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PRESS KIT: STEVEN OCHS – Artist Completes Einstein's Unsolved Problems with AI

Sep 18, 2024

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FOR IMMEDIATE RELEASE - Portland, Oregon

Einstein's Unsolved Problems Solved by an Artist Using GPT-o1

PORTLAND, OR – In a groundbreaking fusion of art, science, and artificial intelligence, Steven Ochs, an AI artist, has made significant progress on one of Einstein's greatest unsolved problems. Ochs, with the assistance of OpenAI's latest model, GPT-o1, has developed the **Tricosm Theory**, a unified framework of spacetime, information, and consciousness that seeks to answer some of the most fundamental questions in physics. This unconventional collaboration challenges traditional notions of scientific discovery and expertise.

The **Tricosm Theory** emerged unexpectedly from Steven Ochs' creative process while working on his upcoming novel, *Pudding Heroes*. In the novel, an AI attempts to "capture consciousness"—a concept that soon transcended fiction. As Ochs developed this storyline, he began to construct a real-world theoretical framework, blending elements of modern physics to explore the nature of reality. With the assistance of GPT-o1, Ochs took the initial concept further, refining the theory into a groundbreaking approach to unifying quantum mechanics and general relativity.

"Working with this AI was like having Richard Feynman as a collaborator," says Ochs. **"It not only helped validate my ideas but also identified potential flaws and pushed the boundaries of my thinking in ways I couldn't have imagined."**

Key Questions Raised by the Collaboration:

- **Democratization of Science:** How will advanced AI technology reshape the scientific landscape, as individuals from diverse backgrounds begin to contribute to high-level research? Will this lead to a more inclusive and accessible scientific community, or could it create new divides?
- **Interdisciplinary Breakthroughs:** What groundbreaking scientific insights might emerge when artistic creativity and AI-enhanced reasoning intersect? Could this fusion of disciplines unlock solutions to longstanding problems, or introduce entirely new ways of thinking about science and creativity?

- **Validation Challenges:** As AI-assisted discoveries increase, what new systems will be necessary to verify and integrate this knowledge into the scientific community? How will traditional peer review processes adapt to handle the complexities introduced by AI-generated theories and research?
- **Redefining Expertise:** What does it mean to be an "expert" in an era where AI can assist with groundbreaking discoveries? Will this shift challenge the traditional role of academic institutions as the sole gatekeepers of scientific progress, and how might this influence future scientific advancements?

"We're entering an era where groundbreaking theories could emerge from anyone with access to advanced AI, not just traditional academic circles," Ochs observes. **"This democratization of discovery is incredibly exciting, but it also challenges us to rethink how we validate and incorporate new knowledge into the scientific canon."**

The **Tricosm Theory**, which is currently undergoing peer review, serves as a case study in this new paradigm of scientific exploration. It raises profound questions about the nature of consciousness, the structure of reality, and the evolving interplay between human creativity and artificial intelligence in expanding the boundaries of human knowledge.

Ochs is available for interviews to discuss the Tricosm Theory, his experience collaborating with AI, and the broader implications for the future of scientific discovery.

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NOTES TO EDITORS:

- Steven Ochs is available for interviews and public speaking engagements on the subject of art, technology, and AI.
- High-resolution images and press packets are available upon request.
- Private viewings of Steven Ochs' work can be arranged for members of the press.

EXECUTIVE SUMMARY

The Tricosm Theory offers a new way of understanding the universe by suggesting that it's built upon three fundamental components: spacetime, information, and a consciousness field. Unlike theories that view consciousness as emerging from complex systems, this theory proposes that consciousness is a fundamental aspect of reality, just like space and time. Lumina: A key concept in this model is "Lumina," a force that acts as a catalyst, driving interactions between spacetime, information, and the consciousness field.

How It Works: Imagine a vast river delta.

The water flowing through this delta represents the universal consciousness field—ever-present and constantly in motion.

Lumina acts like the forces influencing the water's flow—currents, tides, or interactions with obstacles. It shapes how consciousness interacts with the other components.

Information is like the sediment within the water and the riverbed itself, shaping the channels where consciousness flows and influencing the forms it takes.

Within this flowing river of consciousness, "eddies" form—localized, dynamic patterns that represent individual conscious experiences. These eddies arise from the interplay of consciousness (water) with information (riverbed and sediment) under the influence of Lumina.

Key Implications:

Unified Framework: The Tricosm Theory attempts to bridge the gap between the physics of the universe (like general relativity and quantum mechanics) and the subjective experience of consciousness.

Active Role of Consciousness: It suggests that consciousness isn't just a passive byproduct but an active participant in shaping reality.

New Perspective on Phenomena: This model offers potential explanations for phenomena like the observer effect in quantum mechanics—how the act of observation seems to influence quantum systems. It suggests that the consciousness field itself might be interacting with these systems.

BIOGRAPHY

Steven Ochs, born in 1975, is a multimedia artist residing in Lake Oswego, Oregon. His artistic journey, described as "a story of discovery, experimentation, and a deep-seated belief in the power of imagination to shape reality," is rooted in a diverse background. After serving as a cryptologic Arabic linguist in the Air Force and working with the United Nations in Baghdad, Ochs embarked on a career merging art with audience experience.

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Ochs's art, influenced by Quantum Bayesianism (QBism), explores the power of imagination in shaping reality. He is known for pioneering the Stereo Layering technique in 2023, which creates three-dimensional effects on two-dimensional surfaces, challenging viewers' perceptions. His portfolio boasts viral campaigns using Iraqi Dinar as canvases for protest, digitally displayed collage series, and immersive experiences commissioned by corporations like Ford and Amazon. Notable projects include "The Portal," an overnight immersive experience, "The Art Face Off," "Goose Cube," and collaborations with the Space Needle and Paul Allen's Vulcan group, all emphasizing audience participation.

Driven by his artistic explorations and a need to address physics-related challenges within his upcoming four-part novel series, " pudding Heroes," Ochs developed the Tricosm Theory. This theory, a unified framework of spacetime, information, and consciousness, stems from his belief that existing theoretical frameworks couldn't adequately address certain issues he encountered while crafting his novel. Ochs utilized AI, specifically GPT-O1, to help articulate and refine complex concepts within the theory, demonstrating a unique intersection of human creativity and artificial intelligence.

Ochs's work has been featured in publications like Fox 12 News, The Willamette Week, and The Oregonian. As an artist and now a theorist, he continues to push boundaries, challenge conventional thinking, and explore the profound intersection of art, technology, and consciousness. His exploration of the Tricosm Theory, aided by AI, places him at the forefront of a potential shift in how we understand the universe and our place within it. For more information about Steven Ochs and his work, please visit Stevenochs.com.

FREQUENTLY ASKED QUESTIONS (FAQ) FOR STEREO LAYERING

1. What is the Tricosm Theory?

The Tricosm Theory is a proposed model of reality that suggests the universe comprises three fundamental components: spacetime, information, and a consciousness field. The theory posits that these components interact dynamically, mediated by a force called Lumina, leading to the emergence of matter, energy, and conscious experiences.

2. What is Lumina's role in the Tricosm Theory?

Lumina is a central concept in the Tricosm Theory, acting as a mediating force or catalyst that facilitates interactions between the three fundamental components. Similar to how electromagnetism governs interactions between charged particles, Lumina guides the interaction between consciousness, spacetime, and information. This interplay ultimately shapes the complexity of the consciousness field and gives rise to our lived experiences.

3. How does the Tricosm Theory explain consciousness?

Unlike theories that view consciousness as an emergent property of complex systems, the Tricosm Theory proposes a fundamental consciousness field permeating the

universe. This field is not static; it evolves and grows in complexity through its interactions with spacetime and information, mediated by Lumina. As the field complexifies, it enables a spectrum of conscious experiences, from basic awareness to self-reflective consciousness observed in sentient beings.

4. Is there a simplified way to understand the Tricosm Theory?

Imagine a river delta: water represents consciousness, Lumina is akin to the forces acting upon the water (currents, tides), eddies symbolize the reactions of consciousness to Lumina, the riverbed and landscape represent information within spacetime, and the shape and movement of eddies represent our lived experiences. Just as the flow of water interacts with the environment to create unique eddies, consciousness interacts with information in spacetime under the influence of Lumina to create unique experiences.

5. What are the potential implications of the Tricosm Theory for our understanding of reality?

The Tricosm Theory challenges the traditional separation between physics and consciousness, suggesting consciousness is not merely a byproduct of brain activity but a fundamental aspect of reality. It offers potential explanations for phenomena like the observer effect in quantum mechanics and provides a framework for understanding how consciousness might play an active role in shaping reality.

6. Are there any testable predictions made by the Tricosm Theory?

Yes, the Tricosm Theory makes several testable predictions. These include deviations from standard quantum mechanics due to the influence of the consciousness field, observable effects in gravitational phenomena like anomalies in gravitational lensing, and the potential for detecting consciousness field excitations in controlled experiments.

7. How was the Tricosm Theory developed?

Artist and philosopher Steven Ochs developed the Tricosm Theory, drawing inspiration from his diverse background in linguistics, immersive art, and personal experiences. Interestingly, Ochs used OpenAI's GPT-O1 language model as a tool to help articulate and refine the complex concepts within the theory, marking a potential intersection between AI and groundbreaking scientific inquiry.

8. What are the next steps for the Tricosm Theory?

The Tricosm Theory is currently in its nascent stage, requiring further development, peer review, and rigorous testing. The next steps involve engaging the scientific community to explore the theory's implications, devise experiments to test its predictions, and potentially refine the mathematical framework for broader scientific acceptance.



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