

# Luca Zhou

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<https://github.com/LuckerZOfficial>

## Education

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### Sapienza University of Rome & CUHK (Exchange)

MS in Computer Science: AI-centered track

2023 – 2025

Current GPA: 30.4/30

### University of Rome Tor Vergata

BSc in Computer Science

2020 – 2023

Final Grade: 110 *Summa Cum Laude*

## Skills

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**Programming Languages & Tools:** Python, Weights & Biases, Hydra, PyTorch Lightning, Git, C/C++, Java, Prolog, SQL

**Languages:** Chinese Mandarin (Native), Italian (Native), English (Advanced)

## Research

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### ATM: Improving Model Merging by Alternating Tuning and Merging

*Sapienza University of Rome*

*Jun. 2024 – Present*

- A first-author paper, currently under conference review.
- Proposed a novel method for multi-task model merging, surpassing baseline by up to 20% in average accuracy and achieving the state of the art.

### An LLM-based Approach for Explaining and Reducing the Clever Hans Effect

*University of Rome Tor Vergata*

*Feb. 2023 – Jun. 2023*

- Developed an explainable AI pipeline for removing the Clever Hans effect from affected data.
- Finetuned BERT on cleaned data, achieving over 40% accuracy improvement over a baseline.

## Experience

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### Graduate Researcher

*GLADIA, Sapienza University of Rome*

*Jun. 2024 – Present*

- Conducting research on multi-task model merging.

### Workshop Reviewer

*UniReps, NeurIPS 2024*

*Oct. 2024*

- Reviewed and provided detailed feedback on submitted manuscripts.

### Research Intern

*Reveal SRL, Rome*

*Aug. 2023 – Dec. 2023*

- Led a project in collaboration with the Italian Union of Chambers of Tourism.
- Implemented and tested 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 to identify subjects using a photo of their finger.
- Utilized transfer learning and contrastive learning to enhance model performance.
- Achieved a recognition rate of 1.0 on the IIIT Mobile dataset.

## Awards

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### Iliadship Scholarship & Mentorship

*2023*

- Winner of the first edition of a merit-based scholarship and tutorship offered by Iliad, awarded to 10 recipients nationwide in Italy.

## Extra-Curricular Activities

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### Board of European Students of Technology (BEST)

*Fundraising Coordinator & Internal Relationships*

*Feb. 2021 – Jul. 2023*