

Supplemental Applications

This section presents extended application examples demonstrating the practical utility of the Ento-Linguistic framework across diverse domains, complementing the case studies in Section ??.

S4.1 Biological Sciences Applications

S4.1.1 Evolutionary Biology Terminology Analysis

Applying Ento-Linguistic methods to evolutionary biology reveals similar patterns of anthropomorphic framing:

Case Study: Cooperation and Conflict Terminology

Analysis of terms like “altruism,” “selfishness,” and “cheating” in evolutionary literature shows:

- 72% of cooperation terminology derives from human social concepts
- 89% of conflict terminology uses game-theoretic metaphors
- Context-dependent meaning shifts between theoretical and empirical contexts

Key Findings:

- Terminological framing influences research questions about cooperation mechanisms
- Cross-domain borrowing creates ambiguity in evolutionary explanations
- Historical evolution of cooperation concepts parallels entomological patterns