A WHEEL INSIDE A WHEEL

by

LIZZY STORM

Under the Direction of Craig Dongoski, MA/PhD

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 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

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A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of

Master of Fine Arts

in the College of the Arts

Georgia State University

2022

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2022

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May 2022

**DEDICATION**

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

# ACKNOWLEDGEMENTS

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

TABLE OF CONTENTS

[ACKNOWLEDGEMENTS v](#_Toc100588208)

[LIST OF FIGURES 3](#_Toc100588209)

[1 INTRODUCTION 4](#_Toc100588210)

[2 old media 8](#_Toc100588211)

[2.1 Subsection 1 – early modern visions 8](#_Toc100588212)

[2.1.1 Early modern practice 11](#_Toc100588213)

[2.2 Subsection 2 – (19](#_Toc100588216)[th](#_Toc100588216) [c.) laying the foundation for 20](#_Toc100588216)[th](#_Toc100588216) [century modernism “the threshold of our modernity” 15](#_Toc100588216)

[2.2.1 Image-making and imagination 18](#_Toc100588220)

[2.3 Subsection 5 – Media studies, materiality, McLuhan 20](#_Toc100588221)

[3 New Media 25](#_Toc100588222)

[3.1 Subsection 1 – mid-century modernism and alternate states of consciousness 25](#_Toc100588237)

[Subsection 2 - 27](#_Toc100588238)

[3.2 Modernist sensorium 27](#_Toc100588240)

[3.3 Subsection 3 – artist examples and influences – nodes , flows and networks 28](#_Toc100588241)

[4 my journey from old to new in studio 30](#_Toc100588242)

[4.1 Subsection 1 – expressionist and postmodern techniques 30](#_Toc100588243)

[Subsection 2 - ? 32](#_Toc100588264)

[4.2 32](#_Toc100588265)

[5 A wheel inside a wheel exhibition 35](#_Toc100588266)

[6 Conclusion 36](#_Toc100588267)

[Bibliography 37](#_Toc100588268)

[APPENDICES 38](#_Toc100588269)

[Appendix A 38](#_Toc100588270)

[Appendix A.1 38](#_Toc100588271)

[Appendix A.2 38](#_Toc100588272)

[Appendix B 38](#_Toc100588273)

[Appendix C 38](#_Toc100588274)

# LIST OF FIGURES

[Figure 1 placeholder for linear perspective drawing 5](#_Toc100656147)

[Figure 2 Yellowknife Bay Mars 6](#_Toc100656148)

[Figure 3. da Vinci placeholder image 1 9](#_Toc100656149)

[Figure 4. placeholder for decartes optics notebook drawing/publication engraving 11](#_Toc100656150)

[Figure 5. placeholder image for Galileo astronomy ink drawings/paintings 11](#_Toc100656151)

[Figure 6 "View of Yellowknife Bay, Mars" charcoal, pastel, conte crayon, and acrylic on canvas, 108" x 84", 2016-2017 12](#_Toc100656152)

[Figure 7. placeholder for past works 14](#_Toc100656153)

[Figure 8. Camera lucida and optical device figure placeholder 16](#_Toc100656154)

[Figure 9. camera lucida illustration placeholder 17](#_Toc100656155)

[Figure 10. Muybridge early stop-motion 1878 placeholder iamge 18](#_Toc100656156)

[Figure 11. placeholder for early grad work 20](#_Toc100656157)

[Figure 12. McLuhan book placeholder image 22](#_Toc100656158)

[Figure 13. McLuhan book spread placeholder image 2 23](#_Toc100656159)

[Figure 14. Doors of perception Blake image placeholder 26](#_Toc100656160)

# 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. 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.

I will focus on the “modernist sensorium’s” emphasis on the visual sense and the contrasts between static and dynamic visual media. In comparison to that, I will reflect on notions of the new sensorium of the late 20th 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.

# 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.

In this section, I will write about the sense of vision, observation, drawing, and drawing as thinking. My research on vision led to the earliest cameras and theories of “the observer” by way of Jonathan Crary and Hal Foster.

## 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. Thinking of the visual arts, one would agree this sense might be important, but it is the most important? Simply put: 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.

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…(paragraph or two about da Vinci by way of Kemp, especially about drawing, notebooks, using water motion as example)(Reminder: does the mechanism for capturing the experience influence the record, for da Vinci?)

Diagram

Description automatically generated

Figure 3. da Vinci placeholder image 1

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. (some history) Brunelleschi, della Francesca, Alberti, circa 1425. (not too much, pull one from somewhere it its better said)

Camera lucida and perspective drawing history (Hockney-Falco thesis stuff…) Crary argues that western philosophy adopted the camera lucida, formalized in Europe around the turn of the seventeenth century, as a framework for knowledge

(Also get more from Kemp and Crary re: optical devices, camera lucida, and early modernism) (Vermeer)

Perspective drawing technology arose around the same time as the development of Descartes analytic geometry, a math (which might be considered a type of technology) that ultimately made recalculating the shape of the solar system possible, laying a foundation for the Age of Reason. (Figure: illustration comparing geometry hand written notes with optics diagrams) (More on mechanism for capturing experience – still pen and ink and slow drawing at this time, engravers translated drawings to printable plates, but it was cumbersome) (one sentence, pull from somehwere if better said)



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

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. (some figures from Galileo paintings of moon, Jupiter, etc. as seen through telescope) (a few more sentences – Hal Foster Scopic Regimes look for microscope and VanLewenhook ) This 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

### 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 (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.

(close section – connect each statement above to thoughts mentioned in section – drawings, perspective, early modern sense of vision)

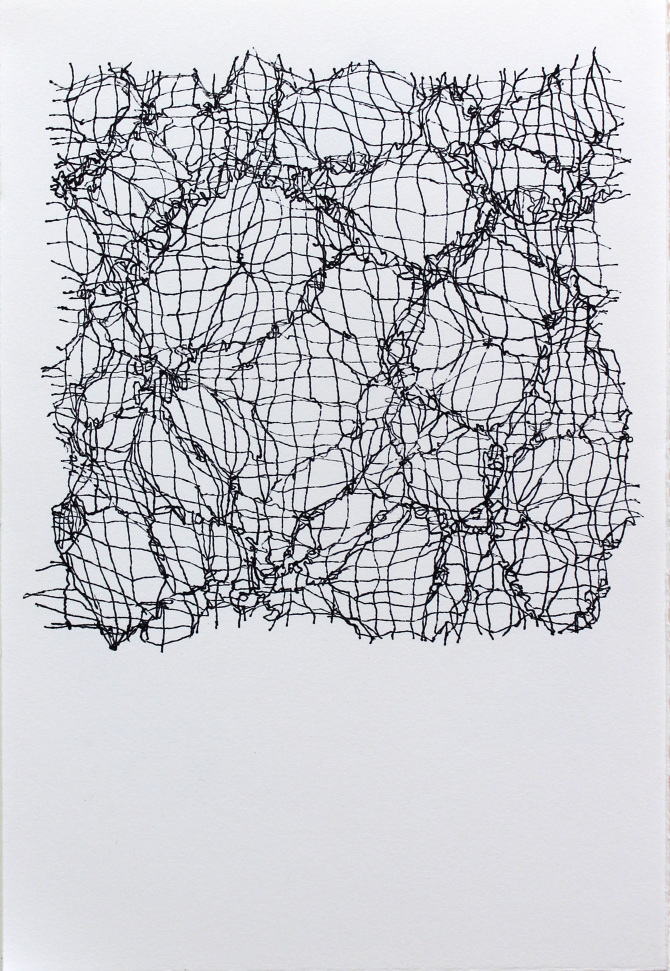


Figure 7. placeholder for past works

## Subsection 2 – (19th c.) laying the foundation for 20th century modernism “the threshold of our modernity”

(How optical devices in early modern times through to modernism drove visual sensing and visualization as modes of thinking and knowing) (the last section was the cartesian, this section is how I’m getting to moving pictures, video, etc. the dynamic) (keep relating it to my work – I’m thinking about this because I think of my work in terms of vision, visualizing, the visual, etc., and my move from static to dynamic and back and forth)

This burgeoning practice of mine coalesces around the theme of vision, which I take in multiple directions. I came to find the work of professor 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”. In the early 19th century, the moment when physical optics merges with physics, physiological optics comes to dominate the study of vision.[[2]](#footnote-5) He traces a line through early Enlightenment optical experiments and later Enlightenment and rationalist philosophers and theorists. He establishes that "a precondition of modernization was the 'uprooting' of vision from the delimited and static relations of the camera obscura."[[3]](#footnote-6)

Studies into optics led to “proto-cinematic devices”[[4]](#footnote-7), the thaumatrope, phenakistiscope, zoetrope, kaleidoscope, and stereoscopic photography. These comprise the bulk of the 19th century break from the episteme of the camera obscura.

“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-8) (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)

“Modernizing Vision” brings in the body[[6]](#footnote-9)

Spectacle, spectator, dreams, surrealism, and cinema, moving image illusion and proto-cinematic devices – Rosalind krauss[[7]](#footnote-10)

(Summary ?). The enduring modern pursuit of photography and lens sensing had implications in science and aesthetics that revolutionized contemporary conceptions of reality.

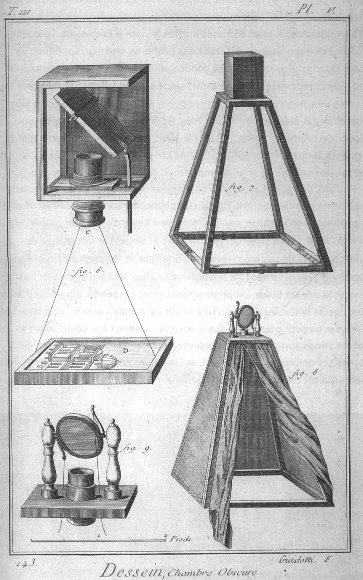


Figure 8. Camera lucida and optical device figure placeholder

Looking at the historical influence of optical devices opens doors to lines of questioning about the aesthetic foundations of modernism. (Kemp 20th century optical device and art reference, early film, stop-motion made sensing slowed down motion possible, changing the perception of space and time, and finding a link to contemporaneous science) (Crary?)

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 this expanded vision of drawing. What I did was make visualizations of esoteric knowledge. I tried to imagine what 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-20), and Max Ernst’s surrealist *frottages[[9]](#footnote-21)*, and Pollack’s drip paintings[[10]](#footnote-22), 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. 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 this subjective, relational way. What can I allow my materials to say by allowing them to be themselves?

Need more here like 3 more paragraphs

## Subsection 5 – Media studies, materiality, McLuhan

My essential questions still come down to how my works can speak to a record of expressions or impressions, 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? This relational inquiry is closer to a design practice, a sensibility I see in contemporary art, especially in post-war minimalism, post-abstract expressionism, land art, and installation and atmospheric art.

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… [[11]](#footnote-23)

(DoCA Materiality quotes)

# New Media

(introduce with paragraph similar to one for old media chapter)

## Subsection 1 – mid-century modernism and alternate states of consciousness

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.[[12]](#footnote-26)

Huxley’s account gave some intellectual credence to altered states of consciousness as an area to address when considering perception and society. (can I find anything else on alternate states of consciousness to contextualize or elaborate?)

He articulated a shift in interest from Cartesian “place and distance” to an archaic “being and meaning”. (something about this maybe, an outside reference?)

Notably for my practice, Huxley points out the increased significance of “relationships within a pattern” under the mescalin influence.

He was able to articulate 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.[[13]](#footnote-27) (insert figure on spread containing Blake quote)

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.[[14]](#footnote-28)

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.[[15]](#footnote-29) (more here) (more references? Any ideas?)

## Subsection 2 - Modernist sensorium

To look deeper into the shift from modernism to postmodernism in art, I turn to Caroline A. Jones. “The Mediated Sensorium”, an essay anchoring *Sensorium*, explores the post-modernist and contemporary turn to new media in a book accompanying a 2006 exhibition at MIT List Art Center.

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.[[16]](#footnote-31) (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”.[[17]](#footnote-32)

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.[[18]](#footnote-33)

## 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.[[19]](#footnote-34) 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.[[20]](#footnote-35) 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 late 20th, early 21st century (after learning their names, of course). 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 quote from intro to Systems or Networks…)[[21]](#footnote-36)

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 radio to creek beds, and folding or buckling across man-made and organic material worlds.[[22]](#footnote-37) The more I seek the experience of patterns, the more I find them. What is that about? What is it drawing my attention? [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 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. The whole idea turned me off, and so I learned to love charcoal and ink and paper.

I’ve found the character of these 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 in graphite or charcoal or crayon or ink on paper, vellum, or papyrus and their ephemerality, but the simultaneous permanence associated with marks on prepared surfaces.

These marked surfaces, from the earliest known clay tablet, meant to be recycled, to the ubiquitous sketchbook page, constitute an essential aspect of material history, recording characteristics of and evolutions in thought both visually and in writing, which initially evolved hand in hand. 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. Time will only tell what becomes of our volumes of 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.

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 angle.

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)

## 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.[[23]](#footnote-44) 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]

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 [insert] and the title references chaos theory and writings on this unlikely topic that became popular through the best seller Chaos. [Relate 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 this. The energy patterns leave physical traces in the material manifestation. Living, organic materials in dynamic processes with their environment display these patterns the same way that inert materials do. (more here) [something about the manifestation of non-human and non-living energies]

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 purposeful pre-reflective experience, I also employ lens-based technologies to augment, supplement, and contrast that 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 practices couples these visuo-spatial, extra-sensory perceptions with time-dependent, organic cultivation of forms, and non-traditional, direct impressions of gestures and actions in space to explore the intersections of scientific thinking and technology with embodied experience. Combining tactile, bodily processes and traditional materials with electronic sensing and high-tech lens technologies places my body into the process of integrating my expanded perceptions into a . … (something come back later)

# A wheel inside a wheel exhibition

Recap exhibition

# 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. Crary, 9 [↑](#footnote-ref-5)
3. Crary, 22 [↑](#footnote-ref-6)
4. Rosalind Krauss, “The Im/pulse to See”, in (Foster 2009) 58 [↑](#footnote-ref-7)
5. Crary, 25 [↑](#footnote-ref-8)
6. Jonanthan Crary, “Modernizing Vision”, in (Foster 2009) [↑](#footnote-ref-9)
7. Rosalind Krauss “The im/pulse to see” in (Foster 2009) [↑](#footnote-ref-10)
8. standard stoppages reference (museum collection) [↑](#footnote-ref-20)
9. Frottages reference (museum collection) [↑](#footnote-ref-21)
10. Drip painting reference (museum collection) [↑](#footnote-ref-22)
11. (McLuhan 1967)+ [↑](#footnote-ref-23)
12. (Huxley 1960) [↑](#footnote-ref-26)
13. (Blake 1994) [↑](#footnote-ref-27)
14. (McKenna 1989) (citation needs reformatting for Lecture format) [↑](#footnote-ref-28)
15. Ibid. [↑](#footnote-ref-29)
16. (Jones and Arning 2006) [↑](#footnote-ref-31)
17. Ibid. 11. [↑](#footnote-ref-32)
18. Ibid. 42. [↑](#footnote-ref-33)
19. Anthropocene reference… [↑](#footnote-ref-34)
20. Ibid, (find page number). [↑](#footnote-ref-35)
21. (Shanken 2015) [↑](#footnote-ref-36)
22. (Kemp 2016) [↑](#footnote-ref-37)
23. 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-44)