

# **Elyon-Sol — Authority-Gated AI Governance (Academic One-Pager)**

## **What Problem This Addresses**

Modern AI systems can produce high-confidence outputs without legitimate authority to do so. Probabilistic alignment and policy filters reduce risk but do not structurally prevent overreach in regulated or high-stakes domains.

## **Core Principle**

Confidence  $\neq$  Authority. If an AI system lacks verified authority for a domain, it must not assert, decide, or advise, regardless of confidence level.

## **Framework Overview**

Elyon-Sol is a governance-first, read-only framework enforcing deterministic blocking when consent or domain authority is absent. It is advisory-only, non-clinical, and mandates human escalation.

## **Mechanism (Conceptual)**

Consent verification → Authority coverage check → Authority gap invariant triggers halt → Human escalation without automated assertion.

## **Assurance & Limits**

Deterministic state transitions, proof-of-existence via cryptographic hashes, no private data, no autonomy transfer, and no clinical or diagnostic claims.