A WHEEL INSIDE A WHEEL

by

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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.

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**DEDICATION**

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

# ACKNOWLEDGEMENTS

Here is where I’m going to write an acknowledgement.

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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)

degreesrealismI 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? No.

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 placeholder for linear perspective drawing

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. I was seduced by modernism’s scientific ways of conceiving reality.

![A picture containing ground, outdoor, several

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/7QAsUGhvdG9zaG9wIDMuMAA4QklNBCUAAAAAABDUHYzZjwCyBOmACZjs+EJ+/+FKnEV4aWYAAE1NACoAAAAIAAsACwACAAAAJgAACJ4BDwACAAAABgAACMQBEAACAAAACgAACMoBEgADAAAAAQABAAABGgAFAAAAAQAACNQBGwAFAAAAAQAACNwBKAADAAAAAQACAAABMQACAAAAJgAACOQBMgACAAAAFAAACQqHaQAEAAAAAQAACR7qHAAHAAAIDAAAAJIAABbuHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABXaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0AEFwcGxlAGlQaG9uZSA1cwAAAABIAAAAAQAAAEgAAAABV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE3OjA2OjA4IDE4OjM1OjI0AAAjgpoABQAAAAEAABLUgp0ABQAAAAEAABLciCIAAwAAAAEAAgAAiCcAAwAAAAEA+gAAkAAABwAAAAQwMjIxkAMAAgAAABQAABLkkAQAAgAAABQAABL4kQEABwAAAAQBAgMAkgEACgAAAAEAABMMkgIABQAAAAEAABMUkgMACgAAAAEAABMckgQACgAAAAEAABMkkgcAAwAAAAEABQAAkgkAAwAAAAEAEAAAkgoABQAAAAEAABMskhQAAwAAAAQAABM0knwABwAAA0YAABM8kpEAAgAAAAQ2NTkAkpIAAgAAAAQ2NTkAoAAABwAAAAQwMTAwoAEAAwAAAAEAAQAAoAIABAAAAAEAAAxkoAMABAAAAAEAAAhbohcAAwAAAAEAAgAAowEABwAAAAEBAAAApAIAAwAAAAEAAAAApAMAAwAAAAEAAAAApAUAAwAAAAEAHQAApAYAAwAAAAEAAAAApCAAAgAAACEAABaCpDIABQAAAAQAABakpDMAAgAAAAYAABbEpDQAAgAAACMAABbK6hwABwAACAwAAArI6h0ACQAAAAEAABAuAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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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 2 Yellowknife Bay Mars

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?) It seems the outcome of the 20th century’s scientific progress and the resulting technological influence 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. Contemporary conceptions of reality require an elevated flexibility to uncertainty that is not easily depicted in the typically static media of drawing and painting. This has led me to an overall 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.

This thesis will trace a limited course through early modern notions of image making and optical devices, find their connections to conceptions of reality, and point to how they laid the foundation for 20th century modernism. Lenses, photography, and film will surface, but definite answers on their influence will not. I will explore how the older Western model for picturing reality put a lot of emphasis on the visual sense and consider alternate stand points. I wonder what obsolete models of portraying reality I have inherited from that 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 century and early 21st century

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, I speculate on the role sensing and recording technologies have in altering perceptions and observations of reality.

In the coming sections, I will write about the sense of vision, observation, drawing, and drawing as thinking. Leonardo da Vinci scholar Martin Kemp provides a touchstone for my own musings on drawing as thinking and historicizes the main characters of the early modern period when the notion of modernist visualities originated. My research on vision led to the earliest cameras and theories of “the observer” by way of Kemp, Jonathan Crary, and Hal Foster, which ties early modern point-perspective drafting with cameras and the modern revolution of cinema. (mention others that come up in this chapter and order these sentences in the same order as they come up)

I analyze my past work in terms of its “scopic regime”.

# 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 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, 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

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. I became preoccupied with representational drawing as a way of seeing. *(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 undergrad, the da Vinci notebooks had become a popular scholarly topic and were frequently referred to in my drawing lectures. One of the main lessons was “economy of line”. Another was the range of tight detail and loose description. Viewing the sketches as a thought process, I remember analyzing the artist’s attention. Leonardo da Vinci scholar Martin Kemp writes… *(where I found touchstones in early research and…)*

(paragraph or two about da Vinci by way of Kemp, especially about drawing, notebooks, using water motion as example – find what’s most related to my work – radiating waves, branches, meander, action – static/dynamic – also quiet contemplation, maybe not there?)

(Reminder: does the mechanism for capturing the experience influence the record, for da Vinci? – can I tease that out anywhere?)

Around the time I graduated undergrad in 2012, I came across the Hockney-Falco thesis in *Secret Knowledge: Rediscovering the Lost Techniques of the Old Masters*. *(…where that led)*

Diagram

Description automatically generated

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

I started to think about how new tools gave artists of the European Renaissance novel ways to envision of the world. Lens technology and architectural perspective drawing, guided by geometry and mathematics, provided a rigorous framework to build visions of reality according to rules reflective of society’s values. “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*.[[2]](#footnote-4)

Crary argues that western philosophy adopted the camera lucida (or camera obscura CHECK), formalized in Europe around the turn of the seventeenth century, as a framework for knowledge



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

Early telescopes and microscopes made visible 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. There was a rationalistic way of knowing and depicting the world driven by the human sense of vision as a clear pathway to knowledge.

A picture containing text

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

### Early modern practice

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. (a little more here with image)

![A picture containing ground, outdoor, several

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/7QAsUGhvdG9zaG9wIDMuMAA4QklNBCUAAAAAABDUHYzZjwCyBOmACZjs+EJ+/+FKnEV4aWYAAE1NACoAAAAIAAsACwACAAAAJgAACJ4BDwACAAAABgAACMQBEAACAAAACgAACMoBEgADAAAAAQABAAABGgAFAAAAAQAACNQBGwAFAAAAAQAACNwBKAADAAAAAQACAAABMQACAAAAJgAACOQBMgACAAAAFAAACQqHaQAEAAAAAQAACR7qHAAHAAAIDAAAAJIAABbuHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABXaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0AEFwcGxlAGlQaG9uZSA1cwAAAABIAAAAAQAAAEgAAAABV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE3OjA2OjA4IDE4OjM1OjI0AAAjgpoABQAAAAEAABLUgp0ABQAAAAEAABLciCIAAwAAAAEAAgAAiCcAAwAAAAEA+gAAkAAABwAAAAQwMjIxkAMAAgAAABQAABLkkAQAAgAAABQAABL4kQEABwAAAAQBAgMAkgEACgAAAAEAABMMkgIABQAAAAEAABMUkgMACgAAAAEAABMckgQACgAAAAEAABMkkgcAAwAAAAEABQAAkgkAAwAAAAEAEAAAkgoABQAAAAEAABMskhQAAwAAAAQAABM0knwABwAAA0YAABM8kpEAAgAAAAQ2NTkAkpIAAgAAAAQ2NTkAoAAABwAAAAQwMTAwoAEAAwAAAAEAAQAAoAIABAAAAAEAAAxkoAMABAAAAAEAAAhbohcAAwAAAAEAAgAAowEABwAAAAEBAAAApAIAAwAAAAEAAAAApAMAAwAAAAEAAAAApAUAAwAAAAEAHQAApAYAAwAAAAEAAAAApCAAAgAAACEAABaCpDIABQAAAAQAABakpDMAAgAAAAYAABbEpDQAAgAAACMAABbK6hwABwAACAwAAArI6h0ACQAAAAEAABAuAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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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 certainly not something about “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.

I became so skeptical that a static visual image could say so much about space, I even made sculptures during this time. (fig.)

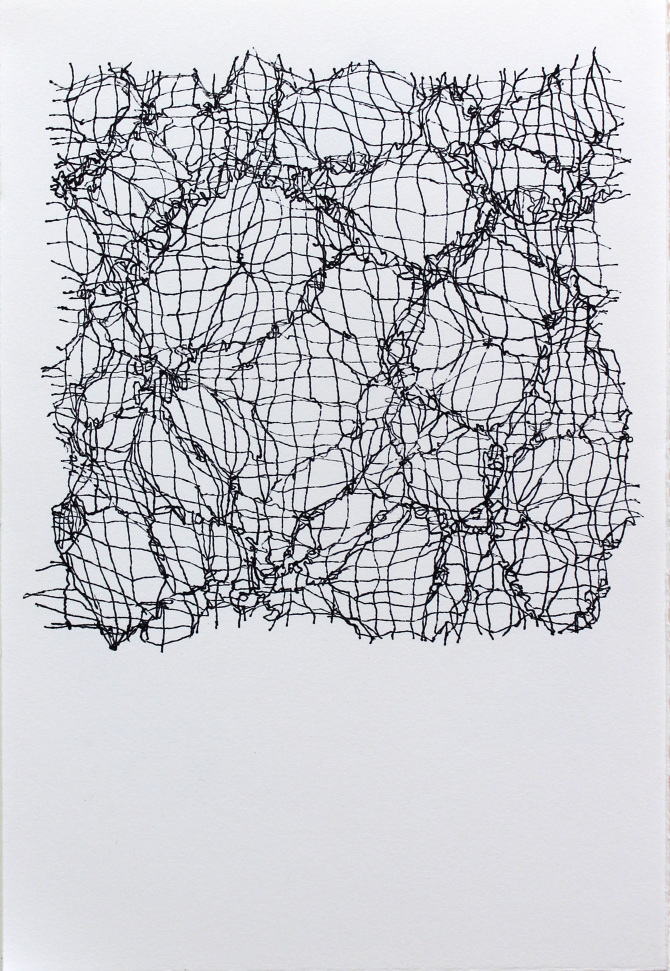


Figure 7. placeholder for past works

## 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 and …

I gained the intellectual framework in graduate school to study 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 says the early 19th century is when physical optics merges with physics, and physiological optics comes to dominate the study of vision.[[3]](#footnote-6) He links early Enlightenment optical experiments and later Enlightenment and rationalist philosophers and theorists to the thinking of postmodernists and structuralists.

His argument, which I find so interesting as a speculation on models of reality, is that, as a model of reality, 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. (What arises in its place?) The interweaving of practices of visuality and visualization, of science, mechanics, and technology, and of philosophies of reality is exemplified in this study by Crary. He points out how studies into optics led to “proto-cinematic devices”[[4]](#footnote-8), like the thaumatrope, phenakistiscope, zoetrope, kaleidoscope, and stereoscopic photography. (fig) These devices comprise the bulk of the 19th century break from the episteme of the camera obscura with their dynamic and circumstantial nature.

Crary hints at the divide in the following quote: “By insisting that knowledge, and specifically knowledge of space and depth, is built up out of an orderly accumulation and cross-referencing of perceptions on a plane independent of the viewer, eighteenth-century thought could know nothing of ideas of pure visibility which would arise in the nineteenth century.”[[5]](#footnote-9) (talk on the “pure visibility”, Vision and visuality, “the eye” vision and the static fixed point of view and the gaze of the cartesian perspectivalism – martin jay in scopic regimes, objectivity, the objective observer, subject/object and monocular/binolcular vision vs renaissance codes, modernism brings in the body through a localization of bodily functions and takes away the aura of visuality, relocating it in the corporeal realm – Jonathan crary)

into theories

“Modernizing Vision” brings in the body[[6]](#footnote-10)

Spectacle, spectator, dreams, surrealism, and cinema, moving image illusion and proto-cinematic devices – Rosalind krauss[[7]](#footnote-11)

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 of contemporary reality is almost too wide to cross. But with this historical framing, I’m able to continue being critical about the ways depicting reality in the static or dynamic image can reflect ways of perceiving reality in societies.

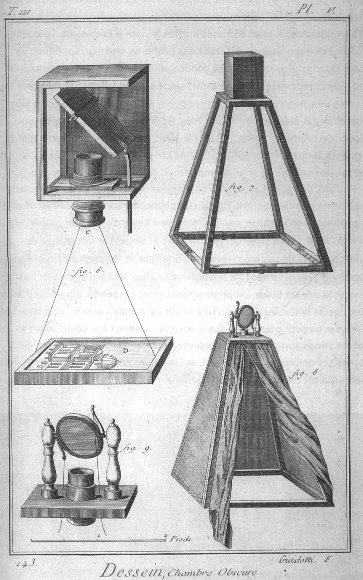


Figure 8. Camera lucida and optical device figure placeholder

Diagram, engineering drawing

Description automatically generated

Figure 9. camera lucida illustration placeholder

(put mcluhan here with changing perspective and thinking-pattern from medium in the message MIT press essay excerpt)

A collage of a person riding a horse

Description automatically generated with medium confidence

Figure 10. Muybridge early stop-motion 1878 placeholder iamge

### Image-making and imagination

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 tried to imagine what written language might look like to a pre-symbolic consciousness, a consciousness that hadn’t fully grasped a working knowledge of abstraction, but which nonetheless attempted to behold the mysteries of existence. I was cognizant of cave painting and hieroglyphics, illuminated manuscripts, and algebra. 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?

I thought of Duchamp’s Standard Stoppages[[8]](#footnote-21), and Max Ernst’s surrealist *frottages[[9]](#footnote-22)*, and Pollack’s drip paintings[[10]](#footnote-23), 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. 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. This series was a way for me to have a working knowledge of the materials and mediums of drawing enough to explore process.

A close-up of a drawing

Description automatically generated with low confidence

Figure 11. placeholder for early grad work

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 a marking tool across a surface. A stick in the sand. A wet foot on a stone. Colored dust smudged with a finger. Or as elaborate as a prepared surface of finely ground and sifted marble dust suspended in skin glue medium marked with .999 percent fine silver.[[11]](#footnote-24) Certain surfaces do their recording better, or with a different quality, than others do. 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?

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 texture. The trace can be defined as a sign of an object through its imprint, “the footprint, the death mask, the photograph…”.[[12]](#footnote-25) It falls under the linguistic *Theory of Signs* expounded by Charles Sanders Peirce in the late 19th century. Rosalind Krauss’s two part, 1977 essay “Notes on the Index: Seventies Art in America” describes the “logic of the index” that she perceived in the practices of artists of the American contemporary arts scene of the 1970’s.[[13]](#footnote-26) The says of artworks she encountered at P.S. 1 “the works I have been describing represent the building through the paradox of being physically present but temporally remote”, and links this quality to Roland Barthes’ and Walter Bejamin’s theories of the photograph.[[14]](#footnote-27)

Need more here like 3 more paragraphs

## Materiality

My essential questions still come down to how my works can speak to a record of expressions or impressions based on lived observation, and how, as artifacts recording physical action, they can also speak to the manifestation of the process they record. What about or what quality of their material existence (not necessarily their form) is expressed or given physical manifestation? What are the processes saying through the materials, and what are the materials saying through the process?

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.

It attests to the beauty of direct experience in its material form and speaks to issues of the (then newfound) simultaneity of communication. (speak more on this)

A close-up of a person's eye

Description automatically generated with low confidence

Figure 12. McLuhan book placeholder image

(digital communications and the shift from picture to data? Also in the book) A picture containing text

Description automatically generated

Figure 13. 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-28)

(Is there anything else I want to say here? What is the point of this section – to link from the beginning to the next chapter…)

### Medium and materiality through making

My practice blah blah arriving at ideas and speculations on medium through making linked to materiality.

# New Media

What does it mean to desire to capture an experience? (introduce with paragraph similar to one for old media chapter)

## Modern visions

Two psychonaut philosophers are influential to my conceptualization of a shift from modernism to postmodernist rumblings; 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. (more here)

Aldous Huxley, 20th century author and philosopher wrote an account of his professional experience of a dose of the psychedelic mescalin in *The Doors of Perception*:

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.[[16]](#footnote-31)

Huxley’s account gave some intellectual credence to altered states of consciousness as an area to address when considering 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. 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.[[17]](#footnote-32)

Text, letter

Description automatically generated

Figure 14. 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 philosophy), we have caused cataclysmic and irreparable change to the ecosphere, not least in our constant and habitual pollution of water, air, and soil.[[18]](#footnote-33)

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.[[19]](#footnote-34) (more here) (more references? Any ideas?) (link in with Crary and Krauss from Sensorium?)

## Postmodern sensorium

To articulate the shift from modernism to postmodernism in art, I turn to Caroline A. Jones. “The Mediated Sensorium”, an essay anchoring *Sensorium: Embodied Experience, Technology, and Contemporary Art*. In it, she explores the post-modernist and contemporary turn to new media (expand). (Tie into my interests and questions)

Beginning from mid-century modernism in the US, she 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.[[20]](#footnote-36) (more)

I have sought to question this very privileging of the visual sense in my observation and image-making practice. 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. (more plus quote)

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-37) Pointing to these possible subliminal and alternative histories acknowledges the multiplicity of perceiving subjects

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.[[22]](#footnote-38)

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

Artists that heralded the rise of postmodernism in this socio-political and cultural environment were finding ways to cope with this 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.[[23]](#footnote-39) Perhaps the nonsensical-ness of Pollock’s drip paintings, the incompleteness of Frankenthaler’s and Krasner’s, the limited scope of Rauschenberg, and closed frames of reference of Smithson (maybe change reference) are part of its message.

“Our ‘technoscientific naturecultures”, Jones quotes Donna Haraway’s name for the new sensorium. I find it to be especially in alignment with my impression of art and visual culture today.[[24]](#footnote-40) 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.

(DoCA Networks examples)

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…)[[25]](#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.[[26]](#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

## 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 this 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 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 mark it down outside your head just to check yourself, to reflect on that experience you must have just had. (I swear I saw this quote)

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 projections or lens-based 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.

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 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)

## Subsection 2 - ?

Using a process that contains a kernel of an impression, for example, monoprint, frottage, or action marking, is one of my methods to allude to the pre-reflective experience.[[27]](#footnote-49) 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. [Relate to chaos to perception and material???]

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.”[[28]](#footnote-50)

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. [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

# 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. Jay, *Scopic Regimes of Modernity* in Hal Foster, *Vision and Visuality* (Seattle: Bay Press, 2009). 5-6 [↑](#footnote-ref-4)
3. Jonathan Crary, "Techniques of the Observer," *October* 45 (1988). 9 [↑](#footnote-ref-6)
4. Rosalind Krauss, “The Im/pulse to See”, in Foster, *Vision and Visuality*. 58 [↑](#footnote-ref-8)
5. Crary, "Techniques of the Observer.", 25 [↑](#footnote-ref-9)
6. Jonanthan Crary, “Modernizing Vision”, in Foster, *Vision and Visuality*. [↑](#footnote-ref-10)
7. Rosalind Krauss “The im/pulse to see” in ibid. [↑](#footnote-ref-11)
8. standard stoppages reference (museum collection) [↑](#footnote-ref-21)
9. Frottages reference (museum collection) [↑](#footnote-ref-22)
10. Drip painting reference (museum collection) [↑](#footnote-ref-23)
11. Also known as *silverpoint*, or broadly, *metalpoint*. [↑](#footnote-ref-24)
12. Mary Ann Doane, "Indexicality: Trace and Sign: Introduction," *differences* 18, no. 1 (2007). 2 [↑](#footnote-ref-25)
13. Rosalind Krauss, "Notes on the Index: Seventies Art in America. Part 2," *October* 4 (1977). 67 [↑](#footnote-ref-26)
14. See Roland Barthes “Rhetoric of the Image” (can’t find citation), and “Art in the age of mechanical reproduction” in Walter Benjamin et al., *Illuminations / Walter Benjamin ; Translated by Harry Zohn ; Edited and with an Introduction by Hannah Arendt ; Preface by Leon Wieseltier* (New York: Schocken Books, 2007). [↑](#footnote-ref-27)
15. 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).+ [↑](#footnote-ref-28)
16. Aldous Huxley, *The Doors of Perception and Heaven and Hell* (New York: Harper Perennial Classics, 1960). [↑](#footnote-ref-31)
17. 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-32)
18. Terence McKenna, 1989. (citation needs reformatting for Lecture format) [↑](#footnote-ref-33)
19. Ibid. [↑](#footnote-ref-34)
20. 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-36)
21. Ibid. 11. [↑](#footnote-ref-37)
22. Ibid. 42. [↑](#footnote-ref-38)
23. Anthropocene reference… [↑](#footnote-ref-39)
24. Ibid, (find page number). [↑](#footnote-ref-40)
25. Edward A. Shanken, *Systems / Edited by Edward A. Shanken* (Cambridge: MIT Press, 2015). [↑](#footnote-ref-41)
26. Martin Kemp, *Structural Intuitions : Seeing Shapes in Art and Science* (Charlotesville: University of Virginia Press, 2016). [↑](#footnote-ref-42)
27. 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-49)
28. Kemp, *Structural Intuitions : Seeing Shapes in Art and Science*. [↑](#footnote-ref-50)