A WHEEL INSIDE A WHEEL

by

LIZZY STORM

Under the Direction of Craig Dongoski, MFA

ABSTRACT

Getting lost in nature, I can sense the unfixity of its countless forms and processes. Recurring patterns at micro and macro scale arise from creative and destructive forces in space and time; reality appears simultaneously constant and impermanent. My thesis work, *a wheel inside a wheel*, explores the self in relation to contemporary conceptions of reality. I look at static and dynamic representations of stripped-down patterns modeled from nature, like circular bursts, splintering branches, or the meander of a wave. The action-based works on paper and cloth leverage invisible forces and signal to permanency and physical embodiment, deepened through an engagement with archetypal materials. Time-based media renders an altogether separate point of view. Presenting documentary footage alongside artifacts of this abstraction practice, I speculate on the role sensing and recording technologies have in altering perceptions and observations of reality.

INDEX WORDS: Art, Nature, Perception, Consciousness, , Phenomena, Process Art, The Self, Patterns, Metapatterns, Metaphysics, The Body, Trace, Artifact, Media, Technology

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LIZZY STORM

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**DEDICATION**

Here is where I’m going to write a dedication.

# ACKNOWLEDGEMENTS

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# INTRODUCTION

(What I hope to convey to my audience) (What bigger ideas are driving my work) (My creative process in executing my work) and (How my approach changed while making the work)

By deeply observing and representing nature through the years in various degrees of realism and abstraction, I’ve come to question constructions of reality through that lens. I recall a childhood game my sister and I would play. We would pick something out of our field of view, a tree, or a cloud, and we would ask, how do I know you’re seeing the same tree as I am? And we would describe the tree from our point of view. I would detail its form and colors, relate them to essential shapes and qualities, maybe making a metaphor for how it looks like something. She would define it as a living organism, elements and atoms that together form into a branching shape as it collects water from the earth and light from the sun. She would further illustrate any piece I might not understand, like “living”, or “atom”. Despite our efforts, we could not convince each other we were seeing the same tree. Would it even be the same tree tomorrow?

These curiosity sessions were some of my earliest conscious forays into abstract and scientific thinking. Over the years, I made work about visual perception and scientific thinking, undoubtedly inspired by those early conversations with my sister.[[1]](#footnote-2) As an artist trained in traditional, classical drawing and painting, I worked through scientific topics, matching the way I saw the world, as stable and built from discernable parts, to the way I portrayed it, built from the Cartesian ideals of point, line, plane, and volume. I combined linear perspective drawing and familiar illusionistic space with otherworldly landscapes and abstractions of scale to draw a connection between visualization in the arts and visualization in the sciences as parallel modes of thinking with an early-modern historicity (Figure 1).



Figure 1 “Cloud Field” Lizzy Storm, charcoal, conte crayon, and acrylic on canvas, 24 x 36 inches, 2014

My practice is steeped in early modern European conceptions of reality. Lens technology and architectural perspective drawing, guided by geometry and mathematics, gave draftsmen and painters a new way to conceive of the visual world in these tools to envision and portray it. Mathematics technology, in turn, made lenses useful in early telescopes and microscopes, making images of previously concealed worlds possible. In my early work, I used all of these optical devices in some capacity and doing so, I worked to link the two modes of visualization, of art and of science, underscoring the notion of a sensible universe, built from discernable parts in definite relationships (Figure 2). This was a rationalistic way of knowing and depicting the world. With all of this work prior to graduate school, I was responding to modernist depictions of reality that arose out of early modernism. I was seduced by modernism’s logical and mathematical ways of conceiving reality.



Figure 2 “This Must Be the Place” (diptych), Lizzy Storm, charcoal, conte crayon, and acrylic on canvas, 32 x 24 inches each, 2016

I engaged with late 20th century post modernism in the humanities and art more fully for my graduate research. (multi-image photo illustration figure (sculpture in the expanded field diagram, Robert smithson, etc.? not sure what I meant by photo illustration… what artists – artists who engage with nature and phenomena?) It seems the 20th century’s scientific progress and the resulting technological atmosphere have rendered old models of conceiving reality obsolete. Points, lines, and planes have become nodes, flows, and networks. I’ve yet to form a sense of what this contemporary reality *looks* like for me. The typically static media of drawing and painting do not easily accommodate the flexibility and dynamism characteristic of contemporary conceptions of reality. This has led me to a reevaluation of the medium and materials of my practice, seeking a closer connection to nature through physical media, yet yearning for the technological vision of high-speed video and aerial photography.

To uncover some of the origins of my assumptions about vision and art, this thesis will trace a limited course through early modern notions of image making and point to how they could have laid the foundation for 20th century modernism. Some of what I have found the most interesting in relation to my work are theories based on optical devices, like early cameras, the telescope, and others, which find connections to conceptions of reality. Early cameras, photography, and cinema will surface, but definite answers on their influence will not. I wonder, what obsolete models of portraying reality have I inherited from the past? Modernist theories of visuality are being critically examined to this day, and I will speak to some art and writing from the late 20th and early 21st century. With this thesis, I will outline some of the larger ideas that inform my practice. I’ll also share how my work changed when doing critical research. Finally, I will share some reflections on my thesis body of work and exhibition.

Witnessing new models of perceiving reality has led me to reevaluate the so-called fundamental building blocks of my own practice. My thesis body of work, *a wheel inside a wheel*, explores the self in relation to contemporary conceptions of reality. The action-based works on paper leverage invisible forces and signal to permanency and physical embodiment, deepened through an engagement with archetypal materials. My expanded drawing and painting practice looks into static and dynamic representations of stripped-down patterns modeled from nature; like circular bursts, splintering branches, or the meander of a wave. Time-based media renders an altogether separate point of view. By presenting high-speed documentary footage alongside artifacts of this abstraction practice, my work speculates on the roles sensing and recording technologies have in altering perceptions and observations of reality.

# Old Media

My practice begins with observation. I like to get lost in nature, from the multi-dimensional lushness of a secluded wooded trail to a scraggly patch of urban landscaping. I notice different things. Some days its rocks, geology, colors and textures of dirt and granite. Others it might be grasses, leaf shapes, bark textures, fruits. Mushrooms are a favorite eye candy, their incredible range of forms and colors, their fruiting body allusion to the mycorrhizal network beyond. Simply observing phenomena, forests, waterways, landscapes, ecosystems, vast or small, I can sense the paradoxical permanence and unfixity of nature’s appearance and manifestations. So, my impulse is to pin it down somehow; to describe it, remember it, to honor its existence, this remarkable, fleeting phenomenon. Some questions arise. What does it mean to want to capture an experience? Does the mechanism for capturing the experience, whether through image, language, or some other translational device (a camera, the senses), influence the record? Can a static image convey the dynamism of natural processes? These are the questions I ask when I take up the task of abstracting what I notice about dynamic phenomena in the world.

## Early modern visions

“The eye which is the window of the soul is the chief organ whereby the understanding can have the most complete and magnificent view of the infinite works of nature.”[[2]](#footnote-3)

At the foundation of my practice are ideas, mostly inherited, around “observation” and “learning to see”. The primacy of vision is deeply rooted in my psyche. Do visual artists think the visual sense is the most important? Looking back at myself as a young visual artist, I did. Why wouldn’t I? I became preoccupied with representational drawing as a way of seeing and knowing. I thought I could sense more about a thing if I was able to draw it deftly. *(my practice, the theme, and the questions)*

Early on, I recognized this in the expert sketches of Renaissance master, Leonardo da Vinci. By the time I was learning to draw and paint as an undergraduate student, the Leonardo notebooks had become a popular scholarly topic and were frequently referred to in my drawing lectures. One of the main lessons was his use of leading lines to establish movement in a sketch. Another was the range of tight detail and loose description. Viewing the sketches as a thought process, I remember analyzing the artist’s attention. (kemp page 140 structural intuitions – Leonardo drawing of water)

Around the time I graduated with my Bachelor’s in 2012, I came across the Hockney-Falco thesis in *Secret Knowledge: Rediscovering the Lost Techniques of the Old Masters*. Its much-debated theory says that optical drawing aides were almost certainly used by Renaissance masters, with proof in the form of analyzed artworks.[[3]](#footnote-4) Though the book itself was generally attacked from all sides, historically, forensically, it was the first instance I linked optical devices with worldviews or models of reality. Its premise made me reevaluate my own attitude around drawing and drawing aids. This experience opened me up to using optical devices in my own work, for example using projectors to blow up sketches. *(…where that led)*

Diagram

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Figure 3. da Vinci placeholder image 1(water turbulence drawing – take from Kemp book with citation)

I started to think more about how new tools gave artists of the European Renaissance novel ways to envision of the world. If their optical tools led to ontological and philosophical developments, what impacts are modern technology having on our perceptions of reality? In the early modern age, lens technology and architectural perspective drawing, guided by geometry and mathematics, presented a rigorous framework around which to build visions of reality according to rules reflective of European society’s monotheistic values. It was important to me to look into the role of linear perspective because I had used it as a model of space and reality that I was previously uncritical of. “Growing out of the late medieval fascination with the metaphysical implications of light… linear perspective came to symbolize harmony between the mathematical regularities in optics and God’s will”, writes Martin Jay in *Scopic Regimes of Modernity*.[[4]](#footnote-5) Linear perspective takes the two actual eyes of perceptual vision out of the corporeal realm and puts them into a realm of abstracted isolation as one “eye”. Leonardo’s notes on “the eye”, perspective drawing, and a description of a camera obscura have lead scholars like Martin Jay to start down a path of piecing together the story of vision, optical technology, and visual art.

Leonardo’s lengthy note on the camera obscura is as follows, and it does a great job of retaining the somewhat mystical quality of the phenomena also known as a pinhole camera,

[The function of the lens and pupil of the eye] is shown when the images of illuminated objects penetrate into a very dark chamber by some small round hole. Then you will receive these images on a white paper placed within this dark room rather near to the hole; and you will see all the objects on the paper in their proper forms and colors, but much smaller; and they will be upside down… These images, being transmitted from a place illuminated by the sun, will seem as if actually painted on this paper, which must be extremely thin and looked at from behind. And let the perforation be made in a very thin plate of iron.[[5]](#footnote-6)

He is using the analogy of the *camera obscura* (Latin, translates to “dark room”) to explain the function of the lens and pupil of the human eye. He famously claims that the eye does not project rays, as was the consensus since Plato (roughly 300 BCE). His scientific method of approaching knowledge about the world through experience foretells the critical and structured methods of modern science.

American art critic Jonathan Crary argues that western philosophy adopted the camera obscura, formalized in Europe around the turn of the 17th century, as an epistemological framework for a perceiver receiving truthful knowledge about the natural world. This meant that not the two eyes of physical perception, but “the eye” of the observer, abstracted from their corporeal body, is equipped to reason on and contemplate knowledge of the world. This, he says, sets up a situation that leads to modernism. Its interesting to me that wisdom, intelligence, learning, education, all came to be synonymous with vision. As a visual artist, of course I thought the visual sense was the most important. What I encountered in this research is that Western epistemology is obsessed with vision too.



Figure 4. placeholder for decartes optics notebook drawing/publication engraving

In addition to the camera obscura, early telescopes and microscopes made images of previously concealed worlds possible. The optical devices were hailed as a revolutionary advancement in the human pursuit of scientific knowledge about the universe. These highly specialized and practical devices were designed to extend the scope of the human eye in order to attain new knowledge about the workings of miniature and massive worlds. There was a rationalistic way of knowing and depicting the world driven by the human sense of vision as a clear pathway to knowledge.

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Figure 5. placeholder image for Galileo astronomy ink drawings/paintings

I used the classical techniques of perspectival rendering alongside images sourced from telescopes, for example, to give my work an early modern historicity. My mode of drawing with chalk alluded to the quick thoughts and sketches of a notebook study. I used traditional warm and cool transparent glazes of acrylic to mimic the classical style of painting. (Figure 6) My 2016-2017 painting “View of Yellowknife Bay, Mars” is based on a panoramic digital photograph sent to Earth from the NASA-JPL Rover on Mars. The view is of a site on the red planet near where the rover was landed. The landscape shows an ancient lakebed on Mars, which I thought was a poignant symbol of deep, geological time scales. A two-point perspective grid system is embedded in a Romantic landscape to reinforce the physicality and depth of space. The grid also draws your attention to the contrast between the Rationalistic, linear, constructed foundation of knowledge that is wrapped up in the symbol of linear perspective, and the longing for direct experience of a natural vista.

![A picture containing ground, outdoor, several

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bQ7MX11JsYHPGGIxz25rTOnyRoZUvJVIYcDofrQ27j0sVr2aSHY42HzVGQV9zVa1to4rqKTau5sEYUDBPWlcEUPGkEf2RIFjRS/wC837eR7VX8OeI55sQNbw/uF+VhnOMH39qpK6H0Ojm0+31S1825TcE+dVyeoH1rLspIoLnf9mjZUdvkI6npmpvpYLamlqHkpa+fDAInZgDtJx/nirtjFFcIA8a525yB64pXB/CcBqk/9leK7vyYYHXcAUkjBH3f/r05b0+at5bKbaZvvbG+U/hWpnY0G1KfUJEecJvX5S65Vm+uDT59Dtru4WaXO5zzsyOfXOad9ROKSNKHwro97ZWvn2m5lQHcHIrzrxXp8OneJ5be23LHkYBOcVUW72M2tLm1a6q5tILWWCKWEYBDbsnn1zXVQ2Eek2du1rLPtnIUo0hKqfXH9KhmqJNShNtpchSefzG6uX5OfWmeGtFSO0ac3ErSyuyMSflwPaoeiHcx9e1B9IvmsYY0KABt/wB1uD7VdtY11BC8xcqQGC7s4yPWrew0Q+LbdLTRbdoAqjdhtygk8etV9CnRxDGIgqA9Aeucdal/CNH/2f/hMjZodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0i77u/IiBpZD0iVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkIj8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIiB4OnhtcHRrPSJYTVAgQ29yZSA1LjUuMCI+DQoJPHJkZjpSREYgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj4NCgkJPHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9IiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIiB4bWxuczpwaG90b3Nob3A9Imh0dHA6Ly9ucy5hZG9iZS5jb20vcGhvdG9zaG9wLzEuMC8iIHhtcDpDcmVhdGVEYXRlPSIyMDE3LTA2LTAyVDEyOjI4OjI5IiB4bXA6TW9kaWZ5RGF0ZT0iMjAxNy0wNi0wMlQxMjoyODoyOSIgeG1wOkNyZWF0b3JUb29sPSJXaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0IiBwaG90b3Nob3A6RGF0ZUNyZWF0ZWQ9IjIwMTctMDYtMDJUMTI6Mjg6MjkiLz4NCgk8L3JkZjpSREY+DQo8L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIC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Figure 6 "View of Yellowknife Bay, Mars" charcoal, pastel, conte crayon, and acrylic on canvas, 108" x 84", 2016-2017

I arrived at this recurring theme of optical devices in my practice, so I continued to investigate vision itself. When I look out into the world attempting to discern elements in the landscape, in the perceptual field, where does my attention go? It used to depend on what type of picture I was trying to make, a landscape, a still life, a portrait, for example. The concepts of image-making and perception were already stirring in my mind. I first reflected on the subjectivity of perception with this new dimension to my practice.

I remember I used to notice the orthogonals of modern architecture and spatial planning, the parallel lines stretching to meet at the infinite horizon. Then I would glimpse these same spatial ordering structures in forests. The comparison between the man-made and the living, organic structures was fascinating. I was studying perspective drawing and its historical, cultural impact at that time. Clearly, my attention to perpendicular intersecting lines and planes, of vertical and horizontal axes and vast expanses of space, was guided by this specific interest. I made artworks reflective of this Cartesian universe. (figure) In this context, I can also bear in mind how the way of drawing became a way of seeing and reinforced a rationalistic way of knowing reality.

I thought of the perspective system as a high abstraction. I thought of how information about a physical and material space was encoded into a lesser-dimensional system, and could then be retreived by the observer, almost as if reconstructed in their mind. I wanted to use that system to talk about space itself. I felt I needed to articulate something about how space is not “out there”, not just empty space, and not “outer space”. Perspective drawing was such a tactile way for me to engage with the expansive character of deep space. The fluctuating scales of space that deep space can imply to our bodies when we encounter one is something I was trying to capture with this work.

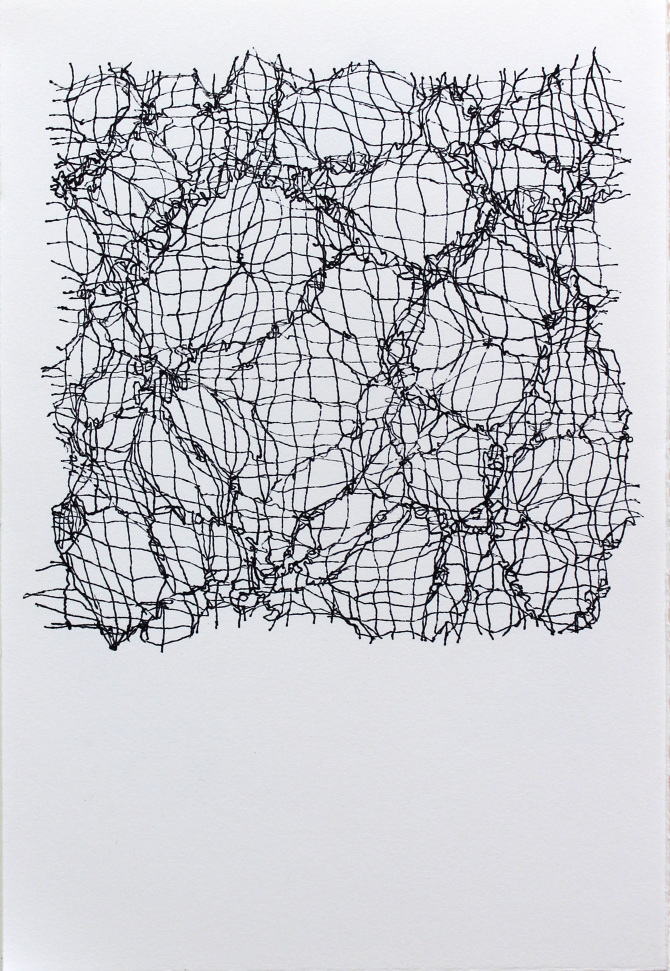


Figure 7. placeholder for past works

## The threshold of our modernity

This burgeoning practice of mine coalesced around the theme of vision. While I thought about how my work with the 3-dimensional perspective grid, and later with the 2-dimensional grid, was referencing Cartesian perspectivalism and Rationalism, it was hinting at modernism too. When I saw the grids and cool cubic logic of modernist painting and sculpture, I wondered at the historical threads tying the Renaissance to modernity. If the telescope and microscope were following the logic of the singular eye of point-projection, what optical devices in the years intervening the Enlightenment and Modernism broke from that pattern to propel us into Postmodernism? I wondered how the invention of photography and cinema affected the arts from a critical perspectice. I brought these lines of questioning with me to graduate school.

I studied further into this topic and have found a trove of opinions and theories. Critic and theorist Jonathan Crary looks at the paradigm of the camera obscura and the making of “the observer” in the 19th century in the 1988 issue of *October* with “Techniques of the Observer”. Crary’s reading of history, founded on a close reading of Goethe’s *Theory of Colors* (1810) and aided by modernist theorists Roland Barthes and Walter Benjamin, suggests the early 19th century is a historical period when physical optics merges with physics, and physiological optics comes to dominate the study of vision.[[6]](#footnote-7) He links early Enlightenment optical experiments and later Enlightenment and Rationalist philosophers and theorists to the thinking of modernists, postmodernists and structuralists. His work is important to my study of vision, observation, and the self because he suggests how studies into optics propelled by Goethe’s theory and optical devices of this period contribute to placing the observer in the physical, corporeal body.

His argument, which I find so interesting as a speculation on models of reality and visuality, is that, as an epistemological model, the camera obscura’s historic specificity to the early modern age becomes complicated at the turn of the 20th century with the emergence of early cinematic devices and is rendered obsolete. In contrast to what he perceives as an overarching acceptance of the continuity of a monocular world view from perspectivalism to the modern photographic camera, he suggests a pivotal rupture occurs within the history of the science of optics and modern technology that disrupts that comfortable narrative. The interweaving of practices of visuality and visualization, of science, mechanics, and technology history, and of philosophies of reality that is so interesting to me is exemplified in this study by Crary. He points out how studies into optics led to “proto-cinematic devices”[[7]](#footnote-8), like the thaumatrope, phenakistiscope, zoetrope, kaleidoscope, and stereoscopic photography, which all worked on the actual physical visual system in a sort of optical illusion, as well as expectations of vision, in ways radically different from the culturally dominant optical device of the static image and disembodied eye of the camera obscura. (fig) In describing the key feature of the how the optical devices function as models of reality, Crary says “… though they provide access to ‘the real,’ they make no claim that the real is anything other than a mechanical production.”[[8]](#footnote-9) The proto-cinematic devices worked on newfound knowledge of vision, such as the afterimage, to create the illusion of moving pictures before the eye, the most primitive of which might be a flipbook. But, Crary points out, they made no attempt to conceal their mechanical trickery, and thus usher in a new model of embodied perception flavored by the Marxist machinations so signature of modern thinking.

Looking into the historical influence of optical devices opens doors to theories about the aesthetic foundations of modernism. Pointing out this juncture historically gave me an indication for how to position my thoughts on the static versus the dynamic image. The jump from the orderly rationality of a perspectival reality to the flux and instability of contemporary reality is almost too wide to cross. But with this historical framing, I can continue being critical about the ways depicting reality in the static or dynamic image reflects ways of perceiving reality in societies.

A collage of a person riding a horse

Description automatically generated with medium confidence

Figure 8. Muybridge early stop-motion 1878 placeholder iamge

Something that has always followed me through my development as an artist has been an exploration of image-making as it relates to visualizations of hidden or novel realities. My earliest graduate work was grappling with the line between objective and non-objective abstraction through an expanded vision of drawing. I was cognizant of cave painting and hieroglyphics, illuminated manuscripts, algebra, calligraphy, the writing/drawing dichotomy, and I was beginning to invite chance to my practice. I experimented with the paper sheet as a register for simple linear forms interacting with forces in space by using rubbings and monoprint. This practice of recording a unique instance of a loop of string took on the character of a sort of divination. What was the loop responding to in its transit through space from my hand to the surface where it landed below? (Figure 11)

A close-up of a drawing

Description automatically generated with low confidence

Figure 9. “entangled beginnings 1” Lizzy Storm, acrylic, india ink, and pastel on found paper, 6 x 12 inches, 2020

I thought of Duchamp’s Standard Stoppages[[9]](#footnote-10), and Max Ernst’s surrealist *frottages[[10]](#footnote-11)*, and Pollack’s drip paintings[[11]](#footnote-12), but also of quantum uncertainty and chance. Tiny changes in position, air flow, force from my fingers, timing, and gravity, all coalescing to result in an instance, imaged with a crude transfer process in primitive materials. Taking the impression of the string solidifies *this* particular instance of the many superimposed possible configurations as real. As the reader of these divinatory casts, I could assign any meaning to them, or none. I recorded the outcomes as abstracted loop shapes signifying a character, letter, or word in a script from a parallel reality. The two-dimensionally compressed shape of the three-dimensional divining loop was transferred through rubbing onto a sheet of dyed, found paper. Being of the materials of drawing, dry marking medium on paper, I equated these pieces with drawing, while simultaneously confusing them with writing. With this series, I started settling into a palette of monochromatic blacks, greys, and whites with warm and cool undertones, and cultivating a practice using the limited material kit of paper, ink, charcoal, and other dry marking media like wax crayons, graphite, and carbon pigment pastels. I think part of why I chose to start working monochromatically was to reduce the variables of what I was presenting to have a focus on texture, pattern, gestalt shape, and linear gesture. This series was a way for me to break out of old habits of creating abstractions with a dependence on illusionistic space. It also gave me a chance to find ways to create totally non-objective forms that are somehow still linked to nature and natural processes.

In addition to thinking of materials, I also thought about process. The process of mark making can take many forms, some of which are as simple as literally dragging (drawing) a marking tool across a surface, or a stick in the sand, a wet foot on a stone, colored dust smudged with a finger. Or it could be as elaborate as a prepared surface of finely ground and sifted marble dust suspended in skin glue medium marked with .999 percent fine silver.[[12]](#footnote-13) Certain surfaces do their recording better, or with a different quality, than others do. (*illustration here of ink on vellum vs silverpoint – could be da Vinci*?) Whereas I used to take the drawing mediums for granted, I now arrive at ideas about materials in a subjective, relational way. What can I allow my materials to say by allowing them to be themselves? Why say something in silverpoint when charcoal would do better? What other processes can I allude to and incorporate into my drawing practice by augmenting my approach to the medium?



Figure 10 Leonardo da Vinci silverpoint drawing

The process of texture rubbing or *frottage* was instrumental to a shift that happened in my studio practice as I became more critical of the model of reality I was projecting through my work. There was a previous dependence on illusionistic space that was liberated through an exploration of the concept of the trace through gesture, action, and texture. The trace is a sign of an object through its imprint, “the footprint, the death mask, the photograph…”.[[13]](#footnote-14) This term encompasses a lot of the things I like to include in my work; referring to physicality, action, impression, transfer, compression, emergence, embeddedness, multi-dimensionality, and translation.

## Modernism: medium, materiality

The larger questions surrounding my work come down to how my works speak to a record of expressions or impressions based on lived observation, following a long line of artists who contemplate phenomena. Rather than rely on verisimilitude as a rubric, rather than strive to create pictures of a scene or how an experience *looks*, I wonder what else I can record. How, as artifacts recording physical action, can my works speak to the manifestation of the process they record, how can they speak to growth, change, and time? What are the processes saying through the materials, and what are the materials saying through the process? How do I reconcile my foundation of early modern epistemology with those that are up-to-date?

These questions are in alignment with a larger conversation in the humanities of materiality. Marshall McLuhan was a 20th century philosopher whose work laid much of the groundwork for today’s media studies. The 1967 book “The Medium is the Massage”, designed by Quentin Fiore and containing quotes by McLuhan, is an amazing combination of written media and visual design in a book format that explores what it means to present and perceive information in material form in the technological age. (Figure 10)

A close-up of a person's eye

Description automatically generated with low confidence

Figure 10. McLuhan book placeholder image

*The Medium is the Massage* attests to the beauty of direct experience in its material form and speaks to issues of the (then newfound) simultaneity of communication and the study of media itself. “The past went that-a-way. When faced with a totally new situation, we tend to always attach ourselves to the objects, to the flavor of the most recent past. We look at the present through a rear-view mirror. We march backwards into the future.”[[14]](#footnote-15)A picture containing text

Description automatically generated

Figure 11. McLuhan book spread placeholder image 2

As a visual, kinesthetic learner, encountering this book summarized many of my concepts about media, medium, and material that were hard for me to put into words, but which I had in mind when I thought of my work as the record of a process rather than a fixed, stable image-message.

Ours is a brand-new world of all-at-onceness. ‘Time’ has ceased, ‘space’ has vanished. We now live in a global village… a simultaneous happening. We are back in acoustic space. We have begun again to structure the primordial feeling, the tribal emotions from which a few centuries of literacy divorced us…

At the high speed of electric communication, purely visual means of apprehending the world are no longer possible; they are just too slow to be relevant or effective…

…Information pours upon us, instantaneously and continuously… Our electrically-configured world has forced us to move from the habit of data classification to the mode of pattern recognition… [[15]](#footnote-16)

When purely visual means of apprehending the world are no longer possible, McLuhan provides a solution. We move to “the mode of pattern recognition”. This book snapped me into a kind of present moment with myself that I couldn’t anticipate. Suddenly the progression of all of this history of vision, of visual art, of media snapped together in a sort of epiphany. “The book is an extension of the eye…”, and the poster, the billboard, the film, the television, the LED screen, *the painting* and so on…

# New Media

What does it mean to desire to capture an experience? As my practice develops out of a foundation of visual and extended sensory observation, and I introduce a more critical angle to my conceptual foundation, I wonder how my use of the medium of drawing and painting can accommodate the ubiquity of photographic and lens-based technologies and representations. If I desire to capture an experience, why not make a photograph? For me, I built my artistic practice on a foundation of observational drawing, to which photography was always supplemental. I did not think about the ways the photographic had already leaked into my conception of drawing until later. I am still reconciling my dynamic perceptual experience with the static image representation, and with the image-as-sign translation in the mind of the observer. What my exploration has led to are theories of modern oculo-centric visuality that reach their zenith with mid-20th century art in America, fringe theories in postmodernist consciousness studies, and contemporary theories of the “post-medium condition”.[[16]](#footnote-17)

## Postmodern sensorium

When I look into nature, my perennial muse, I perceive the traces of processes happening at simultaneous physical and temporal scales. My intellectual mind wants to take over and rationalize everything down to atomic building blocks. But the certainty that Cartesian perspectivalism once offered my practice has been convoluted by the historical updates I’ve made (it never matched the *feeling* of the real thing anyway). What medium, method, and materials can I use to create works that are more like a record, like an artifact of action that positions me as a kind of natural force? In the dynamic, chaotic formlessness of the contemporary lived experience of space, time, and matter, what can my work materialize and help us perceive as a common body?

To historically articulate the shift from modernism to postmodernism in art, I turn to Caroline A. Jones. “The Mediated Sensorium”, an essay anchoring the volume *Sensorium: Embodied Experience, Technology, and Contemporary Art*, an accompaniment to an exhibit of the same name. In it, she explores the post-modernist and contemporary turn to new media through the history of modernism. Beginning from mid-century modernism in the United States, Jones takes the example of Clement Greenberg’s art criticism as a cultural driver of the “sensory segmentation” that privileged painting and the visual sense from antiquity to postmodernism.[[17]](#footnote-18) The book’s introduction opens:

Now more than ever we need to think of the body’s utopian call to desire. Now more than ever we need to think the body, and embody our thoughts – now when that “cavern” and its visceral surroundings are studded with earphones, zooming in psychopharmaceuticals, extended with prostheses, dazzled by odorless tastes and tasteless odors, transported by new media, and buzzing with ideas.”[[18]](#footnote-19)

I have sought to question the privileging of sight in my observation and image-making practice. “Not surprisingly, in developing the method subsequently known as “formalism,” this writer [Clement Greenberg] fetishized sight, which had traditionally been the sense capable of producing the most “distance” from the body.”[[19]](#footnote-20) Jones recounts the shift away from the 20th century isolation and elevation of the visual sense, to a contemporary 21st century exploration of the full sense hierarchy. The author’s identification of “the modernist sensorium” is useful for my practice to conceptualize the foundation of late 20th century art history and begin to imagine what comes next.[[20]](#footnote-21) Her psycho-socio-political thesis asks, “What do we gain by the deformations, exaggerations, or substitutions found in contemporary art?”, and answers, “… we are exposed to subliminal histories that we can choose to explore, alternatives to the sensory map bequeathed to us”.[[21]](#footnote-22) Pointing to these subliminal and alternative histories acknowledges the irreconcilable multiplicity of sensory realities that comprise the contemporary fragmented collective conscious. Through Jones’ thorough analysis of modernist sensory models of reality, I can begin to conceptualize the formless dynamism I witness in nature and approach materializing it in ways critical of the contemporary moment.[[22]](#footnote-23)

We are now in a model of reality where vision is no longer isolated and privileged in the *sensus communus*. The technological model for our age may have yet to emerge, as the camera obscura did for early modernism, and cinema did for late modernism. Signs point to it not being an optical model at all. But one thing is sure, the model is fragmented.

The fragmentation and reassembling of the world effected by Pablo Picasso and Georges Braque in their Parisian cubism of 1909 to 1914 had allowed, encouraged, even goaded several artists… to push farther into a world of forms… The invention of these new kinds of abstract or ‘non-objective’ art coincided with the cataclysm of World War I, and the artists involved explained their innovations in terms of contemporary revolutions in both society and consciousness, proposing in numerous manifestos that their art laid bare the fundamental, absolute and universal truths appropriate to a new spirituality, to modern science or to the emergence of a changed human order.[[23]](#footnote-24)

Kirk Varnedoe’s series of A.W. Mellon Lectures gives an impressive narrative on the origins of the American mid-century abstraction and its progression into the late century. “In addition to all the ‘how’ stories…”, he says, “I feel obliged to ask some ‘why’ questions, including… *Why abstraction? Why abstract art?...* What’s the use – for us as individuals, or for any society – of pictures of nothing?”[[24]](#footnote-25) Vernadoe frames his answer in the terms of E.H. Gombrich’s own Mellon Lectures-turned-book, *Art and Illusion*. *Art and Illusion*, according to Vernadoe “made the case for illusionism, that would describe it… both as a legitimate reflection of the way we think individually and as a valid and valuable aspect of liberal society.”[[25]](#footnote-26) Where illusionism, the visual-privileging mode hard won by centuries of modernity, is a triumph of the sensible, rationalistic, knowable universe, abstraction “by its very nature, willfully and knowingly flirts with absurdity and emptiness, dancing on the knife edge of nonsense and beckoning us to come along.”[[26]](#footnote-27) His narrative frames the threshold between modernism and postmodernism as a porous exchange, not yet resolved, which resonates for me and my thoughts on the history of abstraction.

## Modern visions

“We have begun again to structure the primordial feeling…”

Two psychonaut[[27]](#footnote-28) philosophers influential to my conceptualization of a shift from modernism to postmodernist rumblings are Aldous Huxley and Terence McKenna. The message their writings and theories suggest is to first reconnect with reality through physical engagement, then second, begin to understand the conditions that shape contemporary reality are not inevitable. These thinkers are influential to me as links that bridge the span of 20th century modernism and postmodernism through consciousness studies. Just as optical science in the 19th century propelled shifts in epistemology, so too have late 20th century studies into the neuroscience of vision and perception and interdisciplinary consciousness studies.

Aldous Huxley, 20th century speculative fiction and non-fiction author and philosopher, wrote an account of his professional experience of a dose of the psychedelic mescaline in the 1960 *The Doors of Perception* that expresses a similar sentiment to McLuhan’s “simultaneous happening.” In the following passage, Huxley is attempting to reconcile with the novel visuo-spatial experience of mescaline (a synthesized form of the medicinal sacrament *peyote* traditional to the Indigenous people of the Americas):

At ordinary times the eye concerns itself with such problems as Where? – How far? – How situated in relation to what? In the mescalin experience the implied questions to which the eye responds are of another order. Place and distance cease to be of much interest. The mind does its perceiving in terms of intensity of existence, profundity of significance, relationships within a pattern… Space was still there… The mind was primarily concerned, not with measures and locations, but with being and meaning.[[28]](#footnote-29)

Huxley’s account gave some credence to altered states of consciousness as an area to address when considering vision, the body, perception, and society. As a reflection on that state, he was able to put into words the shift in interest from Cartesian “place and distance” to an archaic “being and meaning”. Notably for my practice, Huxley points out the increased significance of “relationships within a pattern” under the mescalin influence, the same perhaps that McLuhan recognizes.

He articulates the state of the re-reflective experience with the curiosity of a philosopher, recalling philosopher-poet William Blake’s *The Marriage of Heaven and Hell* in the book’s title. (see Figure 14) “If the doors of perception were cleansed everything would appear to man as it is, infinite.”[[29]](#footnote-30) What must have struck Huxley under mescaline’s influence was a new awareness of the perceptual apparatus. (go into spigot thing from doors? – if regular consciousness is regulated as if through a spigot, and meditation can open the spigot all the way wide, mescaline eliminates the spigot and the threshold between consciousness and *everything* (and nothing).)

Text, letter

Description automatically generated

Figure 12. Doors of perception Blake image placeholder

Ethnobotanist, author, and psychedelic mystic Terence McKenna, a late 20th century contemporary of Huxley, in his characteristic mercurial and referential style, brings to mind ideas around shifting ideologies, models of reality, phenomena, and cultural progress and decline in writings and un-scripted lectures. To summarize from his “History Ends in Green” lectures, in the relatively short period of time we as civilized humans have lived as boundary-enforcing, ego-centric individualists (following a deterministic, rationalistic philosophy), we have caused cataclysmic and irreparable change to the ecosphere, not least in our constant and habitual pollution of water, air, and soil.[[30]](#footnote-31)

In response to this, the evolution of the aesthetic experience of the 20th and early 21st centuries has led to a dissolution of boundary and form, where experience is felt in a constant state of flux. As the visual culture of the late 20th century suggests, McKenna muses, the collective is looking for new models to replace the deposed Cartesian sense of a world built from parts.[[31]](#footnote-32) My exposure to the ideas from these two thinkers in particular has had a huge impact on the way I approach my own conscious awareness, my own perception. From them, I know that my culturally conditioned perception, regardless of the neuroscience of vision, is *not* representative of some truthful pathway to knowledge about the universe (or my breakfast, for that matter). This distinction goes back to the very beginning of my curiosity towards the natural world with the question of the tree. Are you seeing the same tree that I’m seeing? (No.) Is there an essence of the tree that we can meet at (also no) or is it more of an issue of meeting *eachother*?

*(My Modern practice section)*

## Subsection 3 – artist examples and influences – nodes , flows and networks

Artists that heralded the rise of postmodernism in the socio-political and cultural environment of the latter half of the 20th century were finding ways to cope with a new reality, one where man had divorced himself from nature in a heinously violent act that has proven to have changed the face of the planet forever.[[32]](#footnote-39) Perhaps the intuitiveness of Pollock’s drip paintings, the incompleteness of Helen Frankenthaler’s and Lee Krasner’s, the limited scope of Robert Rauschenberg, and referentiality of Robert Smithson are part of its message.

New media art has become a nexus for exploring novel forms of expression and experience made possible through the rapid technological advancement of the late 20th and early 21st century. To the extent that these technologies have diverted our attention to nature through highly mediated experiences, the extra-sensory possibilities have only deepened the potential for experience no matter where you choose to look, what seems to matter now is *how*. “Today we suspect that our experience of mediation itself is where the art happens, and where we enter the aesthetic of our sensorium. Artists and designers of the twenty-first century reject a single paradigm or master narrative even as they recognize the instrumentalization of the senses they inherit.

This communication age, this digital age has contributed significantly to what I notice when I observe reality. I’ve found my interest in chaotic and fractal patterns, waveforms in superposition, fracture mechanics, and centrifugal, centripetal, and spiral motion fits into the aesthetic and scientific zeitgeist of the turn of the 21st century (after learning their names, of course). (add context – how to describe the aesthetic and scientific zeitgeist of the turn of the century) (add three examples of artists who match that aesthetic and a few sentences of critical analysis – maybe a quote – use DoCA series – find science connections in art literature)

This era has seen the dissolution of the Age of Reason as a guiding force. The emergence of a complexity of networks, systems, and chaos theory in its place have had a deeper impact on my experience of reality than the inherited past. (some artist ref. from intro to Systems or Networks…)[[33]](#footnote-41)

Now I tend to notice patterns. Specifically, patterns of dynamic forces like branching in plants or in cracks in concrete, spiral growth of pinecones, of human hands, waveforms in everything from doppler effect to radio to creek beds, and folding or buckling across man-made and organic material worlds.[[34]](#footnote-42) The more I seek the experience of patterns, the more I find them. What is that about? What is it drawing my attention? Tuning my attention this way has become a part of my process. [Donna Haraway “crystals, fabrics, and fields…”]

# my journey from old to new in studio

Introduce with paragraph

## Subsection 1 – expressionist and postmodern techniques

Experience, the subjectivity of perception, new models of reality, the upheaval of these notions has impacted my practice. In my studio, I explored ideas about artifact, impression, and index with humble materials like mark-making in charcoal and ink on paper, and primitive transfers and rubbings of low relief textures. I questioned these drawing mediums by approaching mark making from various angles, like using unconventional tools, bodily gestures, and actions at a distance like dripping and pooling. I wondered if the material, the matter of the stuff I was working with, could communicate anything beyond the perception of the medium.

Part of my redefinition of the materials of my medium, of drawing and painting, and of the “artist’s studio”, has been a reconnection with my kinesthetic, bodily experience in the act of creation. What drew me early on to recalibrate my approach to materials was that I wanted to be immersed in them. Most oil and acrylic paints are just antithetical to this very notion, requiring plastic barriers and distancing tools to properly use, rightfully so. I learned to love charcoal and ink and paper.

I’ve found the character of what I refer to as elemental materials to mirror an ephemerality of experience that they are most adept at capturing. They also recall, not only the Western art history of sketches and designs (*disengo*) in graphite or charcoal or crayon or ink on paper, vellum, or papyrus and their ephemerality, but the simultaneous permanence and weight associated with marks on prepared surfaces.

The simple marked surface, from the earliest known clay tablet, meant to be recycled, to the now ubiquitous sketchbook page, constitute an essential aspect of material history. As artifacts, they recorded characteristics of and evolutions in thought both visually and in writing, which initially evolved hand in hand. (illustration – evolution of writing – from NOVA?) As objects, they record an account of an event or a record of an inventory. I find the ephemerality and transience of these early thought forms to be so poetic. It speaks to the impulse to get something, to get a thought, an impression, a feeling, to get it marked down outside your head just to check yourself, to reflect on that experience you must have just had.

The point of reflection, the means of recording, carries the character of the medium, and the form of transcription inevitably influences the remembering, but these things are only revealed with time. Imagine the disappointment when cuneiform was finally translated and the coveted clay fragments containing that script were transcribed to reveal stock inventories. And yet, this fact illuminates the necessity for the script’s quick-natured, shorthand, almost speed-writing character. Time will only tell what becomes of our volumes of longform physical and digital records alike.

I use materials that have an elemental, ephemeral materiality, in an expanded practice centered around a traditional medium, drawing, retaining its embedded sense of transience to reflect on the intersections and contrasts this seemingly unchanging medium has with contemporary new media. My practice requires my physical integration with my materials and processes to reach a level of embodied, kinesthetic understanding, leading me to what I consider as “natural” materials. Combining materials in dynamic situations and recording their outcomes in objects as well as presenting them as projections and photographic representations engages this practice with the complexities of materiality in this digital, high technology, information age.

Something at the root of what I’m thinking about with materiality and the senses is the concept of embodiment, the exact opposite of digital wireless connectivity. Despite being a studious thinker and problem-solver, I’m not much of a reader, and I’ve always processed information best kinesthetically, or with body motion involved. The ways I was raised in a very creative community of households, despite my caregivers being blue collar workers, far-removed from the art world, taught me how to engage myself physically in my life through crafting my living space. My parents, especially, were very skilled craftspeople with building and homesteading, and I could simply observe them working to learn what they were doing. Coming back to my body and centering on my movements grounds me in a trust of my own bodily awareness. I can use it to engage with my materials and processes with an awareness very different from the strictly visual. (me in studio?)

Having made my way to ideas about materials through exploring process, I’ve come to a juncture in defining my practice. Is simply using a natural material enough to elicit an expanded response, does the material necessarily embody its natural presence? In experimenting with this line of questioning, I’ve come to find it does not. A *process* is more likely to contain both medium and material, and I’ve begun to look at my work by including this dimension.

In the recent past, I continue to intuitively return to what I’ve begun to define as elemental materials. This definition is more expansive for me conceptually, although these typically tend to be the same fiber and foraged organic-matter materials of traditional art and visual culture throughout human history. ((More on nature, matter, material, medium)

I look to “nature” as an orienting principle in this vast terrain. My curiosity for the way things work can be endlessly satiated on observing the workings of natural systems. Nature is a traditional and steadfast subject of the artist from time immemorial. (something light on nature – from Nature DoCA)

## new subsection

Using a drawing, painting, and printmaking process that contains a kernel of an impression, for example, monoprint, frottage, or action marking, is my method to allude to the pre-reflective experience.[[35]](#footnote-43) This became developed in work I was making in my second spring semester. Ink on paper alluded to the permanence of a mark on a field, of an impression on a field of perception. Using the process of controlled dripping, I created a scenario where the wet paper and the liquid ink would interact, eventually coming to rest as the materials dried. The wet into wet courses of ink and clear water mixed and resisted each other, resulting in fractal patterns often found in alluvial plains where river water and silty earth interact, regenerating nutrient rich soil. The deep, darkness of the carbon-black ink, centralized where it had been dripped, contrasted with the unmarked paper in a centrifugal composition that pulses outward and inward, recalling astronomical photographs of our Sun, gravitational bodies floating off in cosmic space, explosions, or flower blooms. Micro versions of that black spot on a white field radiate in fractal scale from the central void, revealing minute perturbations in the water and the sheet of paper.

Pattern-visions evident in my work are made possible by recent extensions of the human perceptual field, by lens-based optical-enhancement devices in the case of the space telescope, aerial photography in the case of the alluvial planes, high-speed video in the case of explosions, and time-lapse photography in the case of blooming flowers. [Kemp references – Worthington, high speed camera 1904, structural intuitions pg 144] And all of these patterns emerge from phenomena at human-scale too. (something about crary- scale – what is that from?)

The radial motion of water captured in the dried impression of ink on paper is an artifact of the instantaneous moment of ink contacting wet paper that results in an elongated phase of unpredictable change as the materials reach equilibrium. Rather than the static moment itself, the phase change is imaged in an interaction of gravity and evaporation. The series is called “cut open an atom and you will find the sun” and the title references a translation of the poet Rumi. I think of the materials of the piece in an almost sculptural way.

As I refined my notions about materials and processes, I’ve simultaneously refined my subject matter for my thesis work to patterns displaying signature energy patterns, such as those that arise from watery processes and gravity. The energy patterns leave physical traces in the material manifestation. Living, organic materials in dynamic processes with their environment display these patterns in a similar way that inert materials do. (more here) [something about the manifestation of non-human and non-living energies] (something about quoting John Ruskin in Structural Intuitions – “Try always, whenever you look at a form, to see the lines in it which have had power over its past fate and which will have power over its futurity.”[[36]](#footnote-44)

Something about the mercurial nature of water has always mystified the curious. Observing dynamic phenomena like the movement of water in droplets and pools also has a history in the development of sensing technologies, as we have seen in the case of Worthington’s high-speed, stop-motion photography of water. But what of the slow, eroding movement of water cutting a canyon, or the annual meander of a river? I think visions of these dynamic phenomena are familiar to millennial generations, but something of the physicality of these processes is lost in its illustration through time-lapse photography or animation. [contrast familiarity of stop-motion photo with photo of grand canyon, for example, showing water’s dynamic effects in two ‘timezones’]

This is where I find myself investigating, at the slight intersection of traditional notions of art mediums and new media, navigating the edge of my own embodied perception. What do I notice, now knowing my perceptual apparatus is mediated through not only my senses and the whole sensory body, but extensions thereof?

Alongside a pre-reflective experience, I also make use of lens-based technologies to augment, supplement, and contrast my purely subjective awareness. The seemingly benign but pervasive cell phone camera, the high-tech high-speed video camera, and digital projections are some tools I use to expand on my bodily perception. My practice couples these visuo-spatial, extra-sensory perceptions with time-dependent, organic cultivation of forms through non-traditional, direct impressions of gestures and actions in space to explore the intersections of speculative thinking and technology with embodied experience. My work combines tactile, bodily processes and traditional materials with electronic sensing and high-tech lens technologies and in doing so, gives my body a place to integrate and digest this 21st century expanded perception.

# A wheel inside a wheel exhibition

*a wheel inside a wheel* picks up themes I began exploring in my second spring semester. I dedicated myself to the practice of dripping ink onto paper and cloth grounds. The practice was predictable for me, for my body. I could go into the studio and enter a soothing meditative state of focus. I recorded high-speed audio and video of some of the instances of the ink dripping phenomena. The dripping process provided a framework to observe and document an unpredictable, chaotic event through a trace artifact. Because the action of the ink splatter happens instantaneously at the human visual scale, the high-speed video footage is a way to visualize a timescale of the action that demystifies the chaos. The static pieces simultaneously shed light on and obscure aspects of that chaotic event, while acting as image-signs conjuring archetypal visions of navel- or iris-like voids – very bodily associations.

Following discussions with my mentors and peers of how to disrupt the superficial surface that abstract paintings and works on paper can have, I decided to devise a way to use multiple layered surfaces and light. The resulting works combine my controlled ink drip action-artifact on sheer woven cotton cloth and cotton rag paper. The persistent pattern of a circular black void in a field of white recurs through the series of five works titled “when an explosion explodes hard enough, dust wakes up and thinks about itself 1-5”. The signature energy pattern of a splatter is evident in the works. The splatter is representative of a set of meta patterns that display centrifugal and centripetal energy, tying an archetypal vision to a bodily-sensory experience.

# Conclusion

Conclusions, insights.

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# APPENDICES

## Appendix A

### Appendix A.1

### Appendix A.2

## Appendix B

## Appendix C

1. Who went on to become a Doctor of Philosophy in astrophysics, no less! [↑](#footnote-ref-2)
2. Irma A. Richter Leonardo, *Selections from the Notebooks of Leonardo Da Vinci* (New York: Oxford University Press, 1955). 110 [↑](#footnote-ref-3)
3. [↑](#footnote-ref-4)
4. Martin Jay, *Scopic Regimes of Modernity* in Hal Foster, *Vision and Visuality* (Seattle: Bay Press, 2009). 5-6 [↑](#footnote-ref-5)
5. Leonardo, *Selections from the Notebooks of Leonardo Da Vinci*. 115-116 [↑](#footnote-ref-6)
6. Jonathan Crary, "Techniques of the Observer," *October* 45 (1988). 9 [↑](#footnote-ref-7)
7. Rosalind Krauss, “The Im/pulse to See”, in Foster, *Vision and Visuality*. 58 [↑](#footnote-ref-8)
8. Crary, "Techniques of the Observer." 33 [↑](#footnote-ref-9)
9. standard stoppages reference (museum collection) [↑](#footnote-ref-10)
10. Frottages reference (museum collection) [↑](#footnote-ref-11)
11. Drip painting reference (museum collection) [↑](#footnote-ref-12)
12. Also known as *silverpoint*, or broadly, *metalpoint*. [↑](#footnote-ref-13)
13. Mary Ann Doane, "Indexicality: Trace and Sign: Introduction," *differences* 18, no. 1 (2007). 2. As a concept, “the trace”, under the umbrella of “the index”, was elaborated on linguistically by Charles Sanders Peirce in *Theory of Signs* in the late 19th century and became adopted as an enduring term in the humanities in the decades following. [↑](#footnote-ref-14)
14. Marshall McLuhan, *The Medium Is the Massage / Marshall Mcluhan, Quentin Fiore*

    *Co-Ordinated by Jerome Agel*, ed. Quentin Fiore and Jerome Agel (New York: Bantam, 1967). (CITE) [↑](#footnote-ref-15)
15. Ibid. [↑](#footnote-ref-16)
16. Doane, "Indexicality: Trace and Sign: Introduction." 1 [↑](#footnote-ref-17)
17. Caroline A. Jones and Bill Arning, *Sensorium : Embodied Experience, Technology, and Contemporary Art / Edited by Caroline A. Jones*, 1st MIT Press ed. ed. (Cambridge: MIT Press, 2006). [↑](#footnote-ref-18)
18. Ibid. 1 [↑](#footnote-ref-19)
19. Ibid. 8 [↑](#footnote-ref-20)
20. Ibid. 42. [↑](#footnote-ref-21)
21. Ibid. 11. [↑](#footnote-ref-22)
22. Caroline A. Jones’s “The Mediated Sensorium” ties so many loose ends together for me, for example, the “marginal transgressives” of Robert Smithson (re: dedifferentiated vision and “Non-Sites”), Fluxus (re: performance art), John Cage (re: atonal music), and Lygia Clark (re: touch), Georges Batailles *Informe*, and Yves Alan-Bois’s and Rosalind Krauss’s postmodern updates (re: formlessness), the theories of self and subjectivity by Michael Foucault, Giles Deleauze, and Felix Guattari, (re: the body), Ludwig Wittgenstein (re: embodied perception), to name a few. [↑](#footnote-ref-23)
23. Kirk Varnedor, *Why Abstract Art?* in Maria Lind, *Abstraction*, ed. Iwona Blazwick, Documents of Contemporary Art (London: Whitechapel Gallery, 2013). 48 [↑](#footnote-ref-24)
24. Ibid. 55 [↑](#footnote-ref-25)
25. Ibid. 57 [↑](#footnote-ref-26)
26. Ibid. 62 [↑](#footnote-ref-27)
27. *Psychonaut* combines the Greek *psyche* “soul, spirit, mind”, and *nautes* “sailor, navigator” to describe a person who engages in altered states of consciousness to methodically describe and explain the effects induced by meditation or mind-altering substances. [↑](#footnote-ref-28)
28. Aldous Huxley, *The Doors of Perception and Heaven and Hell* (New York: Harper Perennial Classics, 1960). [↑](#footnote-ref-29)
29. William Blake, *The Marriage of Heaven and Hell / by William Blake, with an Introduction and Commentary by Sir Geoffrey Keynes*, ed. Geoffrey Keynes (New York: Oxford University Press, 1994). [↑](#footnote-ref-30)
30. Terence McKenna, 1989. (citation needs reformatting for Lecture format) [↑](#footnote-ref-31)
31. Ibid. [↑](#footnote-ref-32)
32. The end of the late modern period is typically understood as 1945, the year that the United States military all-but ended World War II with the use of nuclear weapons on the civilians of Nagasaki and Hiroshima, Japan. This date, and the later year of 1950, has been floated by the Anthropocene Working Group as an appropriate date to mark the beginning of the Anthropocene Era, the Age of Man. [↑](#footnote-ref-39)
33. Edward A. Shanken, *Systems / Edited by Edward A. Shanken* (Cambridge: MIT Press, 2015). [↑](#footnote-ref-41)
34. Martin Kemp, *Structural Intuitions : Seeing Shapes in Art and Science* (Charlotesville: University of Virginia Press, 2016). [↑](#footnote-ref-42)
35. The pre-reflective experience is a state of unconscious awareness preceding the consciousness forming associations to past experiences and word and image signs. [↑](#footnote-ref-43)
36. Kemp, *Structural Intuitions : Seeing Shapes in Art and Science*; "Structural Intuitions : Seeing Shapes in Art and Science," (2016). [↑](#footnote-ref-44)