

# ZHOU BAICHUAN

Shanghai AI Lab, Shanghai

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## EDUCATION

B.Eng, Beihang University

2020 - 2024

School of Automation Science and Electrical Engineering

Grades: 88/100

English Proficiency: IELTS 8.0, CET6 663, CET4 667

## PUBLICATION & PREPRINTS

- ([ICLR 2025 under review](#)) LOKI: A Comprehensive Synthetic Data Detection Benchmark using Large Mmulti-modal Models. ([Project Page](#))  
*Junyan Ye\**, **Baichuan Zhou\***, Zilong Huang\*, Junan Zhang\*, Tianyi Bai, Hengrui Kang, Jun He, Honglin Lin, Zihao Wang, Tong Wu, Zhizheng Wu, Yiping Chen, Dahua Lin, Conghui He, Weijia Li
- ([AAAI 2025 under review](#)) UrBench: A Comprehensive Benchmark for Evaluating Large Multimodal Models in Multi-View Urban Scenarios. ([Project Page](#))  
**Baichuan Zhou\***, Haote Yang\*, Dairong Chen\*, Junyan Ye\*, Tianyi Bai, Jinhua Yu, Songyang Zhang, Dahua Lin, Conghui He, Weijia Li
- ([Arxiv Preprint](#)) TinyLLaVA: A Framework of Small-scale Large Multimodal Models. ([Project Page](#))  
**Baichuan Zhou**, Ying Hu, Xi Weng, Junlong Jia, Jie Luo, Xien Liu, Ji Wu, Lei Huang

\*These authors contributed equally to this work.

## OPEN SOURCE CONTRIBUTIONS

- TinyLLaVA**. A framework for training, deploying, benchmarking and visualizing small-scale large multimodal models. **Project Leader**, 600+ Stars, 350K+ checkpoint downloads.
- LOKI**. An evaluation framework for multimodal synthetic detection that supports 20+ mainstream foundation models across audio, 3D, text, image, video modalities. **Core contributor**. 80+ stars.

## RESEARCH EXPERIENCE

Research Intern @ OpenDataLab / Shanghai AI Lab

2024.04 - Now

Advised by **Prof. Weijia Li** and **Dr. Conghui He**

- Multimodal Synthetic Data Detection
  - Implemented a multimodal evaluation framework that unifies APIs of 20+ mainstream foundation models across 5 modalities with data parallel and tensor parallel support.
  - Evaluated and documented 20+ multimodal foundation models and provided analysis and results for the performance of different models.
- Probing Foundation Models as Visual Assistants under Urban Environment
  - Major role in curating a comprehensive multi-view urban benchmark for foundation models.
  - Setup codebase and evaluated 20+ LMMs in the urban environment and analyzed their performance.

Research Assistant @ 42 / Beihang University

2023.04 - 2024.04

Advised by **Prof. Lei Huang**

- Efficient Training and Inference of Large Multimodal Models
  - Setup codebase and datasets and trained the TinyLLaVA model family that consistently outperform bigger counterparts, i.e., LLaVA-1.5, with limited compute and data.
  - Babysat and run most of the ablation studies.

## SKILLS

Programming Languages Python(proficient), C/C++/MATLAB/Java(experience)

Deep Learning Frameworks PyTorch, Transformers, DeepSpeed

MISC Javascript, React, TensorFlow.js

## HONORS

2021 SMC Scholarship

Fall, 2021

Beihang University Academic Competition Scholarship

2021, 2022, 2023