

## A LANDSCAPE OF CONSCIOUSNESS

Robert Lawrence Kuhn

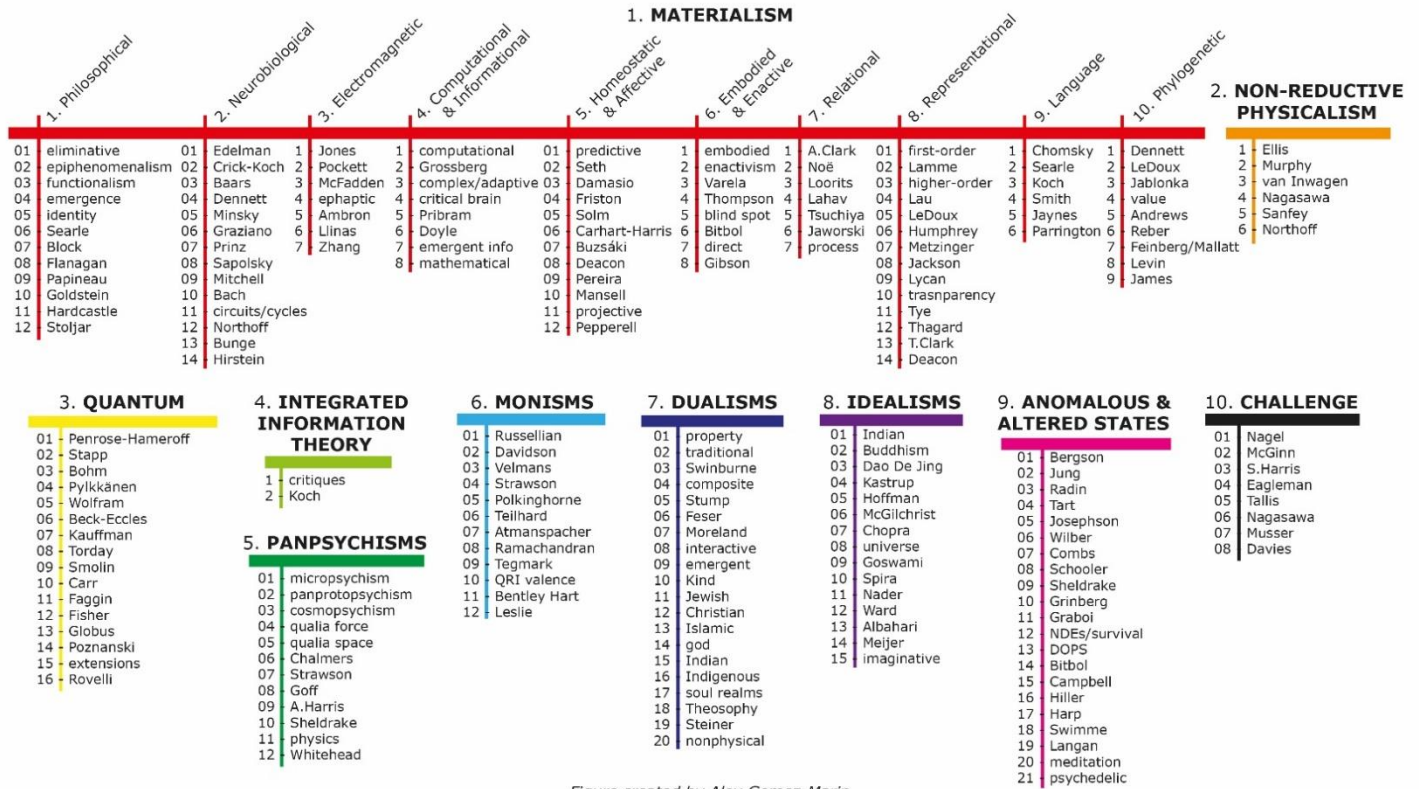


Figure created by Alex Gomez-Marín

Figures 3 (above) & 2 (below). A Landscape of Consciousness (Complete Outline)

Note: References in the text add “8” to the first digit of each theory.

### 1. MATERIALISM THEORIES

#### 1.1 Philosophical Theories

- 1.1.1 Eliminative Materialism / Illusionism
- 1.1.2 Epiphenomenalism
- 1.1.3 Functionalism
- 1.1.4 Emergence
- 1.1.5 Mind-Brain Identity Theory
- 1.1.6 Searle’s Biological Naturalism
- 1.1.7 Block’s Biological Reductionism
- 1.1.8 Flanagan’s Constructive Naturalism
- 1.1.9 Papineau’s Mind-Brain Identity
- 1.1.10 Goldstein’s Mind-Body Problem
- 1.1.11 Hardcastle’s Argument Against Materialism Skeptics
- 1.1.12 Stoljar’s Epistemic View and Non-Standard Physicalism

#### 1.2 Neurobiological Theories

- 1.2.1 Edelman’s Neural Darwinism and Reentrant Neural Circuitry
- 1.2.2 Crick and Koch’s Neural Correlates of Consciousness
- 1.2.3 Baars’s and Dehaene’s Global Workspace Theory
- 1.2.4 Dennett’s Multiple Drafts Model
- 1.2.5 Minsky’s Society of Mind
- 1.2.6 Graziano’s Attention Schema Theory
- 1.2.7 Prinz’s Neurofunctionalism: Attention Engenders Experience
- 1.2.8 Sapolsky’s Hard Incompatibilism
- 1.2.9 Mitchell’s Free Agents
- 1.2.10 Bach’s Cortical Conductor Theory

- 1.2.11 Brain Circuits and Cycles Theories
- 1.2.12 Northoff's Temporo-Spatial Sentience
- 1.2.13 Bunge's Emergent Materialism
- 1.2.14 Hirstein's Mindmelding

### 1.3 *Electromagnetic Field Theories*

- 1.3.1 Jones's Electromagnetic Fields
- 1.3.2 Pockett's Conscious and Non-Conscious Patterns
- 1.3.3 McFadden's Conscious Electromagnetic Information Theory
- 1.3.4 Ephaptic Coupling
- 1.3.5 Ambron's Local Field Potentials and Electromagnetic Waves
- 1.3.6 Llinas's Mindness State of Oscillations
- 1.3.7 Zhang's Long-Distance Light-Speed Telecommunications

### 1.4 *Computational and Informational Theories*

- 1.4.1 Computational Theories
- 1.4.2 Grossberg's Adaptive Resonance Theory
- 1.4.3 Complex Adaptive Systems Models
- 1.4.4 Critical Brain Hypothesis
- 1.4.5 Pribram's Holonomic Brain Theory
- 1.4.6 Doyle's Experience Recorder and Reproducer
- 1.4.7 Informational Realism and Emergent Information Theory
- 1.4.8 Mathematical Theories

### 1.5 *Homeostatic and Affective Theories*

- 1.5.1 Predictive Theories (Top-Down)
- 1.5.2 Seth's "Beast Machine" Theory
- 1.5.3 Damasio's Homeostatic Feelings and Emergence of Consciousness
- 1.5.4 Friston's Free-Energy Principle and Active Inference
- 1.5.5 Solm's Affect as the Hidden Spring of Consciousness
- 1.5.6 Carhart-Harris's Entropic Brain Hypothesis
- 1.5.7 Buzsáki's Neural Syntax and Self-Caused Rhythms
- 1.5.8 Deacon's Self-Organized Constraint and Emergence of Self
- 1.5.9 Pereira's Sentience
- 1.5.10 Mansell's Perceptual Control Theory
- 1.5.11 Projective Consciousness Model
- 1.5.12 Pepperell's Organization of Energy

### 1.6 *Embodied and Enactive Theories*

- 1.6.1 Embodied Cognition
- 1.6.2 Enactivism
- 1.6.3 Varela's Neurophenomenology
- 1.6.4 Thompson's Mind in Life
- 1.6.5 Frank/Gleiser/Thompson's "The Blind Spot"
- 1.6.6 Bitbol's Radical Neurophenomenology
- 1.6.7 Direct Perception Theory
- 1.6.8 Gibson's Ecological Psychology

### 1.7 *Relational Theories*

- 1.7.1 A. Clark's Extended Mind
- 1.7.2 Noë's "Out of Our Heads" Theory
- 1.7.3 Loorits's Structural Realism
- 1.7.4 Lahav's Relativistic Theory
- 1.7.5 Tsuchiya's Relational Approach to Consciousness
- 1.7.6 Jaworski's Hylomorphism
- 1.7.7 Process Theory

## 1.8 *Representational Theories*

- 1.8.1 First-Order Representationalism
- 1.8.2 Lamme's Recurrent Processing Theory
- 1.8.3 Higher-Order Theories
- 1.8.4 Lau's Perceptual Reality Monitoring Theory
- 1.8.5 LeDoux's Higher-Order Theory of Emotional Consciousness
- 1.8.6 Humphrey's Mental Representations and Brain Attractors
- 1.8.7 Metzinger's No-Self Representational Theory of Subjectivity
- 1.8.8 Jackson's Representationalism and the Knowledge Argument
- 1.8.9 Lycan's Homuncular Functionalism
- 1.8.10 Transparency Theory
- 1.8.11 Tye's Contingentism
- 1.8.12 Thagard's Neural Representation, Binding, Coherence, Competition
- 1.8.13 T. Clark's Content Hypothesis
- 1.8.14 Deacon's Symbolic Communication (Human Consciousness)

## 1.9 *Language Relationships*

- 1.9.1 Chomsky's Language and Consciousness
- 1.9.2 Searle's Language and Consciousness
- 1.9.3 Koch's Consciousness does not Depend on Language
- 1.9.4 Smith's Language as Classifier of Consciousness
- 1.9.5 Jaynes's Breakdown of the Bicameral Mind
- 1.9.6 Parrington's Language and Tool-Driven Consciousness

## 1.10 *Phylogenetic Evolution*

- 1.10.1 Dennett's Evolution of Minds
- 1.10.2 LeDoux's Deep Roots of Consciousness
- 1.10.3 Ginsburg and Jablonka's Associative Learning During Evolution
- 1.10.4 Cleeremans and Tallon-Baudry's Functional Value
- 1.10.5 Andrews's Consciousness Without Complex Brains
- 1.10.6 Reber's Cellular Basis of Consciousness
- 1.10.7 Feinberg and Mallatt's Ancient Origins of Consciousness
- 1.10.8 Levin's Technological Approach to Mind Everywhere
- 1.10.9 No Hard Problem in William James's Psychology

## 2. NON-REDUCTIVE PHYSICALISM

- 2.1 Ellis's Strong Emergence and Top-Down Causation
- 2.2 Murphy's Non-Reductive Physicalism
- 2.3 van Inwagen's Christian Materialism and Resurrection of the Dead
- 2.4 Nagasawa's Nontheoretical Physicalism
- 2.5 Sanfey's Abstract Realism
- 2.6 Northoff's Non-Reductive Neurophilosophy

## 3. QUANTUM THEORIES

- 3.1 Penrose-Hameroff's Orchestrated Objective Reduction
- 3.2 Stapp's Collapsing the Wave Function via Asking "Questions"
- 3.3 Bohm's Implicate-Explicate Order
- 3.4 Pylikäinen's Quantum Potential Energy and Active Information
- 3.5 Wolfram's Consciousness in the Ruliad
- 3.6 Beck-Eccles's Quantum Processes in the Synapse
- 3.7 Kauffman's Mind Mediating Possibles to Actuals
- 3.8 Torday's Cellular and Cosmic Consciousness
- 3.9 Smolin's Causal Theory of Views
- 3.10 Carr's Quantum Theory, Psi, Mental Space

- 3.11 Faggin's Quantum Information-based Panpsychism
- 3.12 Fisher's Quantum Cognition
- 3.13 Globus's Quantum Thermofield Brain Dynamics
- 3.14 Poznanski's Dynamic Organicity Theory
- 3.15 Quantum Consciousness Extensions
- 3.16 Rovelli's Relationship Physics

#### 4. INTEGRATED INFORMATION THEORY

- 4.1 Critiques of Integrated Information Theory
- 4.2 Koch Compares Integrated Information Theory with Panpsychism

#### 5. PANPSYCHISMS

- 5.1 Micropsychism
- 5.2 Panprotopsychism
- 5.3 Cosmopsychism
- 5.4 Qualia Force
- 5.5 Qualia Space
- 5.6 Chalmers's Panpsychism
- 5.7 Strawson's Panpsychism
- 5.8 Goff's Panpsychism
- 5.9 A. Harris's Panpsychism as Fundamental Field
- 5.10 Sheldrake's Self-Organizing Systems at all Levels of Complexity
- 5.11 Wallace's Panpsychism Inside Physics
- 5.12 Whitehead's Process Theory

#### 6. MONISMS

- 6.1 Russellian Monism
- 6.2 Davidson's Anomalous Monism
- 6.3 Velmans's Reflexive Monism
- 6.4 Strawson's Realistic Monism and Real Materialism
- 6.5 Polkinghorne's Dual-Aspect Monism
- 6.6 Teilhard de Cardin's Evolving Consciousness
- 6.7 Atmanspacher's Dual-Aspect Monism
- 6.8 Ramachandran's New Physics and Neuroscience
- 6.9 Tegmark's State of Matter
- 6.10 QRI's State-Space, Qualia Formalism, Valence Realism
- 6.11 Bentley Hart's Monism: Consciousness, Being, God
- 6.12 Leslie's Consciousness Inside an Infinite Mind

#### 7. DUALISMS

- 7.1 Property Dualism
- 7.2 Historical and Traditional Dualisms
- 7.3 Swinburne's Substance Dualism
- 7.4 Composite Dualism
- 7.5 Stump's Thomistic Dualism
- 7.6 Feser's Neo-Thomistic, Neo-Aristotelian, Common-Sense Dualism
- 7.7 Moreland's Christian Soul
- 7.8 Interactive Dualism
- 7.9 Emergent Dualism
- 7.10 Kind's Dualism 2.0
- 7.11 Soul in the Hebrew Bible and Jewish Philosophy
- 7.12 Soul in the New Testament and Christian Philosophy
- 7.13 Soul in Islamic Philosophy
- 7.14 God as the Supplier of Souls

- 7.15 Personal and Cosmic Consciousness in Indian Philosophy
- 7.16 Soul in Indigenous Religions
- 7.17 Realms of the Soul
- 7.18 Theosophy's Eclectic Soul and Consciousness
- 7.19 Steiner's Esoteric Soul and Consciousness
- 7.20 Nonphysical Component in the Human Mind

## 8. IDEALISMS

- 8.1 Indian Cosmic Consciousness
- 8.2 Buddhism's Empty, Illusory Phenomenal Consciousness
- 8.3 Dao De Jing's Constant Dao
- 8.4 Kastrup's Analytic Idealism
- 8.5 Hoffman's Conscious Realism: The Case Against Reality
- 8.6 McGilchrist's Relational, Creative-Process Idealism
- 8.7 Chopra's Only the Whole is Conscious
- 8.8 How Consciousness Becomes the Physical Universe
- 8.9 Goswami's Self-Aware Universe
- 8.10 Spira's Non-Duality
- 8.11 Nader's All There Is
- 8.12 Ward's Personal Idealism: Souls as Embodied Agents Created by God
- 8.13 Albahari's Perennial Idealism
- 8.14 Meijer's Universal Knowledge Field
- 8.15 Idealism's Imaginative Expressions

## 9. ANOMALOUS AND ALTERED STATES THEORIES

- 9.1 Bergson's Multiplicity, Duration, Perception, Memory
- 9.2 Jung's Collective Unconscious and Synchronicity
- 9.3 Radin's Challenge to Materialism
- 9.4 Tart's Emergent Interactionism
- 9.5 Josephson's Psi-Informed Models
- 9.6 Wilber's Integral Theory
- 9.7 Combs's Chaotic Attractor and Autopoietic Systems
- 9.8 Schooler's Resonance Theory and Subjective Time
- 9.9 Sheldrake's Morphic Fields
- 9.10 Grinberg's Syntergic/Neuronal Field Theory
- 9.11 Graboi's Three-Aspect Model
- 9.12 Near Death Experiences, Survival, Past Lives
- 9.13 DOPS's Consciousness Research and Theory
- 9.14 Bitbol's Phenomenological Ontology
- 9.15 Campbell's Theory of Everything
- 9.16 Hiller's Eternal Discarnate Consciousness
- 9.17 Harp's Universal or God Consciousness
- 9.18 Swimme's Cosmogenesis
- 9.19 Langan's Cognitive-Theoretic Model of the Universe
- 9.20 Meditation and the Brain
- 9.21 Psychedelic Theories of Consciousness

## 10. CHALLENGE THEORIES

- 10.1 Nagel's Mind and Cosmos
- 10.2 McGinn's Ultimate Mystery (Mysterianism)
- 10.3 S. Harris's Mystery of Consciousness
- 10.4 Eagleman's Possibilianism
- 10.5 Tallis's Anti-Neuromania Skepticism
- 10.6 Nagasawa's Mind-Body in an Infinitely Decomposable Universe
- 10.7 Musser's "Is It Really So Hard?"
- 10.8 Davies's Consciousness in the Cosmos