

Loralei Benchmark Report

Generated: 2026-05-02

Source: `HUMAN_REGISTRY/BENCHMARKS/`

Summary

- Benchmarks measured: **1**
- Passing (no error): **1**
- Failures: **0**

Tier 1 — Biological Simulation Fidelity

No benchmarks have been run yet in this tier.

Tier 2 — Memory & Continuity

| Benchmark | Status | Time | Notes |

|---|---|---|---|

| `bench_forgetting_curves` | ■ pass | 0.01s | wrapped existing bench_01 (Ebbinghaus retention fit) |

`bench_forgetting_curves`

```
{
  "delegated_to": "HUMAN_REGISTRY\\RESEARCH_PRESENTATION_PACKAGE\\benchmarks\\bench_01_forgetting_curves.py",
  "latest_results_file": "HUMAN_REGISTRY\\RESEARCH_PRESENTATION_PACKAGE\\benchmarks\\bench_01_forgetting_curves_results.json",
  "results": {
    "benchmark": "forgetting_curves",
    "version": "1.1",
    "run_at": "2026-04-24T17:22:02.240245",
    "seed": 42,
    "n_entries_parsed": 4039,
    "n_bins": 16,
    "best_fit_model": "consolidation_strengthening",
    "fit_h1_ebbinghaus": {
      "a": 9.73387791578328e-10,
      "tau_hours": 3024.6267317986394,
      "b": 0.36664871433415536,
      "a_stderr": 0.9558364286448916,
      "tau_stderr_hours": 0.0,
      "b_stderr": 0.9399596355459774,
      "tau_95ci_hours": [
        3024.6267317986394,
        3024.6267317986394
      ],
      "r_squared": -4.731972591542899e-10,
      "half_life_hours": 2096.5114913924685,
      "half_life_days": 87.3546454746862,
    }
  }
}
```

```
"n_bins": 16
},
"fit_h2_consolidation": {
  "a": 1.99999999999999667,
  "tau_hours": 2186.496175744729,
  "b": 0.32054855702271723,
  "a_stderr": 26.181710885970613,
  "tau_stderr_hours": 29867.810546067467,
  "b_stderr": 0.017468637428558323,
  "tau_95ci_hours": [
    -56354.412494547505,
    60727.40484603697
  ],
  "r_squared": 0.6404095863026462,
  "half_life_hours": 1515.5636595225615,
  "half_life_days": 63.14848581344006,
  "n_bins": 16
},
"ebbinghaus_comparison": "very slow decay (>30 days)",
"verdict": "ACCEPT H2 (consolidation strengthening). Memories that survive into long_term.json strengthen over time via",
"figure_path": "C:\\Loralei_V2\\HUMAN_REGISTRY\\RESEARCH_PRESENTATION_PACKAGE\\figures\\bench_01_forgetting_curve.png",
"data_source": "BODY/BRAIN/Hippocampus/long_term.json",
"chat_probes_sent": 0,
"interpretation": "long_term.json contains memories that have already pass
```

Tier 3 — Theory of Mind & Social Cognition

No benchmarks have been run yet in this tier.

Tier 4 — Identity & Safety

No benchmarks have been run yet in this tier.

Tier 5 — Human-Rated Quality

No benchmarks have been run yet in this tier.