Conference for Artistic and Architectural (Doctoral) Research

Wiktor Skrzypczak
HafenCity Universität

Introduction to a somatic inquiry of architectural space

Thesis

The correlation of bodily self-consciousness and spatial perception and action

(we embody space)

We are embodied. That is, we are bodies in space and we embody space. More precisely, our bodies already know space before we consciously analyse it. For instance, when we go up stairs, sometimes, without expecting it, we 'step' on the last tread, which turns out not to be there, and we stumble as the foot falls into a void. In this case, the knowing body was mistaken. What this mistake reveals to us is a glimpse into implicit knowledge of the body, which usually allows us to climb stairs without us controlling this activity explicitly.

(bodily self-consciousness and spatial experiences)

Bodily self-consciousness correlates with spatial perception, but we do not fully understand this correlation yet. In a recent study on "The Architectonic Experience of Body and Space in Augmented Interiors," Pasqualini, Bellan, Tadi, Sarino and Blanke (2018) conducted controlled experiments to investigate how the mechanisms of embodiment interact with the experience of architectural space. They found that "the sensation of presence in the environment (i.e., the bodily self-conscious experience) and proper body as one's own body (ownership) (i.e., the sense of body or self-identification) [the experience of being at a specific location in space (self-location), and [the perspective] of taking the external world from a unified, internal perspective (first-person perspective)." In this and previous studies,[1] such aspects of spatial perception like the experience of containment, closeness to and illusory touch with surrounding walls or length estimation of presented bars were investigated in relation to bodily self-consciousness. The researchers found that "the sensation of presence in the environment was modulated by the shape of the room (rectangle with a stick), which significantly influenced mentioned spatial experiences and the perception of length estimation. The sophisticated study design isolated unwanted factors, among others by deploying virtual reality and Full-Body-Illusion procedures.

(modification of bodily self-consciousness)

I am interested if methods other than working with a stick can modulate participants' bodily self-consciousness. As a dance artist, I deploy somatic methods of movement education, in particular those of Body-Mind Centering (BMC). BMC involves sensory stimulation, or disturbance through touch and movement, as well as explorations of specific movement patterns and states of being between activity and rest.

(spatial relating)

Which aspects of spatial perceptions does this study focus on? In the first phase it addresses simple sensory-based spatial phenomena such as (1) the spatiality of one's own body (i.e., the relation of head to tail, the relation of centre and periphery, the relation to gravity and the sensation of the containment of organs) along with a number of external relational phenomena including (2) the sensation of touch and pressure from the surrounding space, (3) the sensation of distance, and (4) sensed measuring (i.e., perceived depth of the space or one's own level above the ground), (5) interpersonal relating (i.e., being alone, sharing space) and (6) noncategorical relating (i.e., addressing space, which in-between or being-before naming).[2]

(sensing spaces)

These simple forms of sensory-based relating may constitute experiences of physically accessible spaces: (1) the kinesphere (the peripersonal space); (2) the extended kinesphere (with a stronger addressing philosophical concepts regarding the poetic and existential qualities of space [Pallasmaa Bachelard]), as well as concepts from ecological philosophy (Gualtieri, Deleuze). The analysis of the experiences of spatial relations, which I propose as one of the somatic design practices I call 'Bridge-Connect'[3] and 'Mobile Centering' [4] aims to imply the need for (3) determining the role of digital media 'beyond its current tautological, formalistic, instrumental, and biomorphic obsessions'

Design for the body

Finally, my broader interest lies in the recognition and induction of existential values of space (Pallasmaa 2009, Pérez-Gómez[5]) and in effectively embedding these bodily perceived values in the design process. Pérez-Gómez pleads in favour of architecture 'for the body' and specifies its characteristics as 'haptic and tactile'.

(holistic architecture, complete human, presenting meaning)

Architecture must be 'holistic' and 'complete' in order to be 'meaningful' (its semantic depiction, '[L]ike in a poem, its "meaning" is inseparable from the experience of the poem itself.' The wholeness, the poetical meaning, is possible only under the premise of sensory experiencing. If these qualities are not reducible to a semantic concept, like a design documentation, I maintain it is reasonable to include more experiential practices into architectural design. Pérez-Gómez further states that architecture for the body can help with (2) 'recognizing ourselves as complete, in order to dwell poetically on earth and thus be wholly human' and refers to the phenomenon of 'body memory' as a necessary ingredient for this. Pérez-Gómez pleads for a design that includes the necessary experiential and poetic qualities (Pérez-Gómez, 2013). "Thus, we cannot be wholly human if we do not feel. Pérez-Gómez emphasises the need of recognising ourselves, underlining the modern Western perspective, which seems to neglect the faculty or skill of feeling. This gave a lot in with the aims of this study, which I articulated as the development of a skill of feeling beyond the dualistic concept of separated body and mind. Further, Pérez-Gómez pleas for architecture that (3) presents meaning as it appears instead of superimposing it. He calls for a poetic language that 'is not reducible to a set of rules or conventions' and that 'must be allowed to emerge from the parts with a stick), which significantly influenced mentioned spatial experiences and the perception of length estimation. The sophisticated study design isolated unwanted factors, among others by deploying virtual reality and Full-Body-Illusion procedures.

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Theoretical framework

In order to combine the earlier-mentioned assumptions and questions, the theoretical framework was developed by combining architectural discourse, which refers to the body conceptually, with somatic discourse, which is concerned with practical processes of production through bodily experiencing. This was based on the following approaches in architectural thinking: perception psychology (i.e., Pasquale et al., Balsamo, Malgrave), phenomenological analysis (i.e., Holl, Pérez Gómez, Zumthor, Schmitz, Gleiter, Böhme) and Einfühlungsästhetik (i.e., R. Vischer, Wölfflin). It also required philosophical concepts regarding the poetic and existential qualities of space (Pallasmaa Bachelard), as well as concepts from ecological philosophy (Gualtieri, Deleuze). The analysis of somatic practices was based on Body-Mind Centering® (Bainbridge Cohen) and Feldenkrais Method®. Finally, the research was grounded in the theory of 'construction documentation'[6] and Martin Heidegger's phenomenological analysis of the 'thing'.

Methods

Time aspect of the study

This study will be conducted in three phases. The comparative analysis of somatic and architectural discourse (1st phase) will provide a conceptual framework for the following practical research. As well aspects of composition relevant to those of architectural discourse, resulting in an extended somatic vocabulary of knowledge between practices of architecture and dance but also at revealing hidden knowledge can be found. Through the analysis of practices and theories, useful explanations and methods (2nd phase) will be developed, partially explicated and evolved into describing tools.

(modulating embodiment)

In light of current perspectives of the phenomenology of embodiment and phenomenology, the question arises whether they imply a specific personal attitude to the researcher who investigates the lived-body. The question is important when it comes to the methodological aspects of the practical research gathered in our bodies and movements. The general thesis states that because we are embodied we perceive and perform. Do these theories include a phenomenological attitude as a precondition? or is there a potential for the increase or decrease of embodiment, understood as bodily self-consciousness (self-ownership, self-location, coherent first-person perspective)? Can be done intensify to which I am being-in-the-world be influenced? And can the researcher herself modulate her embodiment?

(difference embodied vs. somatic practice)

In order to differentiate between the terms embodiment and somatic practices. I propose an understanding of somatic practice, as where the intention of a movement practice is the modulation of perception and performance. I would argue that we are always embodied to some extent. What distinguishes somatic practice is the real-time investigation of how the modulation of bodily self-consciousness influences perception and performance; how the modulation of perception influences bodily self-consciousness and performance; how the modulation of perception (i.e., changing the speed of movement or establishing a centre's dimensions) influences bodily self-consciousness and vice versa. Somatic practices can be superimposed with logical, abstract categories or not, but what we as animals share is in first the first-person perspective of experiential world.[7] In this sense, a somatic practice might be to halt the urge to explain and, instead, observe. Space, body and time are bound through causality and through chaos. And out of all of our interactions, probably only a fraction are grasped logically.

(anti-logical experiences)

Kakuni also points out the anti-logical experiences, referring to Victor von Weizsäcker's theory of anti-logic. In my everyday experience, contradictory logical concepts may coexist and dissolve. Kakuni quotes the example of a view of a railroad, where the rails visually cross on the horizon line, but we know that they are parallel. Kakuni states that "the logic of the body-mind in the performance may experience the inversion of causality, for instance in observing the movement of the breath in the chest. It seems that the muscles contract and release because the lungs alternately fill themselves with air and empty. A logical, mechanistic explanation would suggest such a cause-and-effect order, which is counterintuitive or might deploy the concept of external 'mind', which controls the body. In this example, the phenomenon of feeling one's breath seems primary to its logical, mechanical explanation.

(movement merges dualisms)

An attitude that replicates Cartesian dualism of separated 'body' and 'mind' can be counterproductive in somatic work. Although it is at the forefront of body-mind centration that dualism can be scientifically supported any more, regarding the studies on embodied cognition, it still dominates our thinking and our culture. Kakuni states that "the dualistic concept of body and mind, the strict division of bodily and mental aspects is necessary to experience one's own thinking body. This logical challenge is solved by the act of movement. Movement, as the oldest form of thinking, is terminologically the interstitch, dimension and displacement of matter. In this sense, the mind-body - the thinking body dissolves the dualism of 'body' and 'mind' into one phenomenon. Also, the abstract categories of space and time appear in movement practice as one.

(corporeality, spirituality)

If we think of a sacral building, we can notice how the relationship between a somatic, corporeal practice and spirituality might be comparable to the relationship between built architecture and religion. This research attempts to explore spiritual experiences of any type and is written from an atheistic stance. It acknowledges, however, the corporeal deepness of celebrative and casual rituals as well as of universal bodily practices such as prayer, meditation, contemplation, and so on.

(we share corporeality)

The phenomenon of spiritual experiences across cultures is, in my opinion, not proof of the existence of a sacred absolute but an indication that those experiences originate in something that we all share, that is in our corporeality. I would argue that spiritual experiences origin in a shared physiological origin and a strong enactivist dimension. For example, putting the hands together in a prayer in the main aisle of a church and hugging a tree both directly refer to the middle line of the sensitive body. The phenomenon of middle line has been extensively investigated in cranio-sacral approaches. And the sensation of the middle line, with its evolutionary, functional and aesthetical meanings is a strong, intersubjective, intercultural reference that can be elevated to spiritual experience through attentive practices.

(denouncing implicit manipulation)

The ability to influence the modulation of the room or induce intersubjective resonance, such as sense when hundreds of people clapping hands in a church or verbally addressing congregation feels like danger or challenge, is a powerful tool. Without a profound understanding of implicit, bodily relating, such a type of spatial design may be misused in religious and esoteric contexts for the reputation. Research on tacit knowledge may denounce these kinds of misuses and reclaims the authority from gurus to the subjects, establishing a personal authority. This power imbalance also raises ethical questions regarding an architect's power to lastingly influence moods.'[8]

(unverifiable information)

In space phenomenology and somatics, we encounter in real-time unverifiable facts (i.e., the sensation of being embraced by a dome or the sensation of arriving in one's own height). In the scientific and humanistic point of view, it is crucial to differentiate between an unverifiable implicit knowledge and a verifiable explicit knowledge. In order to be able to communicate with the scientific world, we need to share this information and have to cope with it. In these situations, suggests orienting towards the sensory grounding of information. 'The feeling body and not the mind is situated in the centre.'[9] In this sense, somatic practices sharpen the perception of the source and the reliability of the information: sensory, unverifiable, or rhetoric, unverifiable; or rhetoric, verifiable. For it is proved that the earth is round even if we do not sense it.

Investigation: Temporality of Space - Patterns of Flow

Theoretical framework

The following chapter discusses the experience of the temporality of architectural space and of bodymind as a flow. This consideration relies on Lena Hopsch's phenomenological analysis of spatial rhythmisation of Borromini's baroque architecture and on a somatic understanding of characteristics of the body-mind (in BMC, Cohen). Both Cohen and Hopsch used the notion of flow as a pattern in nature, or architecture, that has a kinaesthetic origin and which carries, respectively, expressive and communicative or dramaturgical qualities.

(origin in movement)

Hopsch stated: 'When you move your body, sequences appear, spatial sequences change and tension changes and emphasizes the form through movement's flow.' She understood the analytical role of the moving body in bringing the flow of events to appearance. In the same sense, the internal movement in the proprioceptively feeling body facilitates the flow of bodily fluids, as an spatial, temporal and expressive quality, according to Cohen.

(flow patterns in Hopsch)

Which 'coherent patterns' of flow did Hopsch and Cohen distinguish? Hopsch described the act of seeing Borromini's San Carlino as a phenomenological experience, which is structured of ancient drama: tension - culmination - dissolution.[10] The sequence consists of (1) flow of 'Direction' towards the building, with qualities of forwarding force and being embraced; (2) flow of 'border', with qualities of enlisting, concave/convex consummation, fulfilment of expectation; and (3) flow of 'Completion', with qualities of being admitted, enclosed, timeless, non-directional, whirled about, part of and merged with the space.

(flow patterns in Cohen)

Cohen identified specific dynamics of flow in relation to bodily fluids: cellular fluid, intercellular fluid, blood, lymph, cerebrospinal fluid, synovial fluid. How is understood here as sensing the circulation of fluids and feeling the influence of the circulation on the practitioner's expression. Cohen described the qualities of flow in relation to the fluids, as well as the effects of pressure and stiffness/relaxation of each fluid's sensation as well as its source for their combining, contrasting and balancing. For overview of suggested characteristic qualities of each flow confer Table 1.

Arterial: Flow with away from the heart and is expression of the heartbeat based upon precise pulse, alternating action and rest. Characteristic qualities of arterial blood/flow are pulsating, rhythmic, active, assertive, and outward from the heart.	The intercellular fluid is the foundation of vitality and flow of power through the organs and muscles. It is the ocean where the cells dwell. Characteristic qualities of intercellular fluid are vitality, strength, fluid or muscularity, active-directed activity, involvement with outer environment.	The cerebrospinal fluid: Flow of the quiet/creative void and the central core of unbounded self. Characteristic qualities of cerebrospinal fluid are effortlessness, lightness, stillness and deep awareness, both through the body and from the body and from the quiet and inward to the periphery, sustained, timelessness, infinite spaciousness, suspension and quiet/creative void.

Table 1 (Excerpt): Overview of flows/fluids in BMC and citation of their suggested qualities.[1]

(spatiality of fluids in Cohen)

A fluid's expression can have spatial qualities, as the direction of 'flowing inward to the heart' (arterial flow), or sense of scale - 'infinite spaciousness' (cerebrospinal flow) and, thus, may allude to the sensation of the architectural space's dimensions. Cohen stated: 'The ocean is the source' (2014). Cohen exemplified the flow with photographs of 'moments in nature [and elsewhere] that resonate familiar states of consciousness within ourselves.' One of the photographs depicts the flow in the spinal cord, 'spinal cord, spiral, cord, cerebrospinal liquid.' Over a little relating from the heart and is an expression of the heartbeat based upon precise pulse, alternating action and rest.' Characteristic qualities of arterial bloodflow are pulsating, rhythmic, active, assertive, flowing outward from the heart.' Other photographs depict Gaudi's curved facade and refer to the flow of 'Directions' towards the building, with qualities of forwarding force and being embraced. Also, nurturing the sensation of interior architecture and its description is an important aspect of this movement.

(flow in interior architecture)

Regarding interior architecture illustration—a photograph of the Taj Mahal mausoleum, or actually its reflection in the long water pond in front of it, and connects it to the flow of cerebrospinal fluid. The flow is described as 'infinite spaciousness, timelessness, stillness, lightness, softness' (2014). Cohen suggested to 'move through the water pond, upside down and experience endless blue sky and endless mirrored sky seems to resonate aptly with the description of cerebrospinal flow.' These examples suggest that the topography of architecture, in terms of a flow, does not necessarily have to be experienced by moving through it, as explained by Hopsch, but can also be experienced by sensing the flow's characteristic qualities.

(open attitude)

As tools, both phenomenological and somatic explorations require from the researcher similar, open attitudes. Hopsch stated: 'To experience architecture as a temporal event connects to letting oneself become immersed in it, to move with it and to let it move with you.' Cohen stated: 'Be open with whatever ... responds in you. ... The purpose is not to have the same experience but to be the possibility of experiencing.' Both stated the 'detached' or becoming engaged is the method or the aim of the work is described later in text.

(why exploring flow)

What the explorations of flow seem to promise is a differentiated understanding of how architectural spaces are experienced in terms of temporality. Hopsch's analysis of Borromini's architecture is such an example. Also, as a qualitative measure exhibits, how the situations and how the flow has initiating qualities, for instance feeling disoriented in a symmetrical train station. Examples of how might allow us to reflect on and begin spatial situations apart from the duality flow–no flow because it shows that experience of space is always also experience of passing through space.

(flow as design objective)

It seems that architecture is able to induce certain qualities of flow, as Hopsch suggested in her description of experiencing Borromini's San Carlino and as Cohen illustrated using the images of stairs, Gaudi's facade and the Taj Mahal. Using this premise, a design objective can be formulated as a specific somatic experience: '[P]asseide as a hug, that draws the visitor inside and lets him or her be embraced by the space.' Such a design objective could be the basis for developing a differentiated intention of addressing existential or simply somatic experiences. A pragmatic function of a place of gathering for a religious community of '100 people' can be achieved through the architect's intention of flow of drawing in, embracing and enclosing. Because this intention comes from bodily experience and is articulated as movement and bodily gesture, the probability that it will affect the users is high, even if they come from different cultural backgrounds. If the intention is not 'understood', or the actual use differs from primal function? I propose that the intention, or design objective, is still valid for the architect, will still affect the user, producing an enriched experience of individual flow as to contrast or colouring.

Movement exploration

Exploration 180726

Go through the room at a chosen speed but never stay still. Pay attention to (feel) the places where the flow changes direction. Where does it stop, start, accelerate, decelerate? What is your comfortable speed? What is your fastest speed (and your slowest)? Are you in control? For a moment, stay at this speed. Pay attention to the distance between your heels and the top of your head (What kind of sensation emerges)? Let your body remember and keep this sensation. Direct your attention to wander through the room. What are you passing by? Passing through? What are the boundaries? What are the passages (doors, openings)? Which zones are you entering? Which are you not? Which borders are you crossing? Which not?

Explore the relationship of movement and rest, between slow motion and habitual speed. How do you locate the presence of your attention? Where is your attention?

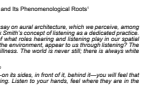
Finish by standing still. Jump several times, if you feel dizzy.

Write down what you've experienced (7 minutes each).

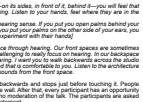
(Duration: 15 min)

Exploration 180823 – Re-performance and development of Exploration 180726 (excerpt)

Environment: Stairs, Holzhafen

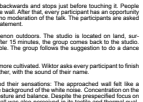


The second trial took place on waterfront in Holzhafen, on the stairs in front of the gas holding. Being more public, this location includes the crowds passing by. I deliberately helped me ignoring others' attention and establishing freedom of non-habitual movement. I have chosen a route for the slow-motion exploration beforehand - a walk over a rough granite block. Again, the divided attention between coordinating the movement and the flow of attention was a challenge. I found myself in the consciousness of Holzhafen. Feeling that my eyes, ears, sense of balance accommodate more and more sensitivity to the open, changing space made the practice more effective and led me to moments of thoughtless suspension while ascending the stairs. (Duration: 7 min)



Environment: Plateau, Holzhafen

The third trial took place on the plateau at the top of the stairs. This time I did not use the extra slow, neutral flow, but I carried out, instead, the simplified BMC exploration of cerebrospinal flow' in sitting, backward flow' in sitting, backward flow' in sitting (10 min) but facing a distant perspective of Elbe's bank flanked by the pylons of the Köhlbrandbrücke. I was accompanied by a colleague, so that we could carry out a slow double-focus on inner work and on a particular external image. Last repetition of the 'flow' in sitting, backward flow' in sitting, backward flow' in sitting (10 min) was carried out by the first one, this trial placed me at moments in unusual standpoints and oriented toward new visual perspectives in actually familiar to me places. I felt that I have enough time to relax and to enjoy the flow. Bainbridge Cohen describes to 'combining, contrasting and counterbalancing'. Accordingly, this exploration can be seen as combination of the sequentiality of the practice's elements, as well as the simultaneity of movement practices done there – the 'slow motion walk' and cerebrospinal flow exploration.



In following I confine the description to the explorations on the plateau and its stairs. I am standing on a firm granite ground. It has a flame-cut finish. I take off my shoes, the stone does not feel cold. There is lots of sun and wind and people passing by. I see a roughly split stone block, it seems to be accessible for the pedestrians and I decide to do my trial on it. I start the upward ever stroll on it. It feels like standing exposed on a pedestal. I maintain the idle continuity of the flow. I am concentrating on the flow of cerebrospinal fluid, sensing how it rises in the spine. I am aware of the fact that I am being observed by passers-by. I am trying to ignore them. I am trying to arrive in front of the next boulder; I feel over-challenged. I pause aimless, for a moment, and my attention wanders back to the sunny warmth. I look into the sky. Then I jump over and arrive on the plateau.

I choose a spot on the plateau; on the office workers' pathway. I sit down and notice in the frame of sensation of being embraced by a dome the sensation of arriving in one's own height. I want to know this place in me. I play with this chain of pearls. I drop my weight in it. Behind the line of spinal discs is the spinal cavity, spinal cord, cerebrospinal liquid. I look at this relating from the feeling of resting discs and vertebrae. Then, I how a little initiating from the feeling of the space between the discs. I feel how the flow rises in the spine. I am aware of the fact that I am being observed by passers-by. I am trying to ignore them. The stone of the river is in front of me. I go back. I know the resting discs well. I move from there. I want to go into the medulla and its fluid. I feel open, I am more cared for, I want now I wander up the thoracic spine into the cervical, and down, and up again. And up into the cranial cavity. I feel the weight of my brain. It floats in the fluid. I push down the spine, I want to go to the sacrum, to the base of the spine, to the root of the head. My eyes follow. I see the highrise passing by; I look into the sky. My head perks up and to the left. I look at the people passing by. I look into the sky. My head perks up and to the left and again. The people and I wait and let me in. I let myself be; my hands know exactly, where the floor is. Granite feels surprisingly soft. I roll, and my medulla rise me. I'm astounded by the openness, the elevating force. I walk and jog over the plateau. The sight of the highrise, moving when I move, makes me curious. I run. How easy it is to see it from different angles. People sit and lie on the stairs and on me. I watch them. I want them to know that I know that they watch me. The medulla rises me again and I let myself fall. And again and again, endless. The highrise behind my back seems to push my dance. I will come back here tomorrow.

I wrote this text the day after doing the explorations. My bodily state was typical for work with computer - a confined focus and restricted mobility. During writing and recalling the experiences of the explorations, I felt how my body and my mind relaxed. The past exploration - released muscular tone, soft reach. Apparently the words brought up bodily memory, in a surprisingly vivid way. I never experience that vividness when I use other media.

On my next vacation I will write poems instead of taking photos.

Investigation: Sensory Sensitization - Listening

Theoretical framework

The theoretical framework for this section is in writing process. The following exploration is an example of embodied inquiry, which per se is conducted with minimum of external abstract references. The facilitations of the exploration was conceived in accordance with concepts of auditory aura of architecture (Sylvain de Bleeckere), practice of listening (Nancy Stark Smith) and order of support of the senses (Bonnie Bainbridge Cohen).

Movement Exploration

Exploration 180711

cf. Sylvain de Bleeckere: Aural Architecture and Its Phenomenological Roots'

Duration: ca. 1h

This score was inspired by de Bleekere's essay on aural architecture, which we perceive, among others, through hearing, and by Nancy Stark Smith's concept of listening as a dedicated practice. The aim of the score is to become aware of what notes hearing and listening play in our spatial orientation. How do objects, the studio and the environment, appear to us through sounds? The idea is to listen to the background, to the stillness. The world is never still; there is always white noise there, which informs us.

'Can you hear what is not making a noise?'

If you move your hands around your head—on its sides, in front of it, behind it—you will feel that they are there. Try it out and focus on hearing. Listen to your hands, feel where they are in the space.

You can also use your palms to direct your hearing sense. If you put you open palms behind your ears, you will hear more sounds coming from behind you. If you put the palm side of your ears, you will hear more of your backpack. [Please experiment with their hands]

I want to invite you to explore your backspace through hearing. Our front spaces are sometimes dominated through seeing, and it may be challenging to really focus on hearing. In our backspace we have no choice, we have to trust our hearing. I want you to walk backwards across the studio towards the wall at its end. Move at the speed that is comfortable to you. Listen to the architecture of the studio, use your hands but not your eyes to perceive the space.

Wiktor demonstrates approaching the wall backwards and stops just before touching it. People follow with their own trials of approaching the wall. After that, every participant has an opportunity to give one sentence of feedback. There is no moderation of the talk. The participants are asked to mind a pause of silence between each statement.

The group agrees to explore this phenomenon outdoors. The studio is located on land, surrounded by forest, meadows and lots of trees. Sometimes, they create islands in the middle of the studio. The specific focus and interest are noticeable. The group follows the suggestion to do a dance improvisation with focus on hearing.

At some point the quiet becomes more and more cultivated. Wiktor asks every participant to finish the score by filling the space, one after another, with the sound of their name.

In the group feedback, the participants report about their sensations. The approached wall felt like a void, was perceivable as a quiet figure in the background of the white noise. Concentration on the sounds of the environment helped with the orientation in the space. The reflective surfaces focused on the auditory modality, the presence of the wall was also perceived in its tactile and thermal quality. Some participants also felt that the psychological presence of other participants influenced the 'physical' space. Others preferred to use their whole body for 'listening'. The architecture of the studio was perceived as welcoming and safe. The participants appreciated the opening of the windows through which they could hear the noise of its walls. Passing the windows was a rhythmic sensation, due to crossing the sound shadows.

Participants' feedback (exact wording):

"As I walk backwards, listening the space and wall coming towards me, I got lost noticing other sounds in the room. I felt like I was walking in a void. I was surprised how unexpectedly the wall appeared when it was the physical presence and which the biological timeframe was. The more details became more clear, I could feel the presence of trees before touching them. As I rest on the floor I used to listen the grass coming towards my head and leaving it. Afterwards, the quality of my movements where light, and I relate this to the attention on the listening channel, the ears and the equilibrium system of the inner ear. I was surprised how much I rely more on my hearing than ears help me to open the space of the atlas joint and that affect my general coordination."

"I could not hear with my ears, I was listening with the whole body, I took off my hands from the years, opened my eyes and the whole body perception (skinesphere, kinesphere). I could feel every cast the wall emitted, the sound of the wall behind me, and when I approached it, the wall suck me in, it covered me. After the exploration outside - It was a feeling of opening the whole perception (sodymm?) to get in touch with people and objects in it. Listening to the presence of the lake, waterfall, ground, trees.. listening to the silence of the trees. I was also listening to the sounds of people, but it was not important for me. I was listening to the sounds of the nature. When they were walking back to the studio I could see how attention was lost to everything around, but still all of them were very present and still continuing to listen and perceive the space, being relaxed and safe."

"Could the sound of nothingness have anything to do with body temperature? Or is it that I have the sense of touch more developed than my hearing? Can we perhaps hear the warmth of our bodies? The sensation of nothingness was very present, I felt like I was floating in a void. I was surprised that I could feel comfortable walking backwards and having the sensation of moving upwards of something. So I changed my fronts and had my internal eyes placed on my back. This became very interesting for me, having the sensation of reaching something and moving towards it."

"I felt I was falling into the void as I was getting very close to the wall. It felt as if the space behind me had a thick density and colour, somehow dark, like sea. I felt [it] only for a while."

"Ich finde den Effekt, wie präsent der Raum hinter mir durch das Anlegen der Handflächen die Ohren wird, so stark, dass ich mich frage, wie es wäre, wenn derselbe Effekt für die Augen so einfach möglich wäre."

"Approaching the wall was scary, because I could felt it without seeing it, and surprising because the feeling was precise and clear, nevertheless. The score relaxed my eyes and pulled me up, I felt taller. The sounds of the room were perceived how very loud it was. Apparently, the presence of the wall is the voice of perceived sounds."

Translation of practice

Architectural design as documentation of experienced spatial relations

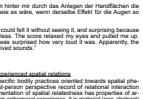
This research includes empirical trials of specific bodily practices oriented towards spatial phenomena. Part of its documentation is a first-person perspective record of relational interaction with spaces and places. This kind of documentation of spatial relatedness has properties of architectural design: Despite originating from an ephemeral experience, it is material (non-abstract) because it exists in the material world. It can define relationships before it addresses structures (cf. Cohen). It has the characteristics of 'construction documentation' because it describes the method and circumstances of spatial experience induction.

The concept of architectural design as documentation of experienced spatial relations is currently evolving out of documentation methods of this study. Potentially it can be conducted using varying modalities of writing (cf. Heidegger), that is from (1) observation, that is from (2) articulation in chronological order and objective setting of the original exploration. This is a distanced relation of the author to the text. (3) Articulation in present tense, that is from the author's perspective with references and intuitive understanding of experienced situation. The process of writing and the experience induces in my observation a kinesthetic and proprioceptive response of researcher's or designer's bodymind, that is exemplified in the excerpt of the writing on own face, a theoretical sense of a void 'behind one's back. The recalling, gathering and induction of past spatial experiences results in a living tool of architectural matter. By (3) changing the medium of documentation from writing to drawing I experienced, that this matter easily crystallizes in new perspectives of past experience and is a seed for its creative transformations and spatial design.

Fig. 1 - Exploration 180713

Fig. 2 - Exploration 180726

Exploration of cerebro-spinal flow induced openness which harmonized with the architecture of the site. The observation of temporality of the space with focus on temporality of the site.



Wiktor Skrzypczak

Introduction to a Somatic Inquiry of Architectural Space

A heightened bodily self-consciousness enhances the perception of the environment. How can this correlation be consciously and effectively applied in architectural praxis? An account of the first phase of doctoral research will be presented, including its interdisciplinary framework (in the fields of architecture and somatics) and introduce somatic inquiry as a spatial research method and explore the concept of architectural design through documentation of experienced spatial relations.

The study's framework draws from body-oriented architectural theory (Einfühlungsästhetik, phenomenology, perception psychology) and exemplary somatic methods (Body-Mind Centering®, Feldenkrais Method®). This study examines the reduction of a spatial experience to bodily felt phenomena - a method used in both somatics and phenomenological analysis. It also discusses how the tacit knowledge of the body 'feeling' itself correlates with explicit knowledge about the environment.

As a field of corporeal practices and methods which mostly developed throughout the 20th century, somatics seeks to heighten body consciousness and relate the body-mind by means of perception training (in the fields of architecture and somatics) and introduce a first-person perspective record of relational interaction with spaces and places. This kind of documentation of spatial relatedness has properties of architectural design: Despite originating from an ephemeral experience, it is material (non-abstract) because its roots are in the material world. It can define relationships before it addresses structures (cf. Cohen). It has the characteristics of 'construction documentation' because it describes the method and circumstances of spatial experience induction.

This research includes empirical trials of specific bodily practices oriented towards spatial phenomena. Part of its documentation is a first-person perspective record of relational interaction with spaces and places. This kind of documentation of spatial relatedness has properties of architectural design: Despite originating from an ephemeral experience, it is material (non-abstract) because its roots are in the material world. It can define relationships before it addresses structures (cf. Cohen). It has the characteristics of 'construction documentation' because it describes the method and circumstances of spatial experience induction.

This performance lecture provides an account of movement-related architectural thinking. Besides a verbal presentation of the above-mentioned topic, it will include the researcher's movement. It also addresses the audience's direct kinesthetic response and may require seating modification in the conference hall. This contribution can be illustrated with work samples from current research.

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1 Pasqualini I, Bellan ML, Tadi T, Sarino A and Blanke O (2018) The Architectonic Experience of Body and Space in Augmented Interiors. Front. Psychol. 9:375. doi: 10.3389/fpsyg.2018.00375

2 Pasqualini, Isabella; Llobera, Joan; Blanke, Olaf (2013): "Seeing" and "feeling" architecture: how bodily self-consciousness alters architectonic experience and affects the perception of interiors. In Frontiers in Psychology 4. DOI: 10.3389/fpsyg.2013.00354.

3 Cohen, Bonnie Bainbridge (2014): Sensing, feeling, and action. The experiential anatomy of body-mind centering : the collected articles for Contact Quarterly dance journal 1980-2009. Johannesboro: MTM.

4 Pasqualini I, Bellan ML, Tadi T, Sarino A and Blanke O (2018) The Architectonic Experience of Body and Space in Augmented Interiors. Front. Psychol. 9:375. doi: 10.3389/fpsyg.2018.00375

5 cf. Longgenhager et al., 2007

6 Koteen, David; Stark Smith, Nancy (2008): Caught Falling

7 cf. Pérez-Gómez in: Jacquet, Benoît; Giraud, Vincent (2013): From the things themselves: Architecture and phenomenology. Kyoto: Kyoto University Press., 227

8 Fingerhut, Jörg (2013): Philosophie der Verkörperung: Grundlagentexte zu einer aktuellen Debatte. Berlin: Suhrkamp.

9 Kakuni Takashi in: Jacquet, Benoît; Giraud, Vincent (2013): From the things themselves: Architecture and phenomenology. Kyoto: Kyoto University Press., 221, 226

10 Pérez-Gómez in: Jacquet, Benoît; Giraud, Vincent (2013): From the things themselves: Architecture and phenomenology. Kyoto: Kyoto University Press., 467

11 Hubert L. Dreyfus in: Jacquet, Benoît; Giraud, Vincent (2013): From the things themselves: Architecture and phenomenology. Kyoto: Kyoto University Press., 320

12 Fortsetzung folgt

13 Hartley, Linda (1995): Wisdom of the body moving. An introduction to body-mind centering. Berkeley, Calif.: North Atlantic Books.

14 Feldenkrais, Moshé; Beringer, Elizabeth (2010): Embodied wisdom. The collected papers of Moshé Feldenkrais. San Diego, Calif.; Berkeley, Calif.: Somatic Resources; North Atlantic Books.

15 Eddy, Martha (2016): Mindful Movement. The Evolution of the Somatic Arts and Conscious Action: Intellect L & D F A C. 274

16 Neutra, Richard Joseph (1956): Wenn wir weiterleben wollen. Erfahrungen und Forderungen eines Architekten. Hamburg: Claassen.

17 Kakuni Takashi in: Pérez-Gómez in: Jacquet, Benoît; Giraud, Vincent (2013): From the things themselves: Architecture and phenomenology. Kyoto: Kyoto University Press., 320

18 In this sense it would interesting to identify 'yoga-, preachers and dramaturgy' in architectural community. However, it is not the concern of this study.

19 "Der Lab und nicht die Methode steht im Zentrum der Somatischen Akademie." Author's translation, accessed 23.08.2018 https://www.somatische-akademie.de/index.php