to be taken are precisely described and the instruction is prescriptive as to the resources to be used.

The table below summarizes the findings of the analysis presented in sections 4.1, 4.2 and 4.3.

Table 1. Summary of instructional configurations

Activities	Actions and participants	
	Instruction (trainer)	Complying action (trainee)
	Formulates what to tell the dog to do next	Repeats verbal cue provided by the trainer addressing it to the dog
Getting a navigational task accomplished	<i>Dis lui traverse</i> / ‘Say cross to him’	<i>Traverse</i> / ‘Cross’
	Formulates what to do next with/to the dog	Implements relevant next action by combining tactile and verbal resources
Rewarding the dog after completion of previous task	<i>Là vous pouvez la féliciter</i> / ‘Here you can reward the dog’	Strokes the dog’s head and praises the dog (e.g., <i>C’est bien ma belle</i> / ‘Well done, sweetheart’)
Prompting a correction in the dog’s conduct	<i>Faites claquer la laisse</i> / ‘Make the leash slam’	Pulls the leash downwards and corrects the dog’s behaviour

4.4 Discussion

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This article has explored how visually impaired persons are trained to address and interact with their guide dogs in relevant ways. The knowledge of the vocabulary, particularly the use of standardized verbal cues, but also intonational and pitch aspects pertaining to the delivery of such cues to the dog appear crucial. However, blind participants also learn when *not* to rely solely on vocal resources: when dogs should be rewarded with stroking and other haptic conducts or, on the contrary, and more rarely, when they should be corrected.

The fact that dogs are generally *told* what to do next suggests that vocal and verbal forms of communication are favored practices. Touch and direct contact are not preferred as a way of giving instructions, contrary to the use of sticks as communicational devices, for instance with donkeys or elephants in specific historic-cultural contexts (Karippal, 2023). Mediated form of communication through vocal and verbal means is privileged as a way to perform navigational and assistance tasks. This rests on the idea that the highest degree of education presupposes to be able to manage the other's body from a distance, and to avoid physical force. Such a distance involves the mediation of symbolic language. The avoidance of physical coercion hints to the fact that the pinnacle of training is to be able to accomplish complex tasks with minimum apparent constraints. It is, in that respect, close to what the blind psychologist Bruce Johnston has called *Harnessing Thought* (1995).

But our data show more than just couples walking through urban space. They show participants engaged in an institutional and pedagogical activity, that of learning to interact with a new non-human partner. The participants are first and foremost engaged in an activity of "learning to learn" (learning to do; learning how, when and what to tell; learning to praise; learning to prompt corrections), and not only in a navigational activity of the kind they will have to carry out on their own later on.

Such activities make rewards and sanctions expectable: the prototypical instances of reinforcement, as systematized by Edward Thorndike. Indeed, animal training, and dog training in particular, is greatly influenced by behaviorism (see Crist and Lynch, 1990 [2022]; Hearne, 1986; Goode, 2007 for stimulating discussions), and modern forms of training tend to favor positive reinforcement. Rewards are treated as fundamental instruments in this process: they allow dogs to identify the expected behavior, and this contributes to keeping them motivated. The point we would like to make now is that the distribution of resources, with the use of embodied resources being limited to certain situations, reveals some underlying conceptions of animal training and interspecies communication.

The literature on training tends to oppose behaviorist and mentalist conceptions, but what the analysis of our data shows is that even when the process is based on an apparent behaviorism (vocal command operating as a stimulus, followed by a response in the form of embodied realization of the command), this process is actually based on expectations that presuppose a high degree of mentalization and "skillful minds" (Johnston, 1995) on the part of the animal, so that this distinction is actually more complex than it may appear (see AUTHOR, 2020 for further developments).

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This tension between behavioristic presuppositions on the one hand and the life-world of ordinary practices on the other, already noted by phenomenologists and ethnomethodologists in different contexts (Wieder, 1980, in chimpanzee research; Crist & Lynch, 2022 [1990] in dog training) is representative of the different, co-existing yet paradoxical, conceptions of the dog as an instrument of assistance as well as as a participant endowed with complex forms of reasoning and agentivity (Koski & Bäcklund, 2015).

4.5 Conclusion

Drawing on videorecorded data from training sessions in French in which trainers accompany blind trainees during the accomplishment of navigational tasks such as crossing a street and heading for a door or a sidewalk with the guide-dog, this article has investigated how blind participants are trained to use vocal and embodied resources to interact with their guide-dogs.

The results show that vocal and tactile resources are used to deliver rather different actions to the guide-dog. Vocal resources are primarily employed to get the dog accomplish a subsequent mobility assistance task such as crossing a street and heading for a door or a sidewalk; tactile resources are employed to reward the dog (e.g., stroking his/her head) and to correct their conduct (e.g., pulling the leash or harness). Such differentiation of resources configures the guide-dog not only as an aid to mobility (as is the white cane), but as a participant to, and recipient of, social actions entailing both practical and affective aspects.

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