

Samuel Ratnam

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AI safety researcher on a gap year from Oxford. Researching alignment pretraining with Geodesic. Interested in LLM psychology, multi-agent scaffolding, and model welfare.

Education

University of Oxford — MCompSciPhil (Computer Science & Philosophy) <i>Currently on gap year</i>	2024–present
Wallington County Grammar School — 5 A*s (Maths, Further Maths, Physics, Philosophy, EPQ)	2017–2024

Experience

Geodesic Research — Research Collaborator	Oct 2025–present
First controlled study of how AI discourse in pretraining shapes alignment. Trained 6.9B LLMs; upsampling aligned discourse reduced misalignment 45%→9%. Led misalignment evals. arXiv:2601.10160	
London Impact Research Groups — Mentor	2025–present
Mentored research on how fine-tuning objectives shape safety, robustness, and persona drift in LLMs. arXiv:2601.12639	
Supervised Program for Alignment Research (SPAR) — AI Safety Researcher	Sep–Dec 2025
Research on coherence of LLM preferences; interpretive frames for understanding LLMs.	
Workshop Labs — Research Engineer	Sep–Nov 2025
Infrastructure and research for personalized model training. Embeddings pipeline 350k tok/s (DB→Turbopuffer); fine-tuning and synthetic data pipelines.	
ERA Cambridge — Fellow	Jun–Aug 2025
DELTA: framework for discovering behavioral differences between LLMs via adversarial prompts and interpretable hypotheses. Applications: reverse-engineering system prompts, LLM personality testing. Supervised by Usman Anwar.	
Encode Oxford — Chapter Lead	Oct 2024–Jul 2025
Led Oxford AI safety student group; events and community.	
Extrian — Software Engineer (Contract)	Mar–Apr 2025
Web apps and LLM pipelines for phishing simulation and cybersecurity training.	
Future Impact Group — Participant	Nov 2024–Mar 2025
Interactive visualization of welfare of future digital minds (Bradford Saad).	
ARBOx (Alignment Research Bootcamp Oxford)	Jan 2025
2-week ML safety bootcamp (David Quarrel): GPT-2 from scratch, mechanistic interp, RL.	

Publications

Alignment Pretraining: AI Discourse Causes Self-Fulfilling (Mis)alignment. C. Tice, P. Radmard, **S. Ratnam**, et al. 2026. arXiv:2601.10160

Objective Matters: Fine-Tuning Objectives Shape Safety, Robustness, and Persona Drift. D. Vennemeyer et al., **S. Ratnam**. 2026. arXiv:2601.12639 (*Mentored*)

Selected Projects

AI Alignment Research Graph — Apart Research Hackathon, 1st Place (\$1k). Graph-based tool for navigating AI safety research (team of 4).

AI Poem Copilot — EPQ. RoBERTa fine-tuned on 30k+ poems; vector DB for retrieval.