



EDUCATION

INSTITUT POLYTECHNIQUE DE PARIS

Doctor of Philosophy
Computer Science

Paris, France
Sep 2026 – Present

OZYEGIN UNIVERSITY

Master of Science
Artificial Intelligence
Cumulative GPA: 3.96/4.0
Relevant Coursework: Deep Learning, Reinforcement Learning, Information Retrieval

Istanbul, Turkey
Sep 2024 – Jun 2026

OZYEGIN UNIVERSITY

Bachelor of Engineering
Major in Computer Science
Cumulative GPA: 3.20/4.0
Relevant Coursework: Natural Language Processing, Computer Vision, Machine Learning

Istanbul, Turkey
Sep 2020 – Jun 2024

RESEARCH EXPERIENCE

EvoAgentX

Open-Source Developer
● Developed automatic loading and parsing of text and image content.
● Designed and implemented the pipeline for Multimodal Retrieval Augmented Generation.

Glasgow, UK (Remote)
Jun 2025 – Nov 2025

KANZY AI

Research Intern
● Designed and evaluated state-of-the-art multimodal RAG pipelines integrating dense and late-interaction retrieval methods.
● Developed reinforcement learning-based query routing for adaptive retrieval across multiple modalities.
● Automated ingestion and indexing of SEC filings into the designed multimodal RAG pipeline, leveraging AWS S3 and Lambda for scalable processing.

London, UK (Remote)
Oct 2024 – December 2025

OZYEGIN UNIVERSITY

Graduate Research Assistant
● Evaluated Theory-of-Mind capabilities in Large Language Models through opponent modeling in negotiation.
● Developed an LLM-based negotiation framework, capable of interactions in natural language, integrating modules for offer extraction, sentiment analysis and opponent modeling.

Istanbul, Turkey (On-Site)
Sep 2024 – Jun 2026

UNIVERSITY OF BOLOGNA

Research Intern
● Developed a general parser for First-Order Logic using the Tatsu library.
● Implemented fuzzy logic, arithmetic connectives, and aggregators in PyTorch.
● Automated the creation and optimization of Neural Networks based on logical rules.
● Developed a practical language to streamline the creation and optimization of Symbolic Knowledge Neural Networks.

Cesena, Italy (On-Site)
Jun 2024 – Sep 2024

OZYEGIN UNIVERSITY

Undergraduate Research Assistant
● Contributed to the design and development of a general-purpose protocol for explainable recommender agents.
● Developed an Explainable Food Recommendation platform, integrating preference modeling, user-centric explanation strategies, and interactive feedback mechanisms.
● Developed a framework to ground large language models (LLMs) using extracted factors from explainable reasoning mechanisms, enabling transparent and personalized explanations in recommender systems.

Istanbul, Turkey (On-Site)
Sep 2022 – Jun 2024

PUBLICATIONS

- **[J1] Kuru, E.,** Aydoğan, R., Öztürk, P., and Razeghi, Y. [Sharing Personal Data Through an Agent-Based Negotiation Framework: Preference Modeling and Empirical Analysis](#). ACM Transactions on Internet Technology (TOIT) (Q1)
- **[C9] Kuru, E.,** Keskin, M. O., Farahbakhsh, R., & Crespi, N. [RetrievalRouter: Joint Modality and Architecture Selection for Document Retrieval](#). Empirical Methods in Natural Language Processing (EMNLP 2026).
- **[C8] Kuru, E.** and Keskin, M. O. [RAG-MIXER: Query-Aware Selection of Modality and Retrieval Architecture](#). AAAI 2026 Workshop on New Frontiers in Information Retrieval
- **[C7] Kuru, E.,** Doğru, A., Doğan, M., and Aydoğan, R. 2025. [Evaluating Theory-of-Mind in Large Language Models Through Opponent Modeling](#). In Proceedings of the International Conference on Intelligent Virtual Agents (IVA 2025)
- **[C6] Kuru, E.** and Keskin, M. O. 2025. [Evaluating Modern RAG: Textual, Multimodal, Dense, and Late Interaction Pipelines](#). In Proceedings of the IR-RAG Workshop@SIGIR 2025: Information Retrieval's Role in RAG Systems
- **[C5] Kuru, E.** and Aydoğan, R. [Effective Use of LLMs via Counterfactual Reasoning for Transparent Recommendation Explanations](#). Submitted to the International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2026)
- **[C4] Matteini, M.,** Ciatto, G., Magnini, M., **Kuru, E.,** Aydoğan, R., & Omicini, A. [A Domain-Specific Language for Neuro- Symbolic AI: Focusing on Symbolic Knowledge Injection](#). In 1st International Workshop on Advanced Neuro-Symbolic Applications (ANSyA 2025)
- **[C3] Magnini, M.,** Ciatto, G., **Kuru, E.,** Sirocchi, C., & Montagna, S. (2025, March). [Neuro-Symbolic AI for Supporting Chronic Disease Diagnosis and Monitoring](#). In 2025 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops) IEEE Computer Society
- **[C2] Buzcu, B., Kuru, E.,** Calvaresi, D., & Aydoğan, R. (2024, May). [Evaluation of the User-Centric Explanation Strategies for Interactive Recommenders](#). In International Workshop on Explainable, Transparent Autonomous Agents and Multi-Agent Systems
- **[C1] Buzcu, B., Kuru, E., &** Aydogan, R. (2024, May). [User-centric explanation strategies for interactive recommenders](#). In Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems

MANUSCRIPTS UNDER REVIEW

- **[J2] Keskin, M. O., Kuru, E. &** Aydogan, R. Conformal Nash Orchestration: Safe Model Predictive Control of Time-Series Foundation Models in Automated Negotiation Submitted to the Expert Systems with Applications Journal.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java
- **Deep Learning Frameworks:** PyTorch, TensorFlow, Hugging Face Transformers
- **Experimentation & Configuration:** Weights & Biases (W&B), Hydra, MLFlow
- **Infrastructure & Deployment:** Docker, Kubernetes, AWS, GitHub
- **LLM & Agent Frameworks:** vLLM, LangChain, LangGraph, LangSmith, LlamaIndex, DSPy, AutoGen, CrewAI
- **Databases:** Qdrant, Weaviate, Pinecone, MongoDB, Chroma, PostgreSQL

CERTIFICATIONS

- [NVIDIA Certified Professional: Agentic AI](#)