

# TIAN CHENG "RICCARDO", XIA

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## WORK EXPERIENCE

**Research Intern** · National Institute of Informatics, Tokyo, Japan July 2025 – Jan 2026

Worked on research projects carried out by the laboratory of Prof. Akiko Aizawa:

- Designed and implemented a controlled multi-agent LLM + RAG pipeline using OpenAI and open-source models for automated scientific paper generation, improving citation accuracy and factual grounding, leading to the acceptance of 2 papers at the Agents4Science conference held by Stanford University.
- Co-designed and annotated a multimodal (image, text, and tables) dataset for scientific claim verification, which has been released for the SciClaimEval shared task.
- Conducted experiments to assess the effects of hedges and boosters in scientific writing with the goal of evaluating the adversarial effects of certain linguistic patterns on LLMs.

**Research Intern** · SmartData Research Group, Bologna, Italy Apr 2023 – Sept 2023

Worked on research projects carried out by the laboratory of Prof. Danilo Montesi:

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

**IT/IS Office Intern** · Toyota Material Handling Manufacturing, Bologna, Italy Dec 2019, July 2019, Feb 2019

- Automated SQL reporting pipelines and assembly-line data tasks using Bash, PowerShell, and Python scripts.
- Audited network infrastructure across the production plant and documented rack connectivity.

## EDUCATION

**M.Sc. in Artificial Intelligence** · University of Bologna, Italy 2023 – 2026

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

Graduation grade: 110/110 *cum laude* · GPA: 29.6/30 (top 5%)

**B.Sc. in Computer Science** · University of Bologna, Italy 2020 – 2023

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

Graduation grade: 110/110 *cum laude* · GPA: 29.52/30 (top 5%)

## SKILLS

	PyTorch · TensorFlow · HuggingFace · LangChain · LangGraph · Scikit-learn
<b>Artificial Intelligence</b>	LLM fine-tuning · Multi-agent systems · RAG · Multimodal models
	Explainable AI · Symbolic AI · Constraint programming
<b>Infrastructure</b>	AWS · Google Cloud · Docker · Ansible · CI/CD
<b>Web Development</b>	NodeJS · FastAPI · Flask · Vue · Nuxt · React · AstroJS · SQL · MongoDB
<b>Programming Languages</b>	Python · C · C++ · Java · Kotlin · Javascript

## LANGUAGES

**Italian**   native speaker  
**English**   CEFR C1 (IELTS 7.5)  
**Chinese**   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 hackathon challenge.

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

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Xanh Ho, Yun-Ang Wu, Sunisth Kumar, **Tian Cheng Xia**, Florian Boudin, Andre Greiner-Petter, Akiko Aizawa. (2026).

“SciClaimEval: Cross-modal Claim Verification in Scientific Papers”.

*Language Resources and Evaluation Conference (LREC)*. arXiv: 2602.07621.

**Tian Cheng Xia**, Flavio Bertini, Danilo Montesi. (2025).

“Large Language Models Evaluation for PubMed Extractive Summarisation”.

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

Paolo Ciancarini, Raffaele Giancarlo, Gennaro Grimaudo, Marcello Missiroli, **Tian Cheng Xia**. (2025).

“The Design and Realization of a Self-Hosted and Open-Source Agile Internal Development Platform”.

*IEEE Access*. DOI: 10.1109/ACCESS.2025.3564141.