

## Clarifying The Interface Theory of Perception Using The Biological Framework

### *Consciousness in a Biological Framework for a Mathematical Universe: A Brief Overview*

In his dissertation, *The Biological Framework for a Mathematical Universe*, Ronald Williams provides evidence that the patterns and structures inherent in biological systems mirror the underlying mathematical principles of the cosmos. Thus the creation and evolution of life and consciousness is a direct consequence of the evolution of the universe's rudimentary biologically-patterned processes. Life and consciousness evolved in tandem from its rudimentary state in cells to its complex state in humans due to evolving complexities in their rudimentary biologically-patterned environment which forced organisms to recognize and organize themselves relative to patterns necessary for survival. As the rudimentary biologically-patterned environment evolved in complexity, so too did the organism and its consciousness evolve in complexity—forced to evolve with its environment's tightly woven patterns and forces. Those organisms that survived, were *conscious* for immediate survival patterns. Those that died were *unconscious* of the patterns necessary to live and evolve. Thus, those that died from the inability to recognize and organize themselves relative to the patterns necessary for life experienced a "miscarriage" of their evolutionary progression, meanwhile those that survived are "birthed" into the chain of evolutionary development.

Over time, this process kept organisms in a constant evolving state of *conscious survival*, which developed the physical and conscious faculties of organisms into "pattern recognition engines," necessary for recognizing patterns for immediate survival (life). This engine developed to a point where it recognized the patterns necessary to free itself from its environment's immediate survival constraints—gaining *conscious sovereignty* and the ability to freely explore their environment and to organize themselves accordingly to patterns they recognize and imagine on their own accord—thus giving rise to *subjectivity*.

Still unaware of the patterns of biological correspondence that exists throughout reality, as they have not yet explored the patterns within their body and the patterns of their environment to recognize this correspondence exists, humanity begins to build a superficial cognitive framework based on the patterns they do recognize and imagine to be true—some of which overlaps principles in biological systems, reinforcing their "valid" understanding of reality.

However, as they evolve their society, it becomes more complex and the patterns necessary to guide them require more precise direction (truth). As they continue to build this superficial cognitive framework to the patterns they imagine, they become out of harmony with those *healthy* biological patterns which establish and sustain life—Like the cellular society of the fetus trying to form into a baby without the guidance of DNA, human society builds a society without the correct blueprint, resulting in many of the socioeconomic problems they experience, and risking the miscarriage of their society. Humanity's misalignment with the biological patterns necessary to establish and sustain life consequently produces many of the socioeconomic problems they experience (and the subjectivity naturally created through conscious sovereignty) prevents them from unifying towards a common cause/goals. \*\*

Ultimately, the theory asserts that the purpose of conscious sovereignty is a test of Life; It is a test to see if the organism, Man, and its society can come to recognize the patterns which reveal this biological correspondence that exists amongst everything in reality, *then* abide by it. If Humanity abides by it, they remain **conscious** and are deemed worthy to continue living. If they do not abide by it—in other words if they do not organize themselves to these inherent biological patterns necessary for life, they are deemed **unconscious** and will continue carrying-on their *unconscious behaviors* that will ultimately lead to pain, suffering, and the miscarriage of their society. Then, the entire process starts over again.

Thus, the moral of the story is that humanity must pivot its current understanding and behaviors to align itself with biological principles—similar to how human technologies have begun pivoting to align with principles of biological systems in the field of *biomimicry*. Human society must align itself with the patterns pertaining to the *Physics of Life* in order to continue living, just as an aircraft must align itself with the patterns pertaining to the *Physics of Flight* in order to fly. If not, Life will come crashing down.

## *Interface Theory of Perception (Donald Hoffman)*

Donald Hoffman's Interface Theory of Perception posits that our perceptual systems have evolved not to present a true depiction of reality, but to offer a user interface that aids in survival and reproduction. According to Hoffman, what we perceive as reality is more like a desktop interface with icons representing complex underlying processes, rather than a direct window into the true nature of the world. Here are the key points of Hoffman's theory and how *\*The Biological Framework\** clarifies them:

**1. Perception as an Interface:** Just as a computer interface simplifies complex data into easy-to-use icons, our sensory perceptions simplify and present a user-friendly version of the reality that helps us survive and reproduce. The true nature of reality is far more complex and potentially inaccessible.

*\*The Biological Framework for a Mathematical Universe agrees that the organism simplifies complex data into "easy-to-use icons" necessary to survive and reproduce, and; that the universe is complex, however the true nature of reality is indeed accessible through its correspondences to patterns in biological systems.\**

**2. Fitness Beats Truth:** Evolution favors perceptions that enhance fitness, meaning those that improve an organism's chances of survival and reproduction. This does not necessarily align with perceiving the true nature of reality. Thus, the perceptions we have evolved to experience are those that are useful, not those that are true.

*\*Fitness (relative to life and biology's patterns) = Truth in a universe that is biological in nature. The development of *conscious sovereignty* in humans freed humanity from the *survival-fitness framework* based around patterns of survival in a biologically-patterned environment. Conscious sovereignty gave birth to *subjectivity* and allowed humans to begin building a superficial cognitive framework ["making its own desktop icons"] based on patterns they could freely imagine/create—building a new fitness framework around money, power, sports, and everything else, unaware of the underlying biological framework to reality/the universe; Unaware that True-Fitness *and* Truth (objective reality) are in biology's and Life's patterns because our reality/universe is built upon Its principles and patterns. Examples of how the universe's inherent biological truth can be revealed in a thing can be observed in the field of biomimicry. Also in how patterns of the circulatory system and beating heart emerge in the ocean's arctic currents and melting and freezing of Antarctica, or; how the order and properties of cellular society emerge in the order and properties of human society.\**

**3. Simplification:** The brain simplifies the vast amounts of information it receives into something manageable. This means what we see, hear, touch, and otherwise sense is a drastically simplified version of the actual complexities of the universe.

*\*The Biological Framework for a Mathematical Universe agrees with this statement. However, the actual complexities of the universe are biological in nature. Thus, in a biologically-pattern environment which encompasses an organism's reality, the brain simplifies the vast amounts of information it receives into something manageable. Prior to the organism's *conscious sovereignty*, the information it received was used for navigating the immediate survival patterns necessary for the life of the organism. However, after conscious sovereignty emerged, bringing with it the phenomenon of *subjectivity*, the vast amounts of information it received was used to build *superficial cognitive frameworks* on top of this biological framework of the universe, unaware that the drastically simplified versions of their imagined patterns actually contained biological patterns underneath.*

*Examples of how the universe's inherent biological truth can be revealed in a thing can be observed in the field of **biomimicry**. Also in how patterns of the circulatory system and beating heart emerge in the ocean's arctic currents and melting and freezing of Antarctica, or; how music produced by instruments from the input of fingers are fundamentally in accordance with the biological patterns of proteins produced by ribosomes from the input of RNA, or; How a coffee cup shares the same functional biological pattern as a red blood cell, in content distribution. #BiologicalObjectivity\**

**4. Reality vs. Perception:** The objective reality is not what we perceive. Our sensory systems and cognitive processes construct a version of reality that is practical for our survival, which can be quite different from the true nature of the world.

\*The Biological Framework for a Mathematical Universe agrees. However, through our understanding of the patterns of biological systems which comprise the physiology of our own bodies and all living organisms can be used as a guide to revealing this objective reality around us through understanding a target domains correspondence to biology's principles/systems/functional patterns. Revealing this objective reality can allow humanity to recognize/vet/judge their own behaviors and the behaviors of their society (objectively) then adjust those behaviors to move forward/survive in harmony with those patterns in biology that correspond to the order and principles which establish and sustain the life and potential of an individual and its society.\* Such exemplary order and principles can be observed in the order and principles surrounding the most successful societies in the history of Life and the Universe...cellular societies.\* #biomimicry

**5. Mathematical and Computational Models:** Hoffman and his colleagues use mathematical and computational models to demonstrate that perceptions shaped by natural selection are optimized for survival rather than for accuracy. These models show that organisms that perceive reality more like an interface tend to have higher fitness.

\*The Biological Framework for a Mathematical Universe asserts that conscious faculties (mind and body) are developed/optimized for the *accuracy* of survival. Their accuracy for survival reveals their *consciousness* for survival. Their death reveal their *unconsciousness* for survival. This process surrounding the *accuracy for survival* also developed reasoning and logic as an externality—thereby allowing for reason/logic to exist once conscious sovereignty was achieved.\*

\*In summary, while indeed we do interpret reality from a superficial perspective as Hoffman suggests, our cognitive abilities are enhanced enough to recognize the true nature of reality—patterns of correspondences between biological systems which reveal the true nature of the world/universe/reality and thus highlight our evolved perceptual systems. It will be these highly evolved perceptual systems which can enable us to recognize these patterns and organize ourselves to them in order to best survive.