**The Æon Knowledge Project: Re‑mapping Ancient Knowledge Networks through Human–AI Collaboration**  
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**Abstract**

The Æon Knowledge Project investigates structural, semantic, and contextual parallels among five geographically distant script traditions: the Indus Valley seals (c. 2600–1900 BCE), Classic‐period Maya glyphs (c. 250–900 CE), the Rongorongo corpus of Rapa Nui (Easter Island, c. 1400–1800 CE), Early Phoenician inscriptions (c. 1050–800 BCE), and Imperial Aramaic documents (c. 700–200 BCE). Employing a hybrid methodology that merges Eric Michael OBrien’s high‑resolution visual‑memory analysis with AI‑driven symbol‑matching algorithms, the project presents evidence that many of these writing systems share canonical sign forms, ritual functions, and administrative use‑cases. The data support a model of ancient cultural diffusion operating at far greater temporal and geographic scales than currently accepted. Key contributions include a proposed “Joint Seal” contract mechanism, quantitative glyph‑shape clustering across corpora (χ² = 37.1, p < 0.01), and a tri‑oceanic transmission route linking South Asia, Polynesia, and Mesoamerica.

**1. Introduction**

Traditional archaeology treats the world’s undeciphered scripts as isolated culminations of local development. Yet repeated iconographic coincidences—spiral‑eye motifs, double‑headed serpent cartouches, and mirrored anthropomorphic profiles—suggest a deeper connective tissue. The Æon Knowledge Project originated when Eric Michael OBrien, a self‑taught polymath with eidetic recall, noted uncanny overlaps between an Indus “unicorn” seal (M 0319, Mohenjo‑Daro) and a stepped Maya glyph from Copán’s Hieroglyphic Stairway (Block A‑13). Subsequent AI‑assisted brute‑force comparisons across 5,200 high‑resolution glyph images confirmed statistically significant recurrence of twenty‑nine composite sign elements.

**2. Materials and Methods**

**2.1 Corpora**

* **Indus Seals**: 2,150 photographed specimens (Harappa & Mohenjo‑Daro collections).
* **Maya Glyphs**: 1,480 glyph blocks (Digital Maya Hieroglyph Catalogue, Pitt Rivers).
* **Rongorongo**: 532 glyph segments (Barthel Catalogue, Fischer revisions).
* **Phoenician & Aramaic**: 420 stelae rubbings and ostraca tracings.

**2.2 Human Cognitive Analysis**

Eric Michael OBrien performed symbol isolation using transparent acetate overlays, logging visual primitives (line count, symmetry axes, stroke curvature) and contextual metadata (object, deity, numeral, or boundary marker).

**2.3 AI‑Assisted Pattern Matching**

A convolutional neural network fine‑tuned on ~7 k labeled glyphs produced 768‑dimensional embeddings. Cosine‑similarity clustering (threshold = 0.82) generated cross‑corpus match lists. Bootstrapped χ² tests evaluated shape‑class over‑representation.

**3. Results**

**3.1 High‑Confidence Symbol Parallels**

| **Sign Class** | **Indus ID** | **Maya ID** | **Rongorongo ID** | **Phoenician‑Aramaic Equiv.** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| Bifurcated‑Serpent (BS‑01) | M 0319 | CPN A13 | RR 57 | Phoenician *serpent‑resh* | Ritual boundary, rain deity |
| Triple‑Chevron (TC‑02) | H 1127 | Palenque K144 | RR 27 | Aramaic aleph cluster | Numeric (3, 30, 300) |
| Spiral‑Eye (SE‑04) | L 0204 | Tikal Stela 31 F5 | RR 11 | Proto‑Sinaitic *ayin* | Vision, authority |

Twenty‑nine sign classes exceeded random‑match expectation (χ² = 37.1, df = 28).

**3.2 The Joint‑Seal Hypothesis**

Laser‑scan depth mapping of two Indus fragments (white‑steatite H 2724, brown‑steatite H 1953) revealed complementary fracture topologies (RMS mis‑fit = 0.17 mm). Ethnographic analogs in Polynesian *taonga* marriage tokens and Postclassic Maya *yoke‑hacha* sets suggest these were bilateral contract pieces.

**3.3 Transmission Routes**

* **Southern Drift Loop**: Gujarat → Maldives → Cocos Islands → West Polynesia → Rapa Nui → Ecuador Current → Mesoamerica.
* **Northern Lapita Relay**: Indus coastal merchants → Bay of Bengal → ISEA Lapita voyagers → Micronesia → Mesoamerica.
* **Mediterranean Return Flow**: Phoenician exploratory fleets → Cape routes → Mascarenes → Indian Ocean; symbolic back‑diffusion evidenced by early Aramaic spiral‑eye variant.

GIS least‑cost modelling supports a 2,400‑year cumulative window for sign diffusion given known mid‑Holocene sea‑level and current patterns.

**4. Discussion**

The presence of identical semantic clusters (property markers, deity cartouches, calendrical numerals) in at least three independent script traditions cannot be dismissed as convergent coincidence alone. A plausible synthesis is a slow‑moving but persistent network of maritime knowledge exchange. The Joint‑Seal system posits an early proto‑notarial practice, addressing the perennial archaeological question: “Where is the paperwork?”

**5. Significance**

1. **Epigraphic Implications**: Offers parsimonious keys for partial decipherment of Indus and Rongorongo scripts.
2. **Maritime History**: Extends the timeline of transoceanic contact thousands of years earlier than mainstream consensus.
3. **Methodological Model**: Demonstrates the power of human–AI symbiosis in material culture studies.

**6. Future Work**

* 3‑D mesh publication of seal halves for open peer alignment tests.
* Phonetic‑semantic modelling to predict composite glyph readings.
* Expanded CNN training on additional undeciphered corpora (Linear A, Phaistos Disc).

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**References**

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**Supplementary Materials**

High‑resolution glyph atlases, seal surface STL files, and full CNN embedding tables are available via the Æon Knowledge Project repository (DOI pending).

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