

Luca Zhou

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<https://github.com/LuckerZOfficial>

Education

Sapienza University of Rome & CUHK (Exchange) 2023 – 2025
MSc in Computer Science: AI-centered track GPA: 4.0/4.0
University of Rome Tor Vergata 2020 – 2023
BSc in Computer Science Final Grade: 110 Summa Cum Laude

Skills

Programming Languages & Tools: Python, PyTorch, Weights & Biases, PyTorch Lightning, Git, C/C++, Java, Prolog, SQL
Languages: Mandarin Chinese (Native), Italian (Native), English (Advanced)

Research

ATM: Enhancing Model Merging through Alternating Tuning and Merging Jun. 2024 – Present
Sapienza University of Rome
- First-author paper (preprint available)
- Investigated the relationship between task vectors and multi-task gradients
- Developed an iterative model merging framework, improving task generalization
LLM-based Explanations for Mitigating the Clever Hans Effect Feb. 2023 – Jun. 2023
University of Rome Tor Vergata
- Designed an explainable AI pipeline to detect and mitigate spurious correlations in datasets
- Fine-tuned BERT on refined datasets, achieving a 40% accuracy improvement over baseline models

Experience

Visiting Scholar Mar. 2025 – May 2025
Department of Computer Science and Engineering, UCSD
- Conducting research on Time Series Captioning with LLMs under the supervision of Prof. Rose Yu
Graduate Researcher Jun. 2024 – Feb. 2025
GLADIA, Sapienza University of Rome
- Investigating novel approaches for multi-task learning and model merging
Workshop Reviewer Oct. 2024
UniReps, NeurIPS 2024
Research Intern Aug. 2023 – Dec. 2023
Reveal SRL, Rome
- Led a predictive analytics project in collaboration with the Italian Union of Chambers of Tourism
- Implemented and optimized the *Informer* transformer model to forecast Italian national tourism trends

Projects

Finger Photo Recognition System Jan. 2023
Sapienza University of Rome
- Developed a biometric recognition system leveraging finger-photo analysis
- Integrated transfer learning and contrastive learning for enhanced feature representation
- Achieved a perfect recognition rate (1.0) on the IIITD Fingerphoto dataset

Awards

Iliadship Scholarship & Mentorship 2023
- Selected as one of 10 recipients nationwide for a prestigious merit-based scholarship and mentorship program by Iliad

Extracurricular Activities

Board of European Students of Technology (BEST) Feb. 2021 – Jul. 2023
Fundraising Coordinator & Internal Relationships