The theory of everything. A Theory that proposes the Golden ratio is the connecting key between the Theory of relativity, Quantum mechanics, Art, Humanities, and Life itself. This piece depicts those many different elements, representing a depiction of the many different ideas surrounding the Theory. A proposal that could be the connection to much more. So prevalent, it isn't coincidence.

- Janae Wiggins - ***Consciousness,*** Mixed media on canvas

While contemplating the quantum theory of Superposition, Erwin Schrödinger conducted a thought experiment involving a box, a bomb, a detonator, and a cat. "SuperCat" is the moment when the box is still closed and the answer of whether or not the cat has detonated the bomb is unknown to the viewer. The theory of superposition says that in this state, the cat would be both dead and alive simultaneously. To observe the cat in this superposition, the viewer must also exist in the box because the cat will assume one position, dead or alive when the box is opened and observed.

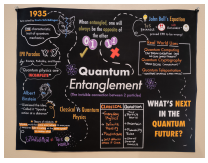
- Trinity Pettway - ***"SuperCat"*** ,Acrylic and oil pastel on canvas

This piece visualizes two concepts found within quantum physics: fractal patterns and Entanglement. Fractal patterns are simple mathematic patterns that appear to repeat infinitely in varying scales. The Entanglement principle suggests that when two particles connect, their quantum states remain entangled even when separated by large distances. Color shift paints are also utilized to introduce the quantum concept, the Observer Effect.

- Eriana Harris - ***Fractal Entanglement,*** Acrylic and resin on canvas

In quantum physics superposition refers to existing in different states at the same time. One of the earliest way to explain this phenomenon is if a cat was in a closed box, the cat is neither dead or alive but BOTH! The cat is in this between state until the cat is observed. I also included waves of blue and red to represent the double slit experiment that also explains a particle existing in two places at one time! With my artistic approach I chose do an interactive anaglyph to view them as both then either or as they observe through blue and red tint.

-Ta'Myah Wiggins - ***Superposition double vision***, Acrylic and on canvas



"Let's Get Entangled" is a digital art project that delves into the fascinating world of quantum entanglement. This piece explores the historical background and core concepts of entanglement through a visually engaging narrative. Inspired by the dynamic and educational style of conference visual notes, it combines illustration and explanation to make the abstract principles of quantum physics more accessible and captivating.

- Adrianna Long - ***"The Path of Entanglement",*** Digital Media

"Where is Everybody" refers to the Fermi Paradox. The paradox names the contradiction between the high likelihood of intelligent extraterrestrial life and the lack of strong evidence for it. "Where is everybody!?," the physicist Enrico Fermi is said to have asked in a conversation about the matter. It's fun to consider the possibility of intelligent bodies out there. And yet Fermi's Paradox points to another paradox. Consider the popular curiosity about extraterrestrial life against the inattention to so many forms of life and intelligence on Earth. For this piece I wanted to think with my friend the artist, poet, educator, and photographer Maia Dery who has always helped me notice more of what counts as "everybody." Maia's photograph is what you see inside the piece.

- Mark Dixon - ***Where is Everybody,*** Mixed media sculpture

This piece visualizes the concept of Entanglement in quantum physics. This concept suggests that when two particles become entangled, they remain connected even if long distances separate them. Because of this, you will always be able to tell the state of one particle, based on the current state of the other particle. For example, say, as shown in my piece, two coins become entangled and are then taken to opposite ends of the earth and flipped. If coin 1 lands on heads you will know with certainty that coin 2 has landed on tails and vice versa.

I used crochet to represent the entangled portion of the concept and kept a warm color scheme to invoke a feeling of vibrant activity. The lines that dissect the coins on each canvas are there to convey the notion that before you check on the state of each particle, they are in both possible states at the same time reflecting superposition.

- Marley Noel - ***Entanglement,*** Acrylic and oil on canvas, acrylic yarn

Ultimately, this piece is about the act of questioning itself—whether in the realm of art or science. It is about embracing the journey of inquiry, knowing that the path is as significant as the destination. Just as Young's double slit experiment continues to provoke debate, so too does this artwork challenge the observer to reflect on their role in the process of discovery. Here, observation is not a passive act; it is an active, transformative force—one that can shift our understanding of the universe. Through this piece, I invite you to question, to observe, and perhaps to find something new within yourself.

- Aspen Watkins - ***Observing Thomas Young's Notes,*** Mixed media

Quantum Study bridges the realms of art and science, offering an abstract meditation on quantum mechanics, physics, and the dualities of the universe.

The seven wooden circles symbolize the seven layers of dimensions, hanging vertically to evoke the alignment of cosmic structures and the interdependence of all things, much like the quantum entanglement that binds particles across vast distances.

The yin yang with human hearts cut out embodies duality—the coexistence of opposites, such as light and shadow, love and loss—mirroring the wave-particle duality inherent in quantum physics. The hearts represent human emotion and interconnectedness, suggesting that even in the seemingly mechanical nature of physics, there exists an underlying current of love and energy that ties everything together.

The moon phases, intricately painted with depictions of the universe and adorned with golden hues, signify the passage of time and cycles, reflecting the rhythmic patterns found both in nature and quantum phenomena. The mushrooms painted on two of the phases are a nod to organic growth and complexity.

The use of LED lights breathes life into the work, symbolizing the energy that flows through all matter. Just as light behaves as both a particle and a wave, the illuminated aspects of the piece highlight the paradoxical nature of existence, where boundaries blur and the fabric of reality is constantly shifting.

Quantum Study invites viewers to contemplate the mysteries of the cosmos, the mechanics that govern it, and the unseen forces that bind us all.

- Darlene McClinton - ***Quantum Study,*** Mixed media and led lights

These digital works are part of a larger body of work titled “BIOINFOMETRICS.” It explores the connection between human sensory perception and quantum computing and delves into the enigmatic nature of consciousness and the parallels between channels of human perception and the probabilistic, interconnected world of quantum mechanics. These works visualize neural networks as metaphors for quantum systems, where sensory impressions exist in superposition, influencing each other in unexpected ways. Science will use quantum algorithms to generate intelligences that mimic the fluidity and unpredictability of human perception. Archiving moments that shift and morph in response to viewer gaze or biometric data. These artworks aim to bridge the gap between the subjective and objective, inviting viewers to contemplate the profound connection between the human experience and the fundamental laws of the universe.

- Roymieco Carter - ***Evolve*** (pieces from a larger series of works) Archival digital print. ***Sight*** (pieces from a larger series of works) Archival digital print. (For Roymieco Carter-3.jpg and Roymieco Carter-4.jpg)

These works reflect drawing and mark-making that can be seen as a connection to quantum physics. Both disciplines grapple with the nature of reality, albeit in different ways. Quantum physics delves into the subatomic world, where particles exist in multiple states simultaneously (superposition) and can influence each other instantaneously across vast distances (entanglement). Similarly, this process of drawing involves a dynamic interplay between intention and emergence. Each mark made on the paper carries inherent uncertainty, influenced by the artist's hand, the medium, and the unpredictable interactions between them. This process mirrors the probabilistic nature of quantum events, where outcomes are not always deterministic. Just as quantum particles can exist in multiple states, a drawing can have the same behavior, eliciting diverse responses and associations for the artist.

- Roymieco Carter - ***Object 01,*** Found papers and acrylic. ***Object 02,*** Found papers and acrylic. (For Roymieco Carter-1.jpg and Roymieco Carter-2.jpg)

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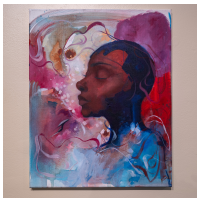
- Roymieco Carter - ***Melanie Marks 01,*** (pieces from a larger series of works) Charcoal and watercolor paper. ***Melanie Marks 02,*** (pieces from a larger series of works) Charcoal and watercolor paper. (For Roymieco Carter-5.jpg and Roymieco Carter-6.jpg)



This vibrant work complements the black and white piece ”Interconnected”, offering a creative interpretation of the quantum revolution and its potential to reshape our understanding of reality. The dreamlike imagery suggests a journey into new frontiers, where the boundaries of perception are altered by quantum exploration. The swirling lines and similar colors evoke quantum entanglement, where particles in separate dimensions remain interconnected. This piece also reflects the observer effect, illustrating how observation can change the state of a quantum system. The two women symbolize different dimensions, yet they remain entangled, mirroring the complex interactions in the quantum realm.

Gabrielle Edwards - ***Entangled Dreams***, Oil paint, acrylic paint, inks, colored pencil (Gabrielle Edwards-1.jpg)

This piece visualizes the concept of Wave-Particle Duality, where particles can exhibit both wave-like and particle-like behaviors simultaneously. The flowing black lines represent the wave aspect, while the particles within these waves highlight their coexistence. Spray paint and spray bottles were used to create the particles, emphasizing how both liquid and aerosol states can embody this duality. The varying triangles represent particles interacting within this quantum space. The circuit-like patterns reference the role of computers in advancing the quantum revolution, as technology will play a pivotal role in exploring these ideas further.

Gabrielle Edwards - ***Interwoven Frequencies*** Charcoal Powder, Spray paint, white charcoal pencil(Gabrielle Edwards-2.jpg)

This piece represents two interconnected dimensions through the concept of quantum entanglement. The triangles symbolize particles that, when entangled, affect each other regardless of distance. The yellow triangles are connected by a delicate white line, while the pink triangles show the same process in motion. The woman in the center, with her eyes closed in a peaceful, dreamlike state, is surrounded by abstract forms that symbolize the complexity of quantum phenomena. Acting in duality with the colored dreamscape “Entangled Dreams“, this work highlights the intertwined nature of quantum states and the mysterious ways in which particles remain connected across vast distances.

- Gabrielle Edwards - ***Interconnected,*** Charcoal Powder, acrylic paint. (Gabrielle Edwards-3.jpg)

Kendrick “Rusty” Shackleford - ***Untitled/Charcoal Dust study Digital Monotype,*** Acrylic paint, charcoal dust on found image