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Causality and Subjectivity in the Religious Quest

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ABSTRACT  The dynamics of seeking causation and the dynamics of subjectivity are first presented and are then brought together in a consideration of the 3 core components of the religious quest: the search for and experience of ultimate explanations, the interiority of religious experience ("spirituality"), and the empathic experience of religious fellowship.

Thomas Berry proposes that the universe functions on three principles: Differentiation, Subjectivity, and Communion (Berry 1988). Elsewhere I suggest (Goodenough 2001) that these three categories can be mapped as well onto the core components of a religious orientation, with differentiation translated as the quest to develop an orientation with respect to Ultimacy, subjectivity reflected in our spiritual quest or Interiority, and communion reflected in our search for Fellowship with one another and with the Earth and all its creatures.

In this essay I develop these relationships. I first describe two distinctive facets of the human psyche, the search for causation and the subjectivity of experience, and I then consider how these operate in our religious quest to apprehend Ultimacy, deepen Interiority, and experience Fellowship (the substrate for morality).

The Components of Causality

All animals seek causes: they respond to sensory inputs by identifying the eliciting stimuli (potential prey, mate, food). But humans possess an additional capacity: they can imagine/invent/construct causes in their minds.

Psychologists speak of this operation in terms of the “causal operator,” the brain function that takes in a stimulus, responds with a cause, AND -- and here’s where we’re different -- imagines a possible cause if no coherent cause can be identified. (I use “imagine” here by choice to remind us that such cause-construction is done in scenarios, in narrative, in image.) For early humans with
limited understandings of Nature, the travails and the joys of natural existence were attributed to the causation of all sorts of wonderful gods and ancestor-gods. In the Abrahamic traditions, the causation factor became more unitary, powerful, and abstract, while in the Eastern meditative traditions a central tenet was to let go of the angst of seeking causation, finding religious experience instead in accepting and becoming an unquestioning part of the universe.

Psychologists also tell us of the robust human tendency to pair experience with some causative agent. Thus when we think of Uncle Fred and he calls minutes later, we wonder yet again about the possibility that, just maybe, psychic forces can cause subsequent events. We are much slower to recall the many times we thought of Uncle Fred and he didn’t call, or the times he called when we weren’t thinking about him. We are fascinated by apparent causative pairings, and they generate our superstitions (wearing a lucky hat when we play golf) and fuel our biases. This same dynamic, I would argue, convinces us that our prayers are (sometimes) answered and our rain dances (sometimes) rewarded, where the “sometimes” gets forgotten as we recall the (story of) the year that a particularly powerful rain dance brought deluges of rain in a particularly dry season.

These two kinds of causal systems -- the search for direct cause and for causal pairings -- come together in interesting ways. When I do a rain dance and it doesn’t rain, what then? What’s the cause? Well, one possibility is that the whole Rain God story is untrue. A second is that I and my villagers didn’t dance powerfully enough, or are being punished for transgressions. We opt for the second kind of possibility, time and time again, because it offers an explanation, imparts causality, satisfies the causal operator in ways not sustained by the “there’s no Rain God” explanation (which deprives us of causality and instead elicits existential anxiety).

It is our ability to invent causes that allows us to be both scientists and philosophers. A bold scientific hypothesis is no more than a stab at causation, as is a novel philosophical treatise. But scientists throw in the extra insistence that the cause-postulate must suggest experiments that test its validity (generating the spectacular success of empirical science), and philosophers insist that the cause-postulate must possess coherence, must occupy a niche in the web of cause-postulates that form the overarching system. Neither science nor philosophy asks that we believe in a postulate. Rather, we are asked to evaluate its consequences, its manifestations, and its germinativity.

The search for causation is, of course, at the core of our theological endeavor as well, where belief in the outcome is a central component of the process. Whereas the scientist and the philosopher make every effort to purge their search for cause of any vestige of subjectivity (success here being variable), the search for a satisfactory account of Ultimacy comes to roost in the subjective. Therefore, I next consider the dynamics of subjectivity.
The Components of Subjectivity

Antonio Damasio (Damasio 1999) presents a brilliant in-depth version of the concepts I will traverse here (using my own language and offering my own spin), and should be considered required reading by anyone interested in the human being. I will first outline my understanding of temperament, then of sentience, and then the co-participation of the two in the generation of subjectivity.

Temperament

Anyone who has reared children and/or has had siblings can testify that each child manifests, early on, a temperament, expressed along numerous axes -- serene/restive, shy/outgoing, focused/daydreamy, optimistic/pessimistic, somber/jovial, daring/cautious -- that is retained throughout a lifetime (Kagan 1984): “Joey has always been that way.” Temperament, as I understand it, is a description of a person’s basic emotional configuration -- the myriad hormones and neurotransmitters, their receptors and re-uptake systems, and the neuronal maps and connections that govern our moods and motivations.

Studies of identical twins reared apart document that temperament is highly heritable, and this is what we would expect of a system of this kind. To say that our temperaments derive from our genetic endowment is not to suggest that there is a “gene for,” say, conviviality: numerous gene products collaborate in numerous developmental contexts to produce the systems that generate temperament. Moreover, since we each have different sets of genes (unless we are identical twins), we expect (and find) each system, and hence each temperament, to be different, displaying a distinctive panoply of neurotransmitter levels, synaptic configurations, thresholds of reactivity, and so on. To the extent that there is such a thing as human nature it is robustly rooted in temperament, but there are numerous kinds of temperaments -- numerous weightings of the various emotional axes -- and hence numerous kinds of human natures.

Primatologist Frans de Waal was recently asked to describe the ways that chimps and bonobos are different from humans, and he responded that there are obvious cognitive differences, but then he paused and remarked thoughtfully: “But you know, in terms of their emotional makeup, once you’ve spent a lot of time with these animals you come to understand that they’re basically the same as we are.” By this he meant, of course, that they display the same range of temperaments as we do. Primatologist Barbara Smuts recalls Fifi as being confident and calm, Patty as being insecure and excitable, Figan as being friendly and extroverted, and Goblin as being aggressive and unpredictable. Our temperaments are a robust, if often difficult and frustrating, legacy from our evolutionary history.
Sentience

If we use the term awareness to describe the ubiquitous ability of organisms to scope out the salient features of their context that are important for survival and reproduction, then we can use the term sentience to describe that mode of awareness found in animals, one that utilizes neurons to negotiate perception. Because neurons can modulate the activity of one another, sentience gives rise to emergent operations, permitting such combinatorial processes as learning and memory. As mammalian and eventually primate brains moved through the evolutionary stream, the ontogeny of sentience came to acquire a mind of its own, so to speak, with the crafting of the sentient brain being increasingly open to the effects of both serendipity and external input from the senses (Deacon 1997).

And then, the human. Terrence Deacon, tracking the evolution of the brain (Deacon 1997), makes the haunting statement that “biologically we are just another ape. Mentally we are a new phylum of organisms.” Our mental trick, of course, is our ability to form symbolic representations, as made manifest in our generation and comprehension of language, a trait that has come to dominate human sentence. Most everything else that we uniquely do -- culture, art, science, philosophy, technology -- flows from our capacity to symbolize.

Included in our sentience is our causal operator, which takes things in and ascertains, or imagines, their causal antecedent. The imagining operation represents a complex collaboration between sentience and temperament as they construct a scenario that is both maximally plausible and maximally appealing.

Subjectivity

Subjectivity has many synonyms -- consciousness, core consciousness, self-awareness -- and many have offered definitions, as this from Damasio (Damasio 1999):

In a curious way, consciousness begins as the feeling of what happens when we see or hear or touch....Placed in the appropriate context, the feeling marks those images as ours and allows us to say, in the proper sense of the terms, that we see or hear or touch. Organisms unequipped to generate core consciousness are condemned to making images of sight or sound or touch, there and then, but cannot come to know that they did. From its most humble beginnings, consciousness is knowledge, knowledge consciousness, no less interconnected than truth and beauty were to Keats.

It is through feelings, which are inwardly directed and private, that emotions, which are outwardly directed and public, begin their impact on
the mind; but the full and lasting impact of feelings requires consciousness, because only along with the advent of a sense of self do feelings become known to the individual having them.

Subjectivity, I suggest, represents a synthesis of our sentience and our temperament. As our sentience processes input and relates it synaptically to the typologies and belief systems that constitute our cognitive context, the input passes as well through our temperamental filter before being experienced as a feeling by the subjective self. Our temperaments, or, more precisely, the neural and hormonal mechanisms that generate our temperaments, put a spin on each input: we like it, it makes us nervous, it outrages us, it makes us laugh. Given that our temperaments, albeit largely inherited, are nonetheless unique, and given that our sentience, being largely acquired, is by definition unique, it follows that we each have unique subjectivities. We each experience experience in our own way, as a fusion of our cognitive and emotional systems. I am my subjective self. You are your subjective self. What is totally remarkable is that we inhabit a planet where 6 billion subjective selves are wandering about, taking themselves in.

We can also recognize that each subjectivity is not necessarily some 50-50 balance of sentience and temperament. “Intelligence,” in all its manifestations (Gardner, 1983), may be another word for a robust sentience (and what that entails in terms of e.g. prefrontal wiring), and for some persons sentience comes to exert the dominant influence on their subjective experience. For others, their subjectivity is much more influenced by their temperaments. Their sentience serves to communicate experience to their temperaments, but otherwise sentience is not as important to their subjectivity as the feelings elicited by emotional response. When these weightings are translated into personalities that we encounter, we may say that one person is “cerebral” or “analytical” and the other “emotional” or “out there”.

Ultimacy

So how do our causal operators and our subjectivities collaborate in the search for Ultimate causality, our search for answers to such questions as “Why is there anything at all rather than nothing?” or “Is there a God?”

Kenneth Miller, biologist and emerging theologian, gave a paper at a recent conference in which he articulated his concept of God as working through the evolutionary process (Miller, 1999). In the follow-up discussion, someone asked why it was that he invoked God in his system. “Ah,” Ken responded with the dispatch of someone who had clearly been asked this question before, “what I hear in your question is that you yourself don’t need that hypothesis?” The person nodded. Ken nodded in return, and then said quietly, “Well, I do.”
For me, this exchange summarizes much that is important to say about theism vs. non-theism. If we combine our consideration of causality with our consideration of subjectivity, we realize that the causes that we imagine -- in the sense of imaging -- in response to questions of Ultimacy will be fashioned by our subjective selves and, therefore, will be the product of both our sentience and our temperaments. Some persons need the God hypothesis and some do not. Those who need it report that it renders the universe meaningful, and hence their lives meaningful; it allows them to feel at home in their own existence; its absence engenders alienation, a lack of connection, despair. Of those who do not need it, some report that their theological impulses are satisfied by asking questions of Ultimacy rather than by imaging answers. Others report disinterest in the questions. Others register antagonism towards the questions.

To my mind, the existence of this spectrum, from theism to agnosticism to indifference to atheism, is a fascinating manifestation of the rich diversity of human natures. Religiosity is reported to display high heritability in twin studies (Eaves et al. 1990), and although this study is restricted to church attendance and therefore measures only one manifestation of the religious response, it suggests that a theistic orientation is, at least in part, a manifestation of temperament. Again, this is not at all to suggest that there is a "gene for God" (and perhaps a corresponding allele for atheism) or any such nonsense. Rather, the input of Ultimate questions activates our sentient causal operators, and since there are no "real" answers to these questions, the imagined responses are heavily biased in favor of our temperamental preferences.

Ours is a time of particularly heated mud-slinging along these lines, with certain atheists publicly denouncing theists and certain theists publicly denouncing atheists and agnostics moving about with lowered heads lest they be caught in the cross-fire. Theists, moreover, are hardly a homogeneous group; rather, they partition along what I suspect are temperamental lines between those who align fiercely with traditional God-concepts (e.g. the many kinds of fundamentalists) and those whose God-concepts are heavily informed by post-traditional understandings (e.g. the theology of Kenneth Miller).

Perhaps it will be helpful to remind those engaged in such contretemps that our rainbow of human subjectivities generates many other kinds of diversities that we have come to accept and even celebrate: our response to sexual stimuli, to art in its numerous manifestations, to choices of friends and pastimes. If we could come to regard the need/non-need for the God hypothesis as a value-neutral manifestation of our subjectivity, much divisiveness might subside.

The reason there is so much divisiveness, of course, is that this question is not, for many, easily put in the same category as the choice between golf and reading. There is a real sense, for most theists, that God is an objective and not a subjective reality, and a real sense, for most atheists, that such a claim is
incomprehensible since s/he fails to have such subjective, and hence objective, experiences. Perhaps because the stakes seem so high, those at each pole are particularly prone to feel frustrated at the blindness of the other. From my perspective, these polarities are inherently unresolvable because we are inherently incapable of entering into one anothers’ subjectivities and hence are incapable of persuading one another of the veracity of our subjectivities. Therefore, we are best served by celebrating, or at least respecting, theistic diversity, and then moving on to other religious terrains where we can find more common ground.

**Interiority**

Our interior selves grapple with a different set of religious questions from those that beset our search for Ultimacy. Who am I? What is my value? How do I transcend the mundane? And, the big one, how do I reconcile myself with my materiality?

At an early point in my exploration of the religious potential of the Epic of Evolution, I presented some of my ideas to an adult-ed group. During the course of the discussion, one of the women blurted out plaintively, “But I like the old stories better!” Even as I was assuring her that the meaning and import of the old stories need not be compromised by an apprehension of the new ones, I knew that I was encountering something very deep: her fear of materiality. My assurances seemed flimsy in its presence.

We encounter everywhere the manifestations of this fear. “Scientists are saying we are robots.” “The product of selfish genes in an uncaring universe of quantum weirdness.” “Wired for rape and perfidy.” And, again the big one: “Non-existent when our materiality falters and we die.” And we encounter as well the various voices that attempt to deconstruct or deny understandings, and offer misunderstandings, of what scientists are trying to explain about our material nature. Many listen eagerly. There is a great deal of confusion and alienation being generated.

My response here is to suggest that much can be done to turn down the volume of discord by considering the nature of our subjectivity.

Here’s the argument. First, we are material, we do emerge from mechanism, we are primates. Our present-day scientific understandings of molecular genetics and physiology and neurobiology and evolution are foundationally true; those additional discoveries that will be made in the future will build upon and deepen these foundations, but will not overturn them.

Second, as I have detailed earlier, our subjectivity too is material. It can be reduced to the level of neurotransmitters and ion fluxes and synaptic
transmission and action potentials, or it can be integrated such that we speak of
cortical domains or prefrontal waystations, but it is material all the way up and all
the way down.

And now, third, the remarkable rub. Our subjectivity doesn't feel material
at all. It feels "spiritual." In fact, we lack completely the capacity to experience
materiality. Our subjective selves can come to understand that we think with
neurons and that the sun is a mass of thermonuclear reactions hotter and denser
than we can possibly conceive, and we can take this in and hopefully devise
some ethics based on these understandings. But we can't experience being a
neuron -- if indeed there is anything to experience, which I anthropocentrically
doubt -- nor a hydrogen-helium fusion event, so we drop back to the subjective
experience of our (neuronal) thoughts as reality, and we experience the sun
subjectively in terms of its warmth and its beauty while setting.

Therefore, materialism does not, in fact, "spoil" subjectivity. The
subjective self invariably files away, compartmentalizes, reductionist/materialistic
explanations, even as it may have experienced fear while encountering them.
They can be accessed for their interest or for their ability to provide helpful
understanding, but they don't invade subjective experience.

Let me illustrate this with an example. Let's say I have suffered a deep
personal loss, and I am besieged with despondency. My understanding of my
neurobiology provides the comfort of knowing that the "I", my subjective self, is
being bombarded with dolorous neurotransmitters and connecting to all those
other synapses recording my past experiences of despair or loneliness or
rejection. My understanding is a resource; it helps me to assure myself that this
will pass, that there is another side to my blue mood. And then I go ahead and
have the experience. The sorrow invades me just as much as it invades anyone
without "the Knowledge." I am my spiritual self.

Subjectivity is an emergent property, in the same sense that, for example,
motility emerges from the interaction of actin and myosin filaments in a muscle
cell. Something more (motility) arises from nothing but (actin and myosin). But
whereas we can learn a great deal about motility by studying how the actin and
myosin interact, we learn nothing interesting from a description of the
mechanisms that generate our subjectivity: I could stare at a PET scan of my
despondency and ascertain that certain regions of my brain are activated and
others repressed, and I would have no greater insight about my feeling-state.

So our subjectivity, and hence our interiority, is a whole new ballgame, a
whole new category of reality. Truths that describe the material world, those
designated by V.V. Raman (Raman 1999) as "exopotent" truths, may or may not
have subjective valence, may or may not resonate as "endopotent" truths. And
reciprocally, endopotent truths, such as the beauty of a sonata or the savage joy
of human connection when it really works, may or may not map onto an exopotent material reality.

It is important that I not be misunderstood here. I am not saying that I regard our emergent spirituality as something caused by a “supernatural” presence, although many do of course believe this to be the case. I am perfectly comfortable with my interiority being grounded in the biology of my somatic self. Damasio says this for me beautifully (Damasio 1994):

To discover that a particular feeling depends on activity in a number of specific brain systems interacting with a number of body organs does not diminish the status of that feeling as a human phenomenon. Neither anguish nor the elation that love or art can bring about are devalued by understanding some of the myriad biological processes that make them what they are. Precisely the opposite should be true: Our sense of wonder should increase before the intricate mechanisms that make such magic possible.

But here I celebrate the magic. I am the creator, the responder, and the keeper of my endopotent truths, and hence I indeed transcend the mundane with every feeling that feels important or deep. My truths, my in-sights, my sentience/temperament fusions, become revelations, to believe in and live by.

Fellowship

Our religious quest to feel at home in the universe and in our subjective selves will be barren and narcissistic if this alone is our path. The most ascetic Buddhist monk emerges from his temple to encounter and help alleviate human suffering. The most important outcome of a centered interiority is that it can ground and nurture our exteriority, and hence our service.

We inhabit a planet with 6 billion subjective selves wandering about, taking themselves in, and we are inherently incapable of entering into one another’s subjectivities. But this doesn’t mean that we don’t try! We continuously perform the operation of putting ourselves into the minds of others, doing our best to “read” their subjectivities -- as outwardly manifested by their personalities and their “vibes.” That is, once we can put ourselves into our own minds, we can imagine ourselves in another person’s mind, albeit there is never any way to verify that we have in fact been successful at doing so. Michael Tomasello (Tomasello 1999) offers intriguing experimental evidence that this capacity to project oneself into the mind of another is totally absent in nonhuman primates, and argues that it is this attribute that allows humans to acquire and transmit cultural understandings.
To put oneself in someone else’s shoes, then, is an emergent property embedded in the emergence of human subjectivity. I believe that this capacity represents the foundation of our capacity for empathy. And once there is empathy, then there can arise the feeling we call compassion. A version of the Golden Rule -- Do unto others as you would have them do unto you -- is found in most religious traditions. It is as we can imagine being the least of these that we can begin to experience the anguish of deep poverty or deprivation. It is as we are able to identify with the oil-soaked shore bird and the bewildered moose that they come to symbolize our environmental concerns.

If empathy and hence compassion are emergent functions, flowing from the emergent function that we are calling subjectivity, then to my mind they represent our best hope for grounding our morality in the essence of human nature. Where I sharply part company with certain forms of theism is when the claim is made that the only way to have ultimate moral grounding is to have an unjudged judge, an uncreated creator, the alternative being portrayed as morality “up for grabs.” The problem with this proposition, of course, is how one verifies that any particular theistically-perceived morality represents the ur-morality. For me, there is a second robust alternative, which is to fashion a morality based on human nature’s affinity for the Golden Rule.

One of the functions of our art is to articulate the shared human experience. To the extent that we can in fact enter into the subjectivity of another, it is most vibrantly done by means of his/her artistic expression. Our art, and particularly our religious art, lets us know that we are not alone, that there are other humans out there who seem to feel the same way that we do, and have done so for millennia. We experience the feeling of communion.

REFERENCES


FOOTNOTE

1. Raman proposes that exopotent truths furnish us with the capacity to alter, manipulate, formulate in consistent terms, and predict occurrences in the world around. These are recognitions that can be demonstrated on purely rational and empirical grounds. They do not necessarily possess objective validity: many successful (ancient) medical systems and technologies were based on quite mistaken views about the physical world and the human body. Much of scientific knowledge conveys exopotent truths. Endopotent truth contribute, positively or negatively, to our inner experience as human beings. These are profound perceptions, induced by cultural upbringing and/or personal sensitivity to the world around. They are deeply meaningful and spiritually uplifting to individuals. These are the transrational truths which, though they may not be amenable to logic and analysis, do not violently contradict reason either. They cannot always be formulated in incontrovertibly logical modes, and are generally ineffective in altering any aspect of the perceived world.