

"Pocketing" Research Data? Ethnographic Data Production as Material Theorizing

Journal of Contemporary Ethnography I-21 © The Author(s) 2020



Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/0891241620968262 journals.sagepub.com/home/jce



Christine Neubert 1 and Ronja Trischler 2 to

Abstract

We analyze the relations between ethnographic data and theory through an examination of materiality in research practices, arguing that data production is a form of material theorizing. This entails reviewing and (re-)applying practice-theoretical discussions on materiality to questions of ethnography, and moving from understanding theory primarily as ideas to observing theorizing in all steps of research practice. We introduce "pocketing" as a heuristic concept to analyze how and when ethnographic data materializes: the concept defines data's materiality relationally, through the affective and temporal dimensions of practice. It is discussed using two examples: in a study on everyday architectural experience where ethnographic data materialized as bodies affected by architecture; and in a study on digital cooperation where research data's materialization was distributed over time according to the use of a company database. By conceptualizing data's materiality as practice-bound, "pocketing" facilitates understanding the links between data and theory in ethnographic data production.

Keywords

materiality, data production, practice theory, affect, temporality

Corresponding Author:

Christine Neubert, Department for Sociology, University of Hamburg, Welckerstr. 8, Hamburg, 20354, Germany.

Email: christine.neubert@uni-hamburg.de

¹Department for Sociology, University of Hamburg, Hamburg, Germany

²Department for Sociology, Goethe-University of Frankfurt, Frankfurt/M, Germany

Introduction

On their sites of research, ethnographers regularly produce something, or rather *some things*, to take with them: field notes and drawings, and audio or video recordings, as well as impressions, memories, or new physical skills. As part of research practices, such things can become data. In this paper we analyze initial moments of data production, asking how ethnographic data materializes (already) in the field. Our practice-oriented analysis contributes to a better understanding of how emerging data is part of ethnographic theorizing. Discussing the relation between ethnographic method and theory reveals particular challenges concerning on-site data collection, because the way ethnographers translate what they observe in the field into ethnographic knowledge is often implicit and *practice-bound*. Focusing on data's materiality, we want to explore the potential of applying practice theory in a reflection on the relations between method, data and theory in ethnographic research.

To explore how data materializes on site, we introduce the heuristic concept of "pocketing." We suggest that its—intuitive, yet provocative—image of "extracting" research data as something solid or immutable from the field for later use is a useful frame for our analysis. It helps us to highlight the practical production and material constitution of data in epistemic practices, while at the same time considering data's role in these practices critically. Simply put, taking notes or pictures etc. in the field to take home is—of course—never pre-theoretical (nor "just extracting"), but it already involves some form of understanding about what is being observed. Thus, when we write about "pocketing" research data, we want to detail what materializes how in the field, and in what way the materialization of data is related to practice. The concept of "pocketing" shows that the materialization of data—as a product of a material theorizing—is structured by the affective and temporal orders of practice on site.

In the first part of the paper, we discuss how practice theory helps to describe the link between ethnographic data production and theorizing. We do so by praxeologizing our own research: from this perspective, data, method, and theory are all practice-bound—and can be observed through their materializations in practice. This implies a strong concept of practices, claiming that practices organize social events materially, temporally, and affectively. This means that theorizing, too, is observable through what ethnographers do and say as well as what they record: as material practices of categorizing and ordering. As participants of practices, ethnographers, by means of their bodies and (research) artefacts, make intelligible and relevant how they understand what they observe in situated actions. We are interested in the co-constitution of bodies, things, and ideas in practice: materialities—including research data—appear empirically as products of practice.

In the second part of the paper, we apply and detail these arguments by asking how ethnographic data materialized on site in our own research. To show that the affect and temporality of the practices in the field structured the process of materialization, we reflect on data production in two ethnographic case studies: the first case compares different work practices regarding architectural experience; the second focuses on cooperative practices in digital visual design for post-production for film and television. Each case study posed a distinct challenge for "pocketing": How can ethnographers take an experience of a building with them, and how can digital data (bases) turn into research data for studying cooperation?

Ethnographic Data and Practice Theory

Ethnography can be analyzed as a "bundle of practices": an ordered set of activities, people, things, and ideas (Schatzki 2016, 31). "Praxeologising" (Schmidt 2017, 143) ethnography opens up new perspectives on different demands and problems of research. It decentralizes the human part in sociality and sees research practices as composed of human researchers *and* their non-human tools, in interaction with things, rules, and participants in the research field. This argument has special impact when applied to ethnographic theorizing (cf. Schmidt 2017), which is traditionally considered a *cognitive* process. We take this empirical "test" of practice theory one step further by looking at practices of theorizing *in the field* that are often messy due to ethnographic immersion in the field.

In this section, we make two major arguments: first, we argue that practices and their materialities are co-constitutive and highlight the affective and temporal structure of their relations. Second, we examine the consequences of this relation for ethnography and suggest understanding data production as material theorizing in the field. Based on these deliberations, we use the concept of "pocketing" to analyze emerging data as a particular kind of materialization, produced by and dependent on ethnographers' doings and sayings in the field.

A Practice-theoretical Perspective on Materiality

The question of materiality has gained momentum in the social and cultural sciences beyond practice theory in recent decades. While there is still debate on its consequences for different forms of social research (Kissmann and van Loon 2019; van Dyke 2015), many authors agree that materiality cannot be discussed independently from theories of knowledge. The sociological debate on materiality has moved beyond a mere consideration of the participation of

non-humans, put forth prominently by Latour and Woolgar (1986). For instance, Schmidt (2019, 147) formulates a new key question for the sociology of social order: "In what units and entities does the relevant social phenomenon assemble?" This entails asking to what extent and under what conditions research phenomena emerge and manifest materially and how their materiality is made intelligible. Thus, questions of materiality should be answered with reference to empirical research. This insight is linked to defining the material dimension of things relationally by being sensually perceptible (Barad 2003, 34), which follows a broad understanding of the term material. Consequently, different things entail different sensory experiences and so might "the same things" in different contexts. Thus, the programmatic goal of this "New Materialism" (Barad 2003; for an extensive discussion see Coole and Frost 2010) is "to emphasize the incompleteness of the material [and] to understand the material as a zone of intense becoming" (Folkers 2013, 30, own translation).

In this context, eminent scholars of practice theory claim that the "zone of becoming" is always bound to social practices (Schmidt 2019, 140).² While most practice theoretical approaches agree on the plurality of materiality and its social effects, they differ on how things emerge. For the sake of analyzing the materiality of ethnographic data, we consider "relational materialism" (Gherardi 2017, 39) to be a suitable position: in this view, "[r] eality is defined as things-in-phenomena and not as things-in-themselves" (Gherardi 2017, 41). This approach highlights the following three arguments in particular:

Practices are observable as material events. All elements of a certain practice—people, artifacts, ideas, norms, emotions, and memories—materialize in localized practices. This means they become observable: this does not only refer to the visibility of practices, but more broadly to their intelligibility. As Schatzki explains, people always perform bodily what makes sense to them, and thus "practical intelligibility" (Schatzki 2001, 55) can be observed in any noticeable output of a situation. Focusing on how these outputs connect different situations, Scheffer (2004, 368) defines materialities, relationally, as "out of reach for direct interaction [. . .] They appear and work as 'material' for the focal setting [. . .] due to their different mode and rhythm of becoming: the drafting of texts, the compiling of files, or the training of bodies."

Practices organize social events temporally. Although their temporal unfolding is always empirically unique and localized, practices can be defined through their reoccurring structure: Schatzki (2010) speaks of "indeterminate teleological

5

events". Through their repetition, practices support social processes of ordering, stabilization and reproduction (Gherardi 2017, 39; Reckwitz 2002), e.g. as an "institutional rhythm" (Buch and Stjerne 2018). When understanding materiality and temporality relationally (Sørensen 2007, 10), we see that materialities are produced in time—and also produce time. Thus, different materialities can be distinguished further by looking at their temporal entanglements in practice.

Practices organize sensory experience, affects and motivation. Human beings participate in practices permanently (even when they think, sleep, or are otherwise silent). In doing so, they are both participant and performer, indicating a shared implicit knowledge that is bodily habitualized. Gherardi (2017, 44) discusses this as "embodiment." Similarly, we understand "the body" not in a dualistic opposition to its surroundings; rather the surroundings take part in the constitution of a body, including its capacities to sense, as a relational process. Affordances and affects "only ever exist in relation to certain practical accomplishments" (Schmidt 2019, 143). Affects motivate participants to take part in practices (Reckwitz 2017, 120) in which they (unconsciously) follow a "teleoaffective structure" (Schatzki 2001, 58) embedded in every practice and restored in each of its "observances."

Ethnographic Data Production as "Pocketing"

While practice theory (in general) is open to different methodological approaches, reconstructing the *materiality* of practices requires specific methodological lenses (Schäfer, Daniel, and Hillebrandt 2015, 10). Ethnography holds great potential in this regard (Gherardi 2019, 201). It relies on the observability of practices based on their material constitution as well as the presence, physical sensing, and participation of the researcher in the local unfolding of practices (Schmidt and Volbers 2011). We now address the materiality of ethnographic data production from a practice-theoretical perspective.

Ethnographic theorizing. The concept of "pocketing" highlights ethnographic data production as a form of theorizing. We argue for a "low-threshold" definition of theory by looking at practices of *theorizing*. From a practice-theoretical perspective, theorizing in general refers to all activities of specialized categorizing, following, generalizing, and ordering made intelligible and relevant in practice (Schmidt 2017, 259). Such "reflexive, analytical and theoretical activities" (ibid. 141) are, according to Schmidt, "features of practices" that are observable (and not "just" cognitive processes). In this view, methods

of data production are part of sociological theorizing, which has been described as a longer practical process of "trial-and-error" (Swedberg 2016, 6) during research. Similarly, Hillebrandt (2016, 72) understands theories as emerging. This means that ethnographers' actions are also theoretically informed in the field: both on a general level, as ethnographers focus on the observable unfolding of social reality, and by the particular research question, as they have defined a site of research and decided on who/what to observe, when, and where—and how to document it.

From this perspective, theorizing is material. Theorizing is observable in practice through the activities and materials with which the ethnographers make their categorizations observable and relevant. This includes different data practices and data types, such as field notes or recordings, as well as memories and experiences, sometimes referred to as "soft data" (Campbell 1998; Pool 2017, 283). "Hardening" ethnographic experience into data is possible because data has fluid boundaries (Benzecry 2017, 32). As we now show in detail, the concept of "pocketing" makes this kind of ethnographic theorizing on site traceable and analyzable in terms of affective and temporal dimensions.

Affect and temporality in ethnographic data production. Because of their inevitable presence in a given research setting, the bodies of ethnographers have been acknowledged in ethnographic data production. Ethnography is a bodily endeavor and it is embedded locally: the ethnographer operates in a modus of "sensory immediacy" within the field, including its built environment (or other things) (Breidenstein et al. 2013, 33, own translation). As Hopwood argues, the detailed perception of the material dimension of the field is central to data production, for example, to "document the materiality of the walls" (Hopwood 2015, 60). Ethnographic descriptions become thick because of the ethnographers' "duty to see [...] hear [...], taste, smell, touch, and feel." (Hopwood 2013, 229). With the concept of "body geometries" Hopwood underlines how fieldwork reproduces its own relation to material arrangements on site, like walls, and therefore how research practice performs the ethnographer's body, moving and perceiving in multiple layers. In this context, the researcher's body has been problematized in terms of their subjectivity (Coffey 1999) or positionality, for example, as a marker of the ethnographer's "cultural or personal background" (Sedlačko 2017, 56). For the ethnographer, sensing and experiencing emotions can be a bodily sign of something materializing, which is linked to the teleoaffective structure of practice. Hence, we suggest exploring these affects, including how they relate to the ethnographer's own cultural or personal background, as

7

given in any research process and use ethnography's ability to generate data from it: by reflecting the sensory immediacy of the ethnographer in the field (or their bodily-physical memory of the events later; e.g. Gray 2016, 506). Affect—including different types of emotions, atmospheres, and moods (Reckwitz 2017)—ought to be taken seriously as one "locus of ethnographic knowledge" (Feldman and Mandache 2019, 229). Similarly, Deener (2017) suggests using ambiguity experienced in the field as an approach to sociological theorizing on site. An ethnography working with the concept of relational materialism allows zooming in on the process of data production, as material theorizing is structured by the affect of the researcher in the field.

The concept of "pocketing" also helps to analyze time as an observable dimension of practice, which structures data production. Whether relating to anthropological traditions like the Manchester School's questions on social change (Evens and Handelman 2008) or to sociological thought on situated interaction and performance (Knoblauch 2005), ethnography aims to register how social reality unfolds over time: "we are all processualists now" (Glaeser 2005, 38). As ethnographers participate in the practices they research, their research practices might affect the temporal order they observe: time is a product of ethnography, too. For instance, Ayaß (2020, 11) indicates that there are problems in observing the practice of waiting: "The observed situations, as a general rule, began and ended with my own waiting (on occasions, I would extend my presence artificially; but this repeatedly made my observer status questionable)." With regards to theorizing, it has been discussed widely how ethnographic understanding grows over time (also: "piling" data; Dirksen, Huizing, and Smit 2010, 1046), and how to define ethnographic cases temporally (e.g. as an "extended case," Burawoy 1998). Particularly conversation analysis foregrounds the possibilities of certain kinds of data (audio and video recordings) to capture the temporal sequence in which social practices unfold in detail (Knoblauch et al. 2012).³ These discussions consider data's materiality with respect to how particular technologies document practices, including the question of what a temporal order requires from data's particular materiality and how data use shapes the presence and participation of the researcher in the field (Mohn et al. 2019). Recently the transsequential organization of "data careers" throughout ethnography has also been analyzed as a contingent product of research practices (Meier zu Verl 2018). Our heuristic concept of "pocketing" adds to this line of research: because "pocketing" is concerned with the processual materialization of data in the field (data's becoming rather than its being), it takes into account both the influence of the temporality of particular practices on data, as well as how data production contributes to the production of time on site.

As part of a given practice, the ethnographer's bodily experience cannot be considered primarily subjective, nor is the time in which data materializes primarily an objective attribute of practices: with the concept of "pocketing," we analyze affect and time as observable and as structuring dimensions of material theorizing.

Analysis: "Pocketing" Data in Two Case Studies

How does ethnographic data on architectural experiences or digital cooperation materialize? On the basis of two case studies, we show, first, how the researcher's affective and bodily understanding of the practices on site is key to "pocketing" architectural experiences; and second, how tracing practices temporally facilitates "pocketing" digital cooperation. The case studies are based on short and sometimes repeated ethnographic visits to different work places (varying from a couple of days to two weeks). In her study, Christine Neubert asks questions about everyday knowledge of architecture. By comparing five different work places visited between 2013 and 2015 (an art museum, a factory hall, an art studio, a library, and a laboratory), she systematizes architectural experience in everyday life (Neubert 2018). Ronja Trischler is interested in sociotechnical cooperation in visual, digital post-production for film and television. She visited seven companies in the United Kingdom and Germany between 2013 and 2017.

"Pocketing" Architectural Experience

In the following, we focus on the bodily-affective dimension of "pocketing." Using examples of experiencing architecture in an art museum, a factory hall, and a library, we outline a bodily-affective directionality of ethnographic data production on site. By showing different ways of bodily-affective participation in the field, it becomes apparent that the materialization of data in this case study proceeded through the ethnographer's body, that is, her affect and movement.⁴

Walking in the museum. In this section, we reconstruct how data emerged from the ethnographer's own bodily activity. We demonstrate how the ethnographer's walking with art museum attendants became central to "pocketing" their everyday architectural experiences. In the museum, the ethnographer walked with the attendants to get involved in the telos and affective structure of the observed practice of attending. This practice consisted in walking in a special way:⁵

I talk to an attendant at the entrance, and she simply walks off. I go with her. Upon arriving at the entrance again, we simply walk, while talking further. We ignore the two other attendants who stand there and also talk, but walk through, in between them. We repeat that. Altogether, we walk three rounds. (2015-03-24)

As documented in the field note, a basic ethnographic research practice like walking (with someone) became walking like the attendants. The activity of the attendants—which was coded as the practice "doing rounds" unfolded by continuously walking in pairs and talking passionately, generally without paying visible notice to other colleagues, the art works, or the local architecture. The repeated "simply" as a symbolic reflection in the field note shows the ethnographer's surprise about her own bodily understanding of the everyday practice (and so: an architectural experience) through materialization in terms of a specialized way of walking. There was no time to stop at the entrance or for looking around the building like a common visitor would do. To participate in "doing rounds" as a focused walking practice is data generated within the researcher's bodily presence, and activity, because she is part of this central, bodily dimension of experiencing architecture. In Merleau-Ponty's words, "[b]y considering the body in movement, we can see better how it inhabits space (and, moreover, time) because movement is not limited to submitting passively to space and time, it actively assumes them, it takes them up in their basic significance" (2005) [1945], 117). "Pocketing" architectural experience, which means understanding the field in practice—on site and with data—happened bodily by moving in a certain way through the building.

Seeing in the library. With a second example, we illustrate how the ethnographer's experience can manifest bodily over time. This bodily dimension of "pocketing" concerns the experience of architecture via the ethnographer's own eyes, which suffered from dryness after having been exposed to the field. As the researcher herself had been working in the library as a research assistant for several months before her research project on architectural experience started, data was already generated through the ethnographer's eyes prior to "pocketing" this particular perception within the frame of architectural experience. In this case, material theorizing became apparent after the dry eyes had been treated, as a consequence of being physically present in the field. Due to a longer period of time participating in desk-based library work, the ethnographer noticed a loss of vision: she had to make more of an effort—blinking and squinting—to read on the computer screen. The ophthalmologist she consulted noticed a severe dryness of the retina and prescribed eye

drops. In the same week, in the first interviews with the library staff, the topic of "bad air" within the building became frequent: Interviewees told her about feelings of "having bad air" or indeed of "having no air," by which they meant extremely bad air. The air quality appeared to be an experience through which employees reflected on the location of their mainly desk-based work. Against this background, it was possible for the researcher to understand her dry eyes as an ethnographer in a "new" way and to "extract" the loss of vision ex post as part of the architectural experience in terms of air quality in her everyday working life. She had already experienced "with" the field before she was able to recognize this experience as data for her study on architectural experiences. The bodily-sensory materialization of library work is made intelligible through ethnographic research practice. The perceived dryness of the ethnographer's eyes due to the bad air could be seen as an early stage of ethnographic understanding. Therefore, "pocketing" was not accidentally disturbed by subjective perception, but was pushed by the ethnographer's bodily irritation from dry eyes during research.

Taking a break in the factory. The perspective of data production as a materialization facilitates a reflection of the "affective structure" (Reckwitz 2017, 119) of the bodily ethnographic practices. Therefore, the following example is concerned with the affective dimension of "pocketing." Visiting a factory hall, the ethnographer spent most of her time at the machines, observing and talking to workers, insofar as the activities and noise levels in the hall permitted. Noise, or, respectively, the acoustic character of the hall, turned out to be a dominant way of experiencing the built environment in everyday life (in general and especially in the factory). With regards to the factory hall, the ethnographer affectively registered the welcome perception of no such noise during lunch break. Sitting with the workers in the canteen (situated inside the factory hall), she noticed the pleasant absence of loud noise: all the machines had stopped. On site, she documented in her field notes:

For a while we just keep silent and look out of the window onto the square in front of the hall. It is pleasantly quiet here $[\ldots]$. The window is open, you can hear birds. (2014-06-18)

The ethnographer participated in the bodily-affective order of the break, indicated by sitting down, absorbing the silence, watching, and listening. Accordingly, the attention of ethnographic research practice coincided with that of the field: ethnography and the field took a break. However, this applied only to a limited extent to the ethnographer. The motivation to understand what

was going on in terms of the acoustic experience of the factory hall called on (the body of) the researcher to perceive and to note down. Through getting involved in the silence and being affected by it, the ethnographer paid attention to the difference between break and working practice. The affects in the workers' break functioned as a sensory hint for her as a researcher to register the local, acoustic perception as architectural experience. Thus, theorizing the everyday architectural experience in the factory hall also depended on affectively sensing practical needs. Ethnographic theorizing proved to be interwoven with the affective setting of the break and the canteen as its suitable, built environment. In order to "pocket" everyday architectural experience, the "given" of one's own on-site affects was a key to the materiality in the field.

"Pocketing" Digital Cooperation

Using a study on digital cooperation in the production of "visual effects" (VFX) for film and television, we now show how temporal orders of practice influence the way research data materializes on site. We use this case to discuss the temporal dimension of "pocketing," because the organization of time became crucial in analyzing digital cooperation in VFX companies. Particularly in each company, a VFX database facilitated "a temporal division of labour" (Scheffer 2004, 388) by materializing cooperation over time. Databases have been discussed as part of informational infrastructures (Karasti and Blomberg 2018) or coherent "socio-technical artifacts" (Burns and Wark 2020, 607). In ethnographic observation, the materiality of the VFX database became visible relationally as part of different cooperative practices (e.g. assigning tasks, updating drafts, and supervising work progresses). We analyze its simultaneous use as a repository and as a communication device to discuss how these cooperative uses affected ethnographic data. Thinking of data production on site in terms of the relations between time and materialization helped understanding the particularities of digital cooperation.

Browsing the Database

"Pocketing" digital cooperation in visual post-production companies for film and television relied on the ethnographer browsing their databases. Generally, her research data on the use of a VFX database materialized and grew constantly during her research in a company,⁶ and with it her understanding of its cooperative functions. She continuously accumulated data because in each company she visited, the database was used regularly by everyone as collective repositories in the VFX companies. Storing and

sorting digital data in the database—as cooperative practices—shaped how research data materialized. Team members saved work progresses by updating the database entries, for example, adding new design elements like 3D-models or "comps" (image composites) that were then listed by date and "version number" in the database (see Table 1). Thereby they made their work permanently accessible to colleagues. The storage also allowed consistent ethnographic access: again and again, the ethnographer watched and documented employees open and browse its entries; and also browsed it herself when (and if) possible. Like the employees, she could always return to the database during her stay with a company, for example to look up previous "versions" of a VFX design. Ethnographic data on the database materialized continuously—just like the database was used on a daily basis for the cooperation, growing (almost) each day (see "date created", table 1). "Pocketing" on site, meaning understanding digital cooperation in practice through research data, was structured by the temporal dimension of the database practices.

In this continuous materialization of research data, it became clear that storing—as a cooperative practice had a distinct temporal dimension. It implied *continuous* work: not only with respect to the maintenance of the servers and operating system that the database ran on but also to sorting, labeling, and linking data entries. This cooperative practice was reflected in the ethnographic data, too: observing temporally distributed database practices produced temporally distributed research data, materializing on different pages of journals and in numerous files that had to be organized by the ethnographer. By sorting visual effects as "versions," using naming conventions (see column "version name," Table 1) or adding "descriptions," employees made their specialized uses "accountable" (Garfinkel 1967) for others in the database. Not the standardized database functions, but their repetitive specialized use throughout projects formed the cooperative practice of sorting. Sociotechnical accounts in the database like abbreviated technical terms as "descriptions" ("cg" for computer generated or "crowd rep" for crowd replication, Table 1) made different local uses of its entries easier, and thus facilitated cooperation (like other shared repositories, Star and Griesemer 1989). This can be illustrated further with another example. In one company, the "version number" helped "VFX editors" find new versions in the database to be shown in daily screenings: this preparation materialized in the one-and-a-half minutes of ethnographic recording (1m25s, Table 2) before the editor was "good to start" at the beginning of a screening; subsequently, the results of this work became visible on screen (1m53s). The editor's work was facilitated not by talking to present colleagues, but by intelligible database entries: although not

Table 1. Anonymized Database Entry on "Versions" (Excerpt) of Digital Composites ("Comp") for a Visual Effects Shot (2016-11-08; 10:31am).

	Filter	Date created		06 Sep 16 9:56am	01 Nov 16 06:36pm	03 Nov 16 07:18pm	04 Nov 16 05:32pm	Yesterday 12:33pm	Yesterday I 2:03pm	Yesterday 09:21pm		
	▼ Search version	Description (artist)		wip crowd test	wip slap comp	wip dist bg extension, updated cg, some atmos, rhs roof moss	wip extra cg buildings, sky fix	wip roto building	wip	wip crowd rep, lhs ground, building grade		
	More ▼	De										:
		Artist		[Dan]	[Kate]	[Kate]	[Kate]	[Kate]	[Kate]	[Kate]		[···]
	Fields ▼			_Version001]								
	{ Group	Version Name		[Show_Episode_Sequence_Shot number_comp_Version001]	[Version002]	[Version003]	[Version004]	[· · _Version005]	[· · _Version006]	[· · _Version007]		e_Shot number_dmp_
	^ Sort ▼	Ne.										[Show_Episode_Sequence_Shot number_dmp_Version001]
Versions	+ Version	Thumbnail	Comp	[image]	[image]	[image]	[image]	[image]	[image]	[image]	Dmp	·
Ver												

[Im25s]

Editor:

[0m00s] Notes: I start the audio recorder when the supervisor and team members enter the screening room and sit down on the cinema seating.

Table 2. Combined Field Notes and Audio Transcript (Excerpt) from a Screening (2016-11-08, 11:15 am).

The company logo in front of a monochrome black background [Im50s] Notes: [lm53s] abbears on the screen. The light is switched off. On the screen [the "fort shot"] starts

((audible typing for 18 seconds))

"lust tryin' to (2) cool (3) ok (I'm good to) start now"

being looped.

exactly "broken data", they were certainly "contingent on other processes of development around it" (Pink et al. 2018, 1). Such cooperative accounts on which "version" was relevant when and for what purpose materialized in different research data: linking different on-site observations, cooperative accounts helped "pocketing" digital cooperation. Ultimately, the ethnographer even adopted aspects of the cooperative practices of storing and sorting in her own organization of research data. For example, in her computer files, she listed the screenshot that Table 1 is based on under the keyword "fort shot" (Table 2), indicating the connection between the data from the screening (Table 2) and the VFX database.

Logging in to the database. As the VFX database was used not only for storing but also as a (real-time) communication device within the companies, it also mattered—for "pocketing" digital cooperation—when it was accessed to import or export data ethnographically. The sequential, more fleeting temporality of this second kind of cooperative database-use also manifested in the research data: it facilitates an account of the *chronology* of particular moments in which data materialized.

Using the database, employees' local workstations connected to a "cooperative now" of shared work projects. This digital connection affected the sequential unfolding of work practices—and the ethnographic theorizing on site. During the ethnographer's visits, only three of seven companies allowed direct, unsupervised research access to their database—via an account, a password, and a desktop computer connected to the server. Company seniors explained the restrictions with the reason that a login allowed for direct and sometimes permanent changes to the database. Thus, logging in meant (potentially) becoming part of the informational reality of the screen-based "synthetical situations" (Knorr Cetina 2009) in the companies: the ethnographer watched employees check the database regularly, in order to receive information on their new tasks—importing data—or to upload their work—exporting

data. In its everyday use, the database was treated as a display of the current state of cooperative affairs. It provided temporal orientation concerning the "practical question par excellence: "What to do next?"" (Garfinkel 1967, 12). For example, the ethnographer watched a project supervisor wait for an employee's task to show up as "completed" in the database so that he could send it out to clients. The ethnographer noted down that the supervisor opened and examined the file when it was ready, and then asked an employee to fix one last problem with the visual effects they were working on. It was observable locally how the database became relevant for cooperative communication: the temporal urgency of the "cooperative now" manifested in waiting for the sign "completed," which functioned as a hint for "pocketing" the temporal dimension of cooperative communication.

Conclusion

Praxeologizing ethnography, we have argued for an understanding of ethnographic data production as *material theorizing*, which can be observed in different research activities, tools, and bodies. With our heuristic concept of "pocketing," we asked how and when ethnographic data materialized in practice: we framed data's materiality relationally by analyzing the bodily-affective and temporal structures of practices in the field. By way of these practical entanglements, we suggested, data's relations to practice come to show. We illustrated how ethnographic data materialized as bodies affected by experiencing architecture, for example, while doing rounds in the museum; or as field notes and data files distributed according to the temporal cooperative use of a database for storing work, as well as for real-time-communication in digital cooperation.

By using the concept of "pocketing" to look at data production as material theorizing, we dealt with an ambivalence that ethnographers know all too well: producing data implies "extracting" something from the field, while knowing that this "something" is in process of materialization while the researcher is in the process of understanding "what is going on". The ethnographic research objects we used to discuss "pocketing"—everyday architectural experience and digital cooperation—are neither easy to discover in the field nor could their perceptible dimensions be clearly defined in advance. Yet both can be observed in acquired skills, large and small movements (walking and filtering database entries), and in *knowing how* (Polanyi 1966; Shove, Pantzar, and Watson 2012) to perform the duties of a museum attendant or to use a specialized database. In order to understand architectural experience on site, the ethnographer walked, sat, and listened—and registered changes in her own body (e.g. new skills, dry eyes) as materializations structured by the

observed practices. Focusing on everyday architectural experiences, "pocketing" took place in the researcher's body and affect. Similarly, in order to understand digital cooperation, observing when data materialized became relevant. Research data on the digital database materialized over time—repeatedly and in sequences—with reference to the specialized cooperative use of the database in the field (e.g. storing and communicating). Thus, the way research data was distributed materially was a consequence of practices of digital cooperation. Time also influenced the materialization of data on architectural experience—as did affect for digital cooperation—and the relations between time and affect could be further explored. Yet, our examples show clearly how ethnographic data materializes in relation to specific temporal and bodily-affective structures of practices in the field. Hence, with the concept of "pocketing," we specified material theorizing in ethnography: the relations between data, method, and theory can be described with reference to their particular bodily-affective and temporal structures.

To conclude, we suggest that this practice-theoretical perspective on data production is increasing reflexivity in ethnography. First, by analyzing practical entanglements and claiming that data's materializations depend on the practices they are part of, the fragility of data's materiality comes to show: the ethnographer's dry eyes needed to be treated medically, and distributed research data needed to be sorted and organized to make sense of it. Thus, a practice-theoretical perspective is useful for an appreciation of the shifting shapes of data in the research process beyond data production in the field: data's varying role(s) and potentials for theorizing can be analyzed, and also the different ways ethnographers continuously take care of their data. Second, the concept of "pocketing" shows how, already in the field, "the researcher tells a particular story from among those that are possible" (Sedlačko 2017, 56): researchers do so in practice, and thus also materially. Sociological knowledge, from a practice-theoretical perspective, belongs neither to the world of empirical evidence, nor to that of theory; theory, methods, and data are all part of all practices throughout the research process, yet linked differently. Thus, for reflexive research, "pocketing" constitutes a novel, insightful view on ethnographic data production.

Authors' Note

The manuscript is a contribution to a special issue of JCE "Practices of Ethnographic Research", guest edited by Andrea Ploder and Julian Hamann.

Declaration of Conflicting Interests

The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

Funding

The author(s) received no financial support for the research, authorship, and/or publication of this article.

ORCID iDs

Christine Neubert https://orcid.org/0000-0002-2343-4974

Ronja Trischler Dhttps://orcid.org/0000-0001-6938-0986

Notes

- 1. To indicate the concept's intended heuristic, critical value, "pocketing" remains in inverted commas: data is of course produced *by* and *for* ethnographers, and shifts shape and meaning throughout research.
- 2. Yet, the field of practice theory is diverse with a variety of emphases, for example, on habitus (Bourdieu 1990), sociomateriality (Gherardi 2017), media and technology (Magaudda and Minniti 2019), or boundaries (e.g. between action and practice, Hirschauer 2016).
- 3. There is a growing body of literature on sociological practices of data analysis that considers the sequential unfolding of research practices and their materiality (Tutt and Hindermarsh 2011; see also Meier zu Verl and Tuma in this special issue). For a discussion of time in ethnography, see Scheller 2020.
- 4. In this analysis, "the ethnographer" or "the researcher" always refers to the specific person conducting the research who also appears as the first-person narrator in the data (here: Christine Neubert).
- 5. The field note excerpts have been translated from German by the authors.
- 6. "The ethnographer" (again) refers to the researcher who conducted the research in the field (for this case study: Ronja Trischler).

References

- Ayaß, Ruth. 2020. "Doing Waiting: An Ethnomethodological Analysis." *Journal of Contemporary Ethnography*: 1–37.
- Barad, Karen. 2003. "Posthumanist Performativity: Toward an Understanding of How Matter Comes to Matter." *Journal of Women in Culture and Society* 28 (3): 801–831.
- Benzecry, Claudio E. 2017. "What Did We Say They've Said? Four Encounters between Theory, Method and the Production of Data." *Ethnography* 18 (1): 24–34.
- Bourdieu, Pierre. 1990. *The Logic of Practice*. Cambridge, MA: Cambridge University
- Breidenstein, Georg, Stefan Hirschauer, Herbert Kalthoff, and Boris Nieswand. 2013. *Ethnografie: Die Praxis der Feldforschung.* Konstanz, München: UTB.
- Buch, Iben, and Sandal Stjerne. 2018. "What's New? Temporality in Practice Theory and Pragmatism." In *How Organizations Manage the Future*, edited by Hannes Krämer and Matthias Wenzel, 45–65. Cham: Palgrave Macmillan.

- Burawoy, Michael. 1998. "The Extended Case Method." *Sociological Theory* 16 (1): 4–33.
- Burns, Ryan, and Grace Wark. 2020. "Where's the Database in Digital Ethnography? Exploring Database Ethnography for Open Data Research." *Qualitative Research* 20 (5), 598–616.
- Campbell, Marie. 1998. "Institutional Ethnography and Experience as Data." Qualitative Sociology 21 (1): 55–73.
- Coffey, Amanda. 1999. Ethnographic Self. New Delhi: SAGE Publications.
- Coole, Diana, and Samantha Frost, eds. 2010. "New Materialism: Ontology, Agency, and Politics." *Journal of French and Francophone Philosophy* XIX (1): 153–164.
- Deener, Andrew. 2017. "The Uses of Ambiguity in Sociological Theorizing: Three Ethnographic Approaches." *Sociological Theory* 35 (4): 359–379.
- Dirksen, Vanessa, Ard Huizing, and Bas Smit (2010). "Piling on Layers of Understanding': The Use of Connective Ethnography for the Study of (Online) Work Practices." New Media & Society, 12 (7): 1045–1063.
- Evens, Terence, and Don Handelman, eds. 2008. *The Manchester School: Practice and Ethnographic Praxis in Anthropology*. New York: Berghahn Books.
- Feldman, Lindsey Rais, and Mandache Luminiţa-Anda. 2019. "Emotional Overlap and the Analytic Potential of Emotions in Anthropology". *Ethnography* 20 (2): 227–244.
- Folkers, Andreas. 2013. "Was Ist Neu Am Neuen Materialismus? Von der Praxis zum Ereignis." In *Critical Matter: Diskussionen eines neuen Materialismus*, edited by Tobias Goll, Daniel Keil, and Thomas Telios, 17–34. Münster: edition assemblage.
- Garfinkel, Harold. 1967. Studies in Ethnomethodology. Englewood Cliffs, NJ: Prentice Hall.
- Gherardi, Silvia. 2017. "Sociomateriality in Posthuman Practice Theory." In *The Nexus of Practices. Connections, Constellations, Practitioners*, edited by Allison Hui, Theodore Schatzki, and Elizabeth Shove. New York: Routlegde.
- Gherardi, Silvia. 2019. *How to Conduct a Practice-based Study*. Cheltenham: Edward Elgar Publishing.
- Glaeser, Andreas. 2005. An Ontology for the Ethnographic Analysis of Social Processes, *Social Analysis* 49 (3): 16–45.
- Gray, Patty A. 2016. "Memory, Body, and the Online Researcher: Following Russian Street Demonstrations via Social Media." *American Ethnologist* 43: 500–510.
- Hillebrandt, Frank. 2016. "Die Soziologie der Praxis als Poststrukturalistischer Materialismus." In *Praxistheorie. Ein soziologisches Forschungsprogramm*, edited by Hilmar Schäfer, 71–94. Bielefeld: transcript.
- Hirschauer, Stefan. 2016. "Verhalten, Handeln, Interagieren. Zu den Mikrosoziologischen Grundlagen der Praxistheorie", In *Praxistheorie. Ein Forschungsprogramm*, edited by Hilmar Schäfer, 45–67. Bielefeld: transcript.
- Hopwood, Nick. 2013. "Ethnographic Fieldwork as Embodied Material Practice: Reflections from Theory and the Field", *Studies in Symbolic Interaction* 40: 227–245.

- Hopwood, Nick. 2015. "Relational Geometries of the Body: Doing Ethnographic Fieldwork", In *The Body in Professional Practice, Learning and Education*, edited by Bill Green and Nick Hopwood, 53–69. Heidelberg, New York, Dordrecht, London: Springer.
- Karasti, Helena, and Jeanette Blomberg. 2018. "Studying Infrastructuring Ethnographically." *Computer Supported Cooperative Work* 27 (2): 233–265.
- Kissmann, Ulrike Tikvah, and Joost van Loon, eds. 2019. *Discussing New Materialism. Methodological Implications for the Study of Materialities*. Wiesbaden: Springer.
- Knoblauch, Hubert. 2005. "Focused Ethnography." Forum Qualitative Social Research 6 (3): Art. 44.
- Knoblauch, Hubert, Bernt Schnettler, Jürgen Raab, and Hans-Georg Soeffner. eds. 2012. *Video Analysis: Methodology and Methods: Qualitative Audiovisual Data Analysis in Sociology*. Frankfurt am Main, Berlin, Bern, Bruxelles, New York, Oxford, Wien: Lang.
- Knorr Cetina, Karin. 2009. "The Synthetic Situation: Interactionism for a Global World." Symbolic Interaction 32 (1): 61–87.
- Latour, Bruno, and Steve Woolgar. 1986 [1979]. Laboratory Life: The Social Construction of Scientific Facts. Beverly Hills, CA: SAGE Publications.
- Magaudda, Paolo, and Sergio Minniti. 2019. "Retromedia-in-Practice: A Practice Theory Approach for Rethinking Old and New Media Technologies." Convergence: The Journal of Research into New Media Technologies 25 (4): 673–693.
- Meier zu Verl, Christian. 2018. Daten-Karrieren und Epistemische Materialität. Eine Wissenschaftssoziologische Studie zur Methodologischen Praxis der Ethnografie. Stuttgart: J.B. Metzler.
- Merleau-Ponty, Maurice. 2005 [1945]. *Phenomenology of Perception*. Translated by Colin Smith. London and New York: Routledge Classics.
- Mohn, Bina, Pip Hare, Astrid Vogelpohl, and Jutta Wiesemann. 2019. "Cooperation and Difference. Camera Ethnography in the Research Project 'Early Childhood and Smartphone'." *Media in Action* (1): 81–104.
- Neubert, Christine. 2018. Gebauter Alltag. Architekturerfahrung in Arbeitsumgebungen. Wiesbaden: Springer.
- Pink, Sarah, Minna Ruckenstein, Robert Willim, and Melisa Duque. 2018. Broken data: Conceptualising data in an emerging world. *Big Data & Society* 1, 1–13.
- Polanyi, Michael. 1966. The Tacit Dimension. London: Routledge.
- Pool, Robert. 2017. "The Verification of Ethnographic Data." *Ethnography* 18 (3), 281–286.
- Reckwitz, Andreas. 2017. "Practices and Their Affects." In *The Nexus of Practices. Connections, Constellations, Practitioners*, edited by Hui, Alison, Theodore Schatzki, and Elizabeth Shove, 114–125. London: Routledge.
- Reckwitz, Andreas. 2002. "Toward a Theory of Social Practices: A Development in Culturalist Theorizing." *European Journal of Social Theory* 5 (2): 243–263.
- Schäfer, Franka, Anna Daniel, and Frank Hillebrandt. 2015. "Einleitung." In *Methoden einer Soziologie der Praxis*, edited by Schäfer, Franka, Anna Daniel, and Frank Hillebrandt, 7–12. Bielefeld: transcript.

- Schatzki, Theodore. 2001. "Practice mind-ed Orders". In *The Practice Turn in Contemporary Theory*, edited by Theodore Schatzki, Karin Knorr Cetina, and Eike von Savigny, 42–73. London/New York: Routledge.
- Schatzki, Theodore. 2010. The Timespace of Human Activity. On Performance, Society, and History as Indeterminate Teleological Events. Lanham: Lexington Books.
- Schatzki, Theodore. 2016. "Practice Theory as Flat Ontology" In *Practice Theory and Research. Exploring the Dynamics of Social Life*, edited by Gert Spaargaren, Don Weenink, and Machiel Lamers, 28–42. London: Routledge.
- Scheffer, Thomas. 2004. "Materialities of Legal Proceedings." *International Journal for the Semiotics of Law* 17 (4): 356–389.
- Scheller, Vibeke K. 2020. "Understanding, Seeing and Representing Time in Tempography." *Forum Qualitative Research* 21 (2).
- Schmidt, Robert. 2017. "Reflexive Knowledge in Practices." In *The Nexus of Practices. Connections, Constellations, Practitioners*, edited by Hui, Alison, Theodore Schatzki, and Elizabeth Shove, 141–154. London: Routledge.
- Schmidt, Robert. 2019. "Materiality, Meaning, Social Practices: Remarks on New Materialism." In *Discussing New Materialism. Methodological Implications for* the Study of Materialities, edited by Kissmann, Ulrike Tikvah, and Joost van Loon, 135–150. Wiesbaden: Springer.
- Schmidt, Robert, and Jörg Volbers. 2011. "Siting Praxeology: The Methodological Significance of 'Public' in Theories of Social Practices." *Journal for the Theory of Social Behaviour* 41 (4): 419–440.
- Sedlačko, Michal. 2017. "Conducting Ethnography with a Sensibility for Practice". In *Methodological Reflections on Practice Oriented Theories*, edited by Michael Jonas, Beate Littig, and Angela Wroblewski, 47–60. Wiesbaden: Springer.
- Shove, Elizabeth, Mika Pantzar, and Matt Watson. 2012. *The Dynamics of Social Practice: Everyday Life and How it Changes*. Los Angeles: SAGE Publications.
- Sørensen, Estrid (2007): The Time of Materiality. Forum Qualitative Social Research 8 (1), Art. 2.
- Star, Susan Leigh, and James R. Griesemer. 1989. "Institutional Ecology, 'Translations' and Boundary Objects: Amateurs and Professionals in Berkeley's Museum of Vertebrate Zoology, 1907–39." Social Studies of Science 19 (3): 387–420.
- Swedberg, Richard. 2016. "Before Theory Comes Theorizing or How to Make Social Science More Interesting." *The British Journal of Sociology* 67 (1): 5–22.
- Tutt, Dylan, and Jon Hindmarsh. 2011: "Reenactments at Work. Demonstrating Conduct in Data Sessions." Research on Language & Social Interaction 44, 211–236.
- van Dyke, Ruth, ed. 2015. Practicing Materiality. Tucson, AZ: University of Arizona Press.
- Voyer, Andrea, and Mats Trondman. 2017. Between Theory and Social Reality: Ethnography and Interpretation and Social Knowledge: Introduction to the special issue. *Ethnography* 18 (1): 3–9.

Author Biographies

Christine Neubert works at University of Hamburg, Germany. In her research she focuses on everyday life practices, architecture, materiality, and on qualitative research methodology. Recent publications deal with methodical reflections on researching architecture as a nonverbal experience in everyday life, conducted in the frame of Architectural Resistance. On the Perspective of a Practice-Theoretical, Pragmatist Sociology of Architecture (FQS, 2020) and with the question about Researching implicit knowledge implicitly. Blurred clarity in ethnography (forthcoming). At the moment, she is interested in aim and rationality of practice, and in construction sites and their effects on everyday life and on longterm societal change.

Ronja Trischler works at the Department for Sociology at the Goethe-University Frankfurt/Main, Germany. Her interests in research and teaching include qualitative methods, visual sociology, materiality, technology and media, as well as cooperation. Currently she is interested in sociological theorization of digital practices. Based on her ethnographic work on visual post-production for film and television, her recent publications include *Digital Data Imports. Observing online searches as cooperative practices* (2020), *Body/Technology in Standby. The Importance of Cooperative Waiting for Digital Work* (2019) and *Producing Materiality in Screenings. Work Practices in Digital Film Production* (forthcoming).