

# Luca Zhou

lucazhou2000@gmail.com  
<https://github.com/LuckerZOfficial>

## Education

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**Sapienza University of Rome & CUHK Shenzhen (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

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

## Research

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**ATM: Enhancing Model Merging through Alternating Tuning and Merging**  
*Sapienza University of Rome* Jun. 2024 – Present  
- 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**  
*University of Rome Tor Vergata* Feb. 2023 – Jun. 2023  
- 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

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**Visiting Graduate Student Researcher**  
*Department of Computer Science and Engineering, UCSD* Mar. 2025 – May 2025  
- Conducting research on Time Series Captioning with LLMs under the supervision of Prof. Rose Yu  
- Remote work started in Jan. 2025  
**Graduate Student Researcher**  
*GLADIA, Sapienza University of Rome* Jun. 2024 – Feb. 2025  
- Investigated novel approaches for model merging and task arithmetic  
**Workshop Reviewer**  
*UniReps, NeurIPS 2024* Oct. 2024  
**Research Intern**  
*Reveal SRL, Rome* Aug. 2023 – Dec. 2023  
- 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

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**Finger Photo Recognition System**  
*Sapienza University of Rome* Jan. 2023  
- 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

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

## Extracurricular Activities

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