Bilag 2

Title: Diffracting alto saxophones

Author name: Laura Toxværd

Keywords: performative research; music; improvisation; agential realism; diffraction

Abstract

The article unfolds a study with a performative research approach that contributes to our understanding of music making on the basis of Karen Barad's theory of agential realism and her elaboration on Donna Haraway's use of the concept of diffraction. The setting off point is a lecture performance held in 2022 at the *Arts in Action: Urgencies in Art and Art Education*. During this conference presentation, a piece of music for alto saxophone was coming into being, while the saxophonist partly played and improvised and partly talked about what she sensed and imagined. With saxophones as a pivotal point, a diffractive field is established by the lecture performance and a concert which took place in 2019. Through two agential cuts in the concert in the form of two pieces of music, effects that cross time and space are analysed. Empiric material is generated through sound and video recordings of the soundcheck and concert, supplemented by research notes and a concert review in the Danish daily newspaper, *Politiken*. The study aims to contest the anthropocentric tendency to center human subjects in the making of music. Instead, it asks what human and nonhuman bodies and materialities do in the study's music making.

Main text:

Introduction

The article unfolds a study with a performative research approach that contributes to our understanding of music making on the basis of Karen Barad's theory of agential realism and her elaboration on Donna Haraway's use of the concept of diffraction (Barad 2003, 2007, 2014; Haraway 1992). The setting off point is a presentation in the form of a lecture performance held 8-10 June 2022 at the University in Agder, Norway, at The International Arts in Context Symposium *Arts in Action: Urgencies in Art and Art Education*. During this conference presentation, a piece of music for alto saxophone was coming into being, while I, as the saxophonist, partly played and improvised and partly talked about what I sensed and imagined.

With saxophones as a pivotal point, a diffractive field is established by the lecture performance and a concert which took place at the *Klub Primi* venue in the former meatpacking district in Copenhagen 12 November 2019. *Klub Primi* is a venue for creative, improvised and genre free music. There were four musicians who collaborated in the concert: Marilyn Mazur on drums and percussion; Peter Friis Nielsen on electric bass; and Julie Kjær and myself on alto saxophones. Through two agential cuts in the concert in the form of two pieces of music from the album *The Winds* (Toxværd, 2023), effects that cross time and space are analysed. Empiric material is generated through sound and video recordings of the soundcheck and the concert, supplemented by research notes made after the concert and a review of the concert that appeared in the Danish daily newspaper, *Politiken*.

A major urgency of the world is the anthropocentric tendency to center human subjects at the expense of both human and nonhuman bodies and materialities. In my practice as an artist I sense possibilities to decenter human subjects and give space for bodies and materialities of both humans and nonhumans. The research question is as follows: What do human and nonhuman bodies and materialities do in the study's music making, which contests an anthropocentric tendency to center human subjects in the making of music?

I begin by positioning myself as researcher and my research and sketching out the article's theoretical background as well as setting out the methodological framework upon which my

research is based. Through two agential cuts in the concert, I analyse the effects of the saxophones in the diffractive field followed by my conclusion.

Positioning researcher and research

In what has been named a performative research paradigm with a background in Brad Haseman's manifesto for performative research (Haseman 2006), is where I position myself as a researcher. The performative research paradigm covers post-approaches to and extensions of qualitative research as well as artistic research perspectives (Jusslin et al. 2022). Researching within this paradigm can be understood as a creation and not as a representation of something that existed before my research. I am entangled and in multiple relations in my research and I move and change with the research process (T. P. Østern et al. 2023). I move beyond the human-centered world views and approach my research material with a curiosity of performativity, materiality and relationality. I look for what human and nonhuman bodies and materialities do performatively in their mutual relations. In the music making's doing, focus is shifted from music as an object to music as a dynamic doing and becoming with effects that I account for.

With my performative study I research music making as an entanglement of multiple intraacting components while I ask what human and nonhuman bodies and materialities do in this ongoing dynamism of music making. Other recent studies with professional musicians and their music making and agential realism include "In close combat with the *note enemy*: Shame, empowerment, and performative learning" (Schøien et al. 2022), "Untamed stories told by artfully creative artists in Malawi and Norway" (A.-L. Østern & Hovde 2019) as well as "To learn with becomings of graphic notation in music as iterative intra-action" (Toxværd 2022). In comparison to these studies, this article's research makes use of two agential cuts in a concert in the form of two pieces of music and analyses effects that cross time and space.

Since there is little work yet done on agential realism and music making based on improvised music, I aim to contribute with this performative study to the growing field of studies that contest the notion of human agency in the center of musicianship and instrumentality in the field of critical organology (Bovermann et al. 2017). Agential realism and music performance in the field of sound art are researched in the study "Composing Fragmented Relations With Materials, Locations, and Archives" (Southern & Thulin 2021) which builds on a relational

perspective where sound is used as a connective tissue bringing fragments into relationship. Another study is "Materiality: The Fabrication of Sound" (McKinnon 2021) where sound is described as a kind of fabricated fabric made of the interweave of multiple elements. In relation to agential realism and composition Hermansson offers in her Master's Thesis an understanding of music that gives prominence to music's material and bodies (Hermansson 2014). And in Øvrebø's PhD Dissertation he combines audience research and artistic perspectives with an agential realist approach (Øvrebø 2021). With my work described in this article, I want to add an exploration of a diffractive field with alto saxophones as a pivotal point in the realm of experimental jazz and improvised music.

Diffraction as an alternative to reflection

In this article I use the concept of diffraction as a tool to opening up the lecture performance in time and space by establishing a diffractive field. Rather than reflect upon the lecture performance and the concert, I am concerned with the effects of the concert's and the lecture performance's alto saxophones that contest the anthropocentric tendency to center human subjects in music making. In practice, both in relation to the lecture performance and the concert, I have been aware of the possibilities of decentering human subjects and giving attention to bodies and materialities in order to find the effects of human and nonhuman doings. That means that it is the alto saxophones that are the pivotal point and not the alto saxophonists. Focusing on the alto saxophonists would have centered the human subjects in the music making, which is not my pupose here.

In my study diffraction comes into view as an alternative to reflection. Whereas reflection can be understood as the well known interaction between two mirrors which reflect each other to infinity without one being able to see more (Barad 2003, pp. 802-803), the diffractive field that this study establish can be viewed as an ongoing dynamism that continues to show new perspectives. The alto saxophone does not reflect me or my autonomous intention as a subject. The alto saxophone decenters the subject in its mutual iterative doings with human and nonhuman materialities. Barad's elaboration on the concept of diffraction builds on Haraway's use of the term. Haraway explains diffraction as a mapping of interference, and not as a reflection or a reproduction or replication. She explains that a diffraction pattern does not map where differences appear, but rather maps where the effects of difference appear (Haraway 1992, p. 300). When I explore my study's generated empiric material what

interests me is the effects of the alto saxophones in the diffractive field framed by the lecture performance and concert.

Agential realism, intra-action and agential cuts

The theory of agential realism is based on the inseparability of agentially intra-acting components of human as well as nonhuman bodies and materialities. Barad writes about intra-action, saying that it should be understood in contrast to interaction, which contains a sense of the existence of earlier unconnected entities (Barad 2003, p. 815). In my study, I use the concept of intra-action as opposed to the concept of interaction to emphasize that everything that participates in the intra-action cannot be separated into unconnected entitites; therefore I examine each part in its entanglement with all the intra-acting components. However, although I follow Barad and work on the basis of the inseparability of agentially intra-acting components, she points out at the same time that the possibility of objectivity can be established through a specific agential cut, which generates a local agential separability within the phenomenon (Barad 2003, p. 815). Barad understands objectivity as a part of the universe making itself intelligible to another part in its ongoing differentiating intelligibility and materialization (Barad 2003, p. 824). Objectivity, according to Barad, means being accountable to marks on bodies (Barad 2003, p. 824). In this study, my researcher body is a part along with other parts of the universe in its ongoing differentiating intelligibility and materilization. I need to be accountable to the agential cuts that I choose to make in my research material, because the agential cuts make marks on human and nonhuman bodies and have effects in the world.

Analysis

With saxophones as a pivotal point, I establish a diffractive field where two agential cuts in the concert are made. My choice to make these two agential cuts was based on the lecture performance I held in June 2022 at the International Arts in Context Symposium *Arts in Action: Urgencies in Art and Art Education*. During this conference presentation, a piece of music for alto saxophone was coming into being, while I partly played and improvised and partly talked about what I sensed and imagined. For example, I talked about the music that was affected both by the sunlight that suddenly poured in through the window, and by a good

colleague, who was close to me while I played, and by the corners of the room, which attracted and repelled me and my saxophone as I walked around and played.

While being part of the doings of human and nonhuman materialities I researched the music making of the lecture performance. I had sensed that music was not something that I composed alone, because I had become aware that, for example, the sunlight had an effect on the atmosphere in the room, and that the presence of my good colleague had a calming effect on the situation. Additionally, the room's corners had an effect on the acoustics. And I realised that by exploring the effects of the alto saxophone from the lecture performance I would also be able to look for the saxophones' effects of the former concert and its recorded music pieces and analyse the effects across time and space.

First agential cut

This agential cut is artistically articulated as music. Link to sound recording of the concert's fourth piece of music titled 'DONE WITH THE CHART':

https://soundcloud.com/lauratoxvaerd/done-with-the-chart?utm_source=clipboard&utm_medium=text&utm_campaign=social_sharing

Using words I will articulate the agential cut as follows: Scarcely halfway into the concert, we found ourselves in a space where only the percussionist and the electric bassist were playing. The music was airy and had some repeating phrases. At this point the other alto saxophonist began to play a short phrase. Before she was about to end the phrase, I also began playing a short phrase on my own alto saxophone. On the video recording we can see that I was at the side of the stage, where I squatted on my haunches and took something to drink. But just as the other alto saxophonist began to play, I got up and walked into the middle of the stage to my microphone, and started to play. For the three minutes which followed, the two alto saxophones played phrases which wove themselves in and out of each other. Neither of the alto saxophones were further forward or backward than the other. It sounds like one instrument, even though you can hear that there are two instruments playing. You can hear the phrases being played, breaking through and then holding back, but it is not clear where the phrases begin and end, and there are insertions and rephrasing exchanged from one alto saxophone to the other which made musical waves whose boundaries remained unclear.

Analysing the effects of the alto saxophones of this first agential cut in the diffractive field of the concert and the lecture performance maps effects in relation to decentering human subjects in the study's music making. The sunlight, my good colleague and the room's corners during the lecture performance as well as the entangled sound of the alto saxophones at the concert are effects that contest the anthropocentric tendency to center human subjects. At the concert I sensed that it was my alto saxophone that suddenly wanted to go to the microphone and play along with the other alto saxophone. It was not me as the alto saxophonist who intentionally controlled that I wanted to play with the other alto saxophonist. Nor did the alto saxophone control me.

The two alto saxophones are two alto saxophones, but there would be no musical point in separating them; the phrases being played are like waves that break through and hold back and which boundaries remain unclear. The music making is intra-activity in which the alto saxophones cannot be separated into unconnected entitites in correspondance to Barad's description of intra-actions (Barad 2003, p. 815). Similarly, as waves with blurred boundaries, I sensed the alto saxophone in the lecture performance intra-act with the sunlight, my good colleague and the corners of the room while the music came into being; to unfold this intra-action, I talked about what I sensed during the lecture performance. Both in the lecture performance and in the first agential cut, the music comes into being by multiple human and nonhuman bodies and materialities and not by human subjects alone.

Second agential cut

Artistically this agential cut is articulated as music. Link to sound recording of the concert's first piece of music titled 'THE WINDS': https://soundcloud.com/lauratoxvaerd/the-winds?utm_source=clipboard&utm_medium=text&utm_campaign=social_sharing

To articulate this second agential cut in words I will use a note I made on the night after I came home from the concert. In the note I wrote that my plan in the concert had been that the other alto saxophonist should come onto the stage and play around 15 minutes after the start of the concert. At the soundcheck I told the musicians that this was the plan, but the electric bassist protested. He thought that she should be there from the beginning. And so it was, an entirely different concert to the one I had planned. The concert was reviewed, and awarded

five out of six hearts, in the Danish daily newspaper, *Politiken* (Friis 2019). The reviewer wrote:

Laura Toxværd's slender sax voice glides around the registers, untroubled, Marilyn Mazur strokes her drums and strikes bells whilst Julie Kjær allows her sax voice to roar, distorted, in the background. At the bottom, Peter Friis Nielsen's electric bass wanders uneasily around on the fretboard while the other voices become stronger and stronger. Everything picks up speed until the four musicians in Toxværd's quartet each hammer energy in all directions into the room at Halmtorvet in Copenhagen. The musicians allow themselves to give up all control over the situation.

The review begins by introducing the concert, describing all four musicians and their instruments in various ways. Firstly from the starting point in the musicians' bodies' gestures, e.g. 'strokes her drums and strikes bells'. Secondly by coupling their instruments with their bodies, e.g. 'sax voice' and thirdly by taking off from their instrument, e.g. 'electric bass wanders uneasily around on the fretboard'. Later in the review the musicians are described as a shared energy:

[...] After the wild introductions, the four musicans fell into an examining, vegetating state in which they whistled, rattled and howled, as if they were all seeking a mystic land with wonderful creations and rare growths. Everything caused by curious exploration of their instruments in a kind of search for what they can also say when you push them.

Analysing the effects of the alto saxophones of this second agential cut in the diffractive field of the concert and the lecture performance maps effects that contest the anthropocentric tendency to center human subjects in the making of music. The reviewer of the concert listened to the music and put into words what he sensed that night. The effect of his writings as well as the effects of sunlight, of the presence of a good collegue and of the attraction and repulsion of corners during the lecture performance are decentering human subjects in the study's music making. The concert reviw's focus on the musicians' bodies' gestures, by coupling their instruments with their bodies, and by taking off from their instrument, as well as describing the musicians as a shared energy articulates music making as intra-action that

cannot be separated into unconnected entitites corresponding with Barad's explanation of intra-activity (Barad 2003, p. 815).

At the concert, my plan was for my fellow alto saxophonist to enter the stage about 15 minutes later than the rest of the musicians. My subjective reasoning was that introducing a new musician and thus a fresh musical voice at some point during the concert would establish a variety in the concert. Two days after the concert, when I read the newspaper review, I became aware that the concert being reviewed could have turned out very differently if I had kept to my plan. The protest from the electric bass player had an effect on the concert's music in a similar way as the sunlight, my good colleague and the corners had effects on the lecture performance. Both in the lecture performance and in the second agential cut the proces of music making is an entanglement of human as well as nonhuman bodies and materialities.

Conclusion

In this article I have addresssed a major urgency of the world; namely an anthropocentric tendency to center human subjects at the expense of both human and nonhuman bodies and materialities. On the basis of Karen Barad's theory of agential realism and her elaboration on Donna Haraway's use of the concept of diffraction (Barad 2003, 2007, 2014; Haraway 1992) I have researched to answer my study's question of what human and nonhuman bodies and materialities do in the study's music making. In my practice as an artist I have sensed possibilities to decenter human subjects and to be aware of bodies and materialities of both humans and nonhumans in music's becoming. In the article's study a diffractive field with saxophones as a pivotal point has been established by a lecture performance held in June 2022 at *Arts in Action: Urgencies in Art and Art Education* and a concert which took place at the *Klub Primi* venue in Copenhagen in the autumn of 2019.

The analysis based on the two agential cuts in the concert contests the anthropocentric tendency to center human subjects in the study's music making. If the sunlight had not suddenly poured in through the window during the performance lecture, and if my good colleague had not been present, and if the room had not had corners, the music would not have come into being the way it did. And if the alto saxophone I am playing had not wanted to get close to the microphone and play with the other alto saxophone, there would not have been this moment where the alto saxophones sound so inseparable, playing phrases like

waves which boundaries are blurred. Similarly, if I had stuck to my plan and introduced my fellow alto saxophonist 15 minutes later than the rest of the musicians the concert would have been a completely different concert.

The lecture performance and the concert decentered human subjects, because the process of music making sensed to be an entanglement of human as well as nonhuman bodies and materialities. There has not been much work done on agential realism and music making on the basis of improvised music yet, so I see my work as a contribution to the growing field. With this study I aim to create an understanding of music making as an ongoing dynamism that gives space for all kinds of bodies and materialities of both humans and nonhumans and continues to let us sense new perspectives. What the human and nonhuman bodies and materialities do in the music making of my study contests an anthropocentric tendency to center human subjects in the making of music by unfolding how music making is entangled in multiple intra-acting components that we do not limit nor control.

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Biography

Laura Toxværd (b. 1977). Saxophonist, composer and author of the art book *Compositions* – 18 Graphic Scores (Hellerup: Forlaget Spring). Works performed regularly in Europe and North America and released internationally since 2002 on 17 albums. Scores published by Edition S and in the anthology *Notations21* (NYC: Mark Batty Publishers). Studies at the Rhythmic Music Conservatory (RMC), Conservatoire National Supérieur de Paris and DPU, Aarhus University. 2009-2012 awarded the Danish Arts Foundation's 3-year work grant. For several years taught and examined at the Danish music conservatories and conducted artistic research as a lecturer at RMC. Currently PhD, University in Agder. www.lauratoxvaerd.dk