

YUNBO LONG

PhD Researcher in Generative AI & Autonomous Agentic Systems

yl892@cam.ac.uk • [yunbo-max.github.io](https://github.com/yunbo-max) • +44 7419736389 • Queens' College, Cambridge

EDUCATION

2023–Now	University of Cambridge PhD in Engineering — <i>Generative models, autonomous multi-agent systems, agentic RL; Queens' College Scholarship & Engineering Conference Funding.</i>	Cambridge, UK
2022–23	MPhil in Engineering — <i>Clustered federated learning for heterogeneous data; supervised by SCAIL Lab & Flower Lab.</i>	
2020–22	University of Birmingham BSc in Engineering, First-Class Honours — <i>Frank Wallace Scholarship (1st in academic performance, Years 2–3); Robotics Lab Research Assistant.</i>	Birmingham, UK
2018–2020	Wuhan University of Technology BSc in Automotive Engineering, GPA 3.8/4.0	Wuhan, China

RESEARCH & INDUSTRY EXPERIENCE

2025	Shanghai Academy of AI for Science (SAIS) <i>AI Research Intern</i> Developed latent diffusion language models with VAE/token alignment via MMDiT cross-attention, and diffusion-based recurrent-state transitions for RWKV / linear-attention models.	Shanghai, China
2023–Now	Cambridge University Algorithmic Trading Society (CUATS) <i>Quantitative Researcher & Senior Treasurer</i> Long-term Strategies (2018–2025): Equity & Stock Market — Post-Earnings Announcement Drift (SR: 1.27, MD: 9.5%). Short-term Strategies (2024–2025): Dividend & Futures — Pay Date Effects of Dividend (SR: 2.29, MD: 6.60%).	Cambridge, UK
2023	DIAL Lab, University of Cambridge <i>ML Engineer Intern</i> Built an unsupervised visual anomaly-detection system with Anomalib to reduce annotation needs for industrial inspection.	Cambridge, UK
2022	DataGrand (\$160M+ AI Startup) <i>NLP Intern</i> Developed OCR text-recognition algorithms for enterprise document-processing pipelines serving Fortune 500 clients.	Shenzhen, China

PROJECT EXPERIENCE

Sep–Dec 2025	Optiver & Cambridge Trading Academy <i>Trainee</i> - Selected for a competitive program on market microstructure, arbitrage and market making; implemented multiple Python strategies in Optibook. - Placed 4th in the final Live Trading Challenge with an inventory-risk-aware strategy.	Cambridge, UK
Jan–Apr 2025	Qube Research & Technologies <i>Trainee</i> - Developed profitable trading strategies using LSEG Workspace and presented the trading algorithm at the London office. - Placed 3rd in the competitive QRT Academy, partnered with Oxford and Cambridge.	London, UK

SELECTED PUBLICATIONS

- Long Y. et al. EmoDistill: Offline Emotion Skill Distillation for Language Model Agents in Adversarial Negotiation. **EMNLP 2026 (LLM Agents Track)**
- Zhao H.*, Long Y.*, et al. VeriTrace: Evolving Mental Models for Deep Research Agents. **EMNLP 2026 (LLM Agents Track)**
- Long Y., Liu Y., Xu L. EmoMAS: Emotion-Aware Multi-Agent System for Edge-Deployable Negotiation. **ACL Main 2026 (LLM Agents Track)**
- Long Y.*, Zhang J.*, Chen X. & Brintrup A. Topological Federated Clustering via Gravitational Potential Fields. **AAAI Main 2026**
- Long Y., Liu Y., Xu L. & Brintrup A. EmoDebt: Bayesian-Optimized EQ for Debt Recovery. **AAMAS Main 2026 (Oral)**
- Long Y., Xu L. & Brintrup A. Efficient and Privacy-Preserved Link Prediction via Condensed Graphs. **ESWA 2026**
- Long Y., Liu Y., Lucas B. et al. EQ-Negotiator: Emotional Personas for Credit Negotiation. **NeurIPS @PersonalLLM 2025**
- Long Y., Xu L. & Brintrup A. Evaluating Inter-Column Logical Relationships in Synthetic Tabular Data. **ICLR @SynData 2025**
- Long Y.*, Afonjia T.*, Fritz M. & Brintrup A. (2025), Self-Improving Tabular Language Models via Iterative Group Alignment **arXiv**
- Li p., Zhang J., Long Y., Liu Y., Xu L (2025), Hidden in Plain Sight: Visual-to-Symbolic Analytical Solution Inference from Field Visualizations **arXiv**
- Long Y., (2026) AI-Supervisor: Autonomous AI Research via a Persistent Research World Model **arXiv**

TECHNICAL PROFILE

ML/AI LLM fine-tuning (SFT, RLHF, DPO), Agent systems (ReAct, tool-calling, multi-agent), Knowledge distillation, Diffusion models, RL, Federated learning, Embodied AI, OCR/NLP

Engineering PyTorch, HuggingFace (Transformers, PEFT, TRL), LangGraph, vLLM, Docker, Linux, W&B, Habitat-sim, Isaac Sim/ROS

Languages Python, Bash, SQL, JavaScript

Hobbies Student Formular 1, Avalon