Ontology Precedes Epistemology — Table of Contents & Status of Work

Cammarano (2026) — Version 4 — 2026-06-30

Files: cammarano_2026_academic_v4.docx (body) + cammarano_2026_backmatter_v4.docx (references + appendices)

Legend

	DONE — text complete, no action required
	PLACEHOLDER / PARTIAL — structure written, data or deposit pending
	TO EXECUTE — API experiment to run, then fill
	TO DO — submission step or Phase 2 action
	STRUCTURAL / ARCHIVED — for reference only

Section	Title	File	Status	Notes / Next action
PAPER BODY — cammarano_2026_academic_v4.docx				
Title page	Ontology Precedes Epistemology...	*academic_v4*	✓ **DONE**	Title confirmed. Affiliation, keywords, correspondence: placeholder for submission.
Abstract	Phase 1 framing, ARlex/ARsem numbers, OSF ref	*academic_v4*	✓ **DONE**	Complete. Includes epistemia reference indirectly via Phase 1 statuto.
§2.1	The Problem: Knowledge Without Method	*academic_v4*	✓ **DONE**	Epistemia (Loru et al. 2025) introduced as the condition the framework addresses. Phase 1 scope sentence.
§2.2	The Gap in the Literature	*academic_v4*	✓ **DONE**	Three traditions: (1) AI safety / hallucination; (2) self-consistency / LLM-as-judge (Wang, Zheng); (3) Quattrociocchi programme. Three distinctions vs. Quattrociocchi: object / operative mode / terminological triangle.
§2.3	A Motivating Example: The Monaco Case	*academic_v4*	✓ **DONE**	Full narrative. Barbero TV statement footnote in App. E.

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§2.4	Ontology Precedes Epistemology	*academic_v4*	✓ **DONE**	No changes from v4.
§2.5	Sycophancy and Confirmation Bias	*academic_v4*	✓ **DONE**	No changes.
§2.6	Structure of the Paper	*academic_v4*	✓ **DONE**	Updated to reflect §6.6, §6.7, §4.7, Phase 2 call for annotators.
§3.1	Philosophical Foundations	*academic_v4*	✓ **DONE**	Popper / Lakatos / Kuhn / Peirce. No changes.
§3.2	Epistemology of Non-Human Testimony	*academic_v4*	✓ **DONE**	No changes.
§3.3	Post-Cognition: A Structural Concept	*academic_v4*	✓ **DONE**	Lindsey et al. 2025. No changes from v4.
§3.4	Seven-Dimensional Framework & Open Taxonomy	*academic_v4*	✓ **DONE**	Ferraris 2009, Sinclair, Wittgenstein §23. No changes.
§3.5	Exclusion Rule and Pre-Step 0	*academic_v4*	✓ **DONE**	No changes.
§3.6	Asymmetric Validation of Causal Claims	*academic_v4*	✓ **DONE**	Three-outcome examples. No changes.
§3.7	Epistemic Responsibility Check	*academic_v4*	✓ **DONE**	No changes.
§4.1	Research Questions and Hypotheses	*academic_v4*	✓ **DONE**	No changes.
§4.2	Two-Level Validation Design	*academic_v4*	✓ **DONE**	Phase 1/2 distinction explicit.
§4.3	Claim Selection	*academic_v4*	✓ **DONE**	6 vertical + 31 horizontal.
§4.4	Validation Protocol	*academic_v4*	✓ **DONE**	Multi-model control note (App. C.3).
§4.5	Metrics: Justification and Operationalization	*academic_v4*	✓ **DONE**	Mono-rater caveat on ARsem.
§4.6	Scope and Declared Limitations	*academic_v4*	✓ **DONE**	Auto-referenzialita + mono-rater + Phase 1/2. Four declared limits.
§4.7	Uplift Experiment Design [NEW]	*academic_v4*	✓ **TEXT DONE**	Full design in text. EXECUTION PENDING. Deposit App. D.5 on OSF before running.
§5.1	D1 Content Type — 11 subcategories	*academic_v4*	✓ **DONE**	Wittgenstein §246 (D1.5), §150 (D1.9). Ferraris 2009. Barbero note (*).
§5.2	Pre-Step 0 and Exclusion Rule	*academic_v4*	✓ **DONE**	No changes.
§5.3	Attributive Dimensions D2–D7	*academic_v4*	✓ **DONE**	No changes.
§5.4	31-Claim Corpus Table	*academic_v4*	✓ **DONE**	Full table with D1 + taxonomic

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				function + English translations.
§5.5	Outcome Distribution and Structural Patterns	*academic_v4*	✓ **DONE**	4 patterns. No changes.
§5.6	Taxonomy-Extending Cases	*academic_v4*	✓ **DONE**	No changes.
§6.1	Overview	*academic_v4*	✓ **DONE**	74-point gap framed. No changes.
§6.2	Results by Claim (1–6)	*academic_v4*	✓ **DONE**	Interpretive note box on vegetarianismo (40%).
§6.3	Summary Table	*academic_v4*	✓ **DONE**	6-claim table with all metrics.
§6.4	Principal Finding: ARlex–ARsem Gap	*academic_v4*	✓ **DONE**	Self-consistency link (Wang et al. 2022). Epistemia objection (Quattrociocchi) stated and reversed: ARsem alone cannot distinguish convergence from concentration — this is why the uplift experiment is the decisive move.
§6.5	Claim-Type Effects on Semantic Agreement	*academic_v4*	✓ **DONE**	No changes.
§6.6	Multi-Model Control [NEW]	*academic_v4*	**PLACEHOLDER**	Structure written. EXECUTION PENDING: 30 runs x 2 claims x MODEL-2. Fill table + update notes.
§6.7	Uplift Experiment Results [NEW]	*academic_v4*	**PLACEHOLDER**	Structure written. EXECUTION PENDING: 160 runs (4 claims x 2 conditions x 20 reps). Blind code. Fill table.
§7.1	What the Study Establishes	*academic_v4*	✓ **DONE**	Phase 1 reframe. Barycentre on D4.3 + ontological-type variance signature.
§7.2	ARlex–ARsem Gap: Implications for Elicitation	*academic_v4*	✓ **DONE**	Self-consistency link. Epistemia objection acknowledged: ARsem as necessary proxy, uplift as test that distinguishes behavior from appearance.
§7.3	Vegetarianismo Anomaly	*academic_v4*	✓ **DONE**	Most important single data point. Category error made explicit.
§7.4	Sycophancy and Limits	*academic_v4*	✓ **DONE**	No changes.
§7.5	D4.3 Procedure in Vertical Corpus	*academic_v4*	✓ **DONE**	No changes.

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§7.6	What This Study Does Not Establish	*academic_v4*	✓ **DONE**	4 declared limits. Phase 1/2 framing.
§8.1	Summary of Contributions	*academic_v4*	✓ **DONE**	Post-cognition as structural response to epistemia (Loru et al. + Quattrociocchi et al.). Three Phase 1 contributions.
§8.2	Framework as Elicitation Tool	*academic_v4*	✓ **DONE**	No changes.
§8.3	Open Taxonomy and Research Programme	*academic_v4*	✓ **DONE**	OSF deposit referenced. Sinclair / corpus linguistics path.
§8.4	Immediate Next Steps / Call for Annotators	*academic_v4*	✓ **DONE**	Call for annotators explicit. Co-authorship offer. OSF placeholder.
§8.5	Secondary Research Directions	*academic_v4*	✓ **DONE**	No changes.
§8.6	Closing Remark	*academic_v4*	✓ **DONE**	Closes on open programme + App. G invitation.
§8.6-bis	Phase 3 horizon [AUTHOR NOTE]	*academic_v4*	**PLACEHOLDER**	Placeholder in italics in text. A→B relational/textual property as Phase 3 direction. Not for development here — reserved to author.
BACKMATTER — cammarano_2026_backmatter_v4.docx				
References	64 entries (APA)	*backmatter_v4*	✓ **DONE**	Adds Loru et al. 2025 (PNAS) + Quattrociocchi, Capraro & Perc 2025 (arXiv). NOTE: Loru et al. coauthor list incomplete — verify full author list on PNAS DOI and update.
App. A	Taxonomy v2.2 Summary Reference	*backmatter_v4*	✓ **DONE**	Wittgenstein §246, §150. Gateway procedures, D1 table, D4.3 outcomes, ERC.
App. B	Coding Manual v2.0 Operational Summary	*backmatter_v4*	✓ **DONE**	Format, variables, decision rules.
App. C.1	Six Claims Submitted (Primary)	*backmatter_v4*	✓ **DONE**	
App. C.2	API Config — Primary Validation	*backmatter_v4*	✓ **DONE**	
App. C.3	API Config — Multi-Model Control [NEW]	*backmatter_v4*	✓ **STRUCTURE**	Template ready. MODEL-2 name and endpoint to fill at execution.
App. C.4	Naïf Prompt — Uplift Experiment [NEW]	*backmatter_v4*	✓ **DONE**	Verbatim naïf system prompt + user message. Blind coding noted.
App.	Pre-Registration (Primary	*backmatter_v4*	✓ **DONE**	RQ, hypotheses, design, amendment.

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D.1–D.4	Validation)			OSF DOI placeholder.
App. D.5	Pre-Registration — Uplift Experiment [NEW]	*backmatter_v4*	**✓ TEXT DONE**	Full pre-reg written. DEPOSIT ON OSF before executing §6.7. DOI placeholder.
App. E	Horizontal Corpus — 31 Claims	*backmatter_v4*	**✓ DONE**	Barbero note (*). D1, D4, Esito.
App. F	Dimensional Redundancy Matrix	*backmatter_v4*	**✓ DONE**	D2–D7 vs D1.
App. G	Open Materials — OSF Repository [NEW]	*backmatter_v4*	**✓ DONE**	Contents list, CC BY 4.0, call for annotators. OSF URL placeholder.
PENDING ACTIONS — IN EXECUTION ORDER				
1	Complete Loru et al. author list	*backmatter_v4*	**TO DO**	Verify full coauthor list on PNAS DOI 10.1073/pnas.2518443122. Update bibliography entry.
2	Deposit App. D.5 on OSF	*OSF*	**TO DO**	Pre-reg uplift experiment BEFORE running EXP-2. Get DOI. Fill placeholder in App. D.5 and §8.4.
3 — EXP-1	Multi-model control (§6.6)	*API*	**TO EXECUTE**	Choose MODEL-2. Run 30x2 claims. Fill App. C.3 with model name/endpoint. Fill §6.6 table. Update §7 if needed.
4 — EXP-2	Uplift experiment (§6.7)	*API*	**TO EXECUTE**	Run 160 calls (4 claims x 2 conditions x 20 reps). Blind code outputs. Fill §6.7 table. Update §7.1 and §8.1.
5	Deposit all open materials on OSF	*OSF*	**TO DO**	Upload files listed in App. G. Get repo DOI. Fill placeholders in App. D, G, §8.3, §8.4, §8.6.
6	arXiv preprint submission	*arXiv*	**NEXT STEP**	After EXP-1 and EXP-2 filled OR with explicit placeholders. Target: cs.AI + cs.CL. Abstract ready.
7	Workshop submission	*Conf.*	**NEXT STEP**	Parallel to arXiv. Target: EMNLP workshop, PhilNLP, or AI & epistemology venue.
8 — IAA	Inter-annotator reliability study (Phase 2)	*Phase 2*	**PHASE 2**	Recruit ≥3 annotators via §8.4 / App. G. Sub-corpus 50–100 claims. κ ≥ 0.61 criterion. Co-authorship offered.
9	English translation of Italian claims corpus	*Phase 2*	**PHASE 2**	Defer to IAA phase. Translate for inter-rater annotation. Do not translate before

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				Phase 2 design is finalized.
10	Journal — Minds and Machines / Phil & Tech	*Journal*	**AFTER IAA**	After Phase 2 IAA complete. Co-authored with annotators.
VERSION HISTORY				
v1	academic + backmatter	*Jun 28*	**ARCHIVED**	First full draft. All 8 sections written from scratch.
v2	academic_v2 + backmatter_v2	*Jun 28*	**ARCHIVED**	Bibliography corrections (Ji, Ferraris, Chang, Chalmers, Lindsey, Barbero, Wittgenstein §§).
v3	academic_v3 + backmatter_v3	*Jun 28*	**ARCHIVED**	Phase A/B/C brief applied. +22 paragraphs. §4.7, §6.6, §6.7, App. C.3/C.4/D.5/G added. Wang + Zheng refs.
v4	academic_v4 + backmatter_v4	*Jun 28*	**CURRENT ✓**	Quattrociocchi integration: epistemia in §2.1, related work in §2.2, objection+reversal in §6.4+§7.2, epistemia framing in §8.1, Phase 3 placeholder in §8.6-bis. Loru + Quattrociocchi in references.