

Dennis Berkla

Independent Scholar · Chico, California

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RESEARCH INTERESTS

Metaphysics · Philosophy of Mind · Complex Systems · General Philosophy of Science

Recursive becoming, entropic asymmetry, and the ontology of emergence. Pattern theory, cross-scale structural dynamics.

EDUCATION

Master of Arts, Cinematic Communications Theory. California State University, Chico (1980).
Interdisciplinary research program in visual perception, cognition, and communications theory.

PUBLICATIONS

Theoretical Work (2025–2026)

Foundational Sequence

Berkla, D. (2025). *The Temporal Expressions of Being*. Zenodo. doi.org/10.5281/zenodo.15760252

Berkla, D. (2025). *Saturation Thresholds in Recursive Systems*. Zenodo. doi.org/10.5281/zenodo.16046063

Berkla, D. (2025). *Being as Becoming: Scalar Recursion and the Ontology of Emergence*. Zenodo. doi.org/10.5281/zenodo.16895435

Berkla, D. (2025). *The Viscous Field: Entropic Asymmetry as the Ground of Recursive Becoming*. Zenodo. doi.org/10.5281/zenodo.19390356

Universal Recursive Dynamics (Four-Part Series)

Berkla, D. (2025). *Part I: Convergent Empirical Validation*. Zenodo. doi.org/10.5281/zenodo.15778023

Berkla, D. (2025). *Part II: Cosmic Recursion*. Zenodo. doi.org/10.5281/zenodo.15889138

Berkla, D. (2025). *Part III: Mathematical Framework for Multi-Scale Recursive Dynamics*. Zenodo. doi.org/10.5281/zenodo.15939978

Berkla, D. (2025). *Part IV: Consciousness as Recursive Self-Recognition*. Zenodo. doi.org/10.5281/zenodo.15880688

Measurement Layer

Berkla, D. (2025). *A Measurement-Layer Audit Protocol for Directionality-Adjacent Markers*. Zenodo. doi.org/10.5281/zenodo.19341949

Berkla, D. (2026). *Validating the Measurement Layer*. Zenodo. doi.org/10.5281/zenodo.19342356

Historical Research

Berkla, D. (1992). "Were Hernán de Soto's Men the First Spaniards in California?" *The Californians: The Magazine of California History*, Discovery 1992 edition (January/February 1992). Archival resource: desotoresearch.com.

INVITED PRESENTATIONS

Berkla, D. (1978). *Evidence of Early Spanish Presence in Northeastern California*. Association for Northern California Historical Research (ANCHR) annual meeting.

Berkla, D. (1979). *Cinematic Precognitive Communication: Applications for Sub-Threshold Awareness*. 11th Annual Conference on Visual Literacy, International Visual Literacy Association (IVLA), Anaheim, CA.

Theoretical applications of cinematic editing for the measurable demonstration of how visual sensory systems process thematically related imagery at subthreshold intervals — methodologies for embedding semantically coherent elements along geometric or exponential curves operating below the limen of awareness, modulating activation across the visual processing hierarchy from primary visual cortex through association areas to ventral and dorsal streams.

GRANT-FUNDED PRODUCTION

Berkla, D. (1980). *John Bidwell & the Westward Movement*. Five-part educational television series. Grants from California State University, Chico; CSU Chico Graduate School of History; California State Department of Parks & Recreation.

- *John Bidwell: A Pioneer's Reminiscences of Early California*
- *John Bidwell & the Westward Movement*
- *John Bidwell & John Sutter*
- *The Significance of the Bidwells*
- *John Bidwell and the Mechoopda Tribe*

APPLIED RESEARCH IN PATTERN THEORY

Founder and Principal, **DigArts Software** (early 1990s–present as legacy archive; gardenhose.com)

Applied research program translating pattern-recognition theory into structured image-database media — coordinated arrays of botanical and natural-form elements organized by species rules, growth habits, and scale — for use as digital paint media. Over 3,000 image-database “paints” developed across 25+ years, initially licensed to Fractal Design Painter (1995) and subsequently released independently. Legacy collections remain available under Creative Commons Attribution-NonCommercial 4.0.

Selected Media Coverage and Citations

“Digital Hero: Dennis Berkla and the Magic Image Hose Nozzles.” *Mac Art & Design* (Sweden), Issue 26, Spring 1999. ISBN 1103-6869. Feature interview alongside Kai Krause, Eric Wenger, Bruno Delean, Jim Ludtke, and Andrew Bryant.

DigArts image-database media cited or featured in *EFX Art & Design*, *Painter Studio Secrets*, *The KPT Bryce Book*, and NASA educational media (*How Big Is Our Universe*).

Legal Precedent

A federal court of appeals decision arising from infringement litigation involving DigArts’ work was among the earliest to affirm originality and intellectual property rights in database-driven digital media.

COMMUNITY MEMBERSHIPS

Advanced Theoretical Physics and Mathematics (Zenodo curated community)

Physics and Philosophy (Zenodo curated community)