

TIAN CHENG "RICCARDO", XIA

✉ tcxia@ik.me

🌐 notxia.github.io

🐙 github.com/NotXia

in linkedin.com/in/tian-cheng-xia

ESPERIENZA LAVORATIVA

Research Intern National Institute of Informatics, Tokyo, Japan

July 2025 - Jan 2026

- Designed a multi-agent LLM + RAG pipeline using OpenAI and open-source models deployed with vLLM for automated scientific paper generation, achieving 100% citation consistency and improving factual grounding, leading to the acceptance of 2 papers at the Agents4Science conference held by Stanford University.
- Co-designed and annotated a multimodal dataset (image, text, and tables) for scientific claim verification with 1664 samples extracted from 180 papers, which has been released for the SciClaimEval shared task.
- Built an evaluation framework served using vLLM on a cluster of 8 NVIDIA A100 GPUs to assess the adversarial effects of specific linguistic patterns on LLMs under different initialization and quantization conditions.

Research Intern SmartData Research Group, Bologna, Italy

Apr 2023 - Sept 2023

- Surveyed LLM applications in biomedical NLP, which resulted in an internal technical report that guided the research direction of the group.
- Designed a reliability-focused biomedical summarization pipeline with fine-tuned transformers, which achieved a +5% improvement in ROUGE and BERTScore on the state-of-the-art and led to the publication of a journal paper.

Stage Ufficio IT/IS Toyota Material Handling Manufacturing, Bologna

Dic 2019, Lug 2019, Feb 2019

EDUCATION

M.Sc. in Artificial Intelligence University of Bologna, Italy

Mar 2026

Thesis title: A Self-Supervised Attribution Method for Explaining Neural Networks

Graduation grade: 110/110 with honours GPA: 29.6/30 (top 5%)

B.Sc. in Computer Science University of Bologna, Italy

2023

Thesis title: Subtopic-Oriented Biomedical Summarization using Pretrained Language Models

Graduation grade: 110/110 with honours GPA: 29.52/30 (top 5%)

COMPETENZE

Core Focus	LLM fine-tuning, Multi-agent systems, RAG, Multimodal models, Explainable AI
ML Frameworks	PyTorch, TensorFlow, HuggingFace, Scikit-learn, vLLM, Ollama
RAG Frameworks	LangChain, LangGraph, Pinecone
Infrastructure	AWS, Google Cloud, Docker, Ansible, GitHub Actions, GitLab Runners, Jenkins
Backend/API	FastAPI, Flask, NodeJS, SQL, MongoDB
Languages	Python, C, C++, Java, JavaScript, TypeScript, Kotlin

LINGUE

Italiano native speaker

Inglese fluent (CEFR C1, IELTS 7,5)

Cinese conversational

ACHIEVEMENTS

1st Place at LauzHack 2024, BMS Challenge EPFL, Lausanne, Switzerland

[Project repository](#)

Developed an explainable time-series forecasting model using Gaussian Processes and Shapley values to predict pharmaceutical demand, ranking 1st out of 12 teams in the Bristol Myers Squibb 24 hours hackathon challenge.

1st Place at Tablut AI Agent Challenge University of Bologna, Italy

[Link al repository](#)

Designed and developed an AI player for the asymmetric board game Tablut using adversarial search and heuristic evaluation. The player ranked 1st out of 10 agents.

PUBLICATIONS

(2026). "SciClaimEval: Cross-modal Claim Verification in Scientific Papers".

Xanh Ho, Yun-Ang Wu, Sunisth Kumar, **Tian Cheng Xia**, Florian Boudin, Andre Greiner-Petter, Akiko Aizawa. *Language Resources and Evaluation Conference (LREC)*. arXiv: 2602.07621.

(2025). "Large Language Models Evaluation for PubMed Extractive Summarisation".

Tian Cheng Xia, Flavio Bertini, Danilo Montesi.

ACM Transactions on Computing for Healthcare. DOI: 10.1145/3766905.

(2025). "The Design and Realization of a Self-Hosted and Open-Source Agile Internal Development Platform".

Paolo Ciancarini, Raffaele Giancarlo, Gennaro Grimaudo, Marcello Missiroli, **Tian Cheng Xia**.

IEEE Access. DOI: 10.1109/ACCESS.2025.3564141.