Zhaolong Su

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Education

Beijing University of Technology

Sept. 2021-Jun. 2025

Project 211 of National Key Universities

Bachelor of Engineering Major: Artificial Intelligence

GPA: 3.68/4.0 | Average Mark: 87.99/100(Top 11% in Major)

Core courses: Function of the Complex Variable (99), Deep Learning(98), College Physics(98), Engineering Graphics(97), Linear Algebra (94), Natural Language Processing(93), Comprehensive Experiment in Computer Vision(93), Data Visualization(91), Optimization Theory and Methods(91), Machine Learning(90), Data Mining(90), Pattern Recognition II(84 *Rank2nd in major*).

Programming

Python, R programming language, C, Pytorch, Monai

Publication

- **Zhaolong Su**, Zongwei Zhou*, Alan Yullie*, *Breaking the Scaling Law: How can we train a segment model more efficiently over three months?* *Corresponding authors, [Preparing for ICCV 2025]
- **Zhaolong Su**, Zongwei Zhou*, Alan Yuille*, *Enabling AI to Segment Continuous Data Flow of Synonyms*, *Hierarchical*, *and Novel Classes in Multicenter CT Data with Manageable Cost*, *Corresponding authors, [RSNA 2024 2nd round rejected]
- **Zhaolong Su**, Yunhan Tian, Can Language Model Serves as a Physical Interface In Video? [Preparing for MM]
- Jiakui Hu, **Zhaolong Su****, Guoqi Li*, *Meta-Memory in Token Mixers: Defining and Exploring Memory-Performance Curves Across Vision Tasks*, *Corresponding authors, [Preparing PAMI]
- Manfei li, **Zhaolong Su****, Maizie Zhou*, *SpatialTranscriptomics LocalAlignST*, *Corresponding authors, [Preparing for Nature Communication]
- **Zhaolong Su**, Yuxuan Chen, Yike Li, Wentao Zhang*, *OpenAGCL: A Thorough Benchmark for Augmentations in Graph Contrastive Learning*, [Incoming ArXiv]

Experience

Johns Hopkins University

Computer Vision/Vision Language Model

Mar. 2024-Present

Position: Summer Onsite Intern, Supervisor: Alan Yuille, Zongwei Zhou

Project 1: Breaking the Scaling Law: How to Break the Traditional Scaling Law in a Three-Month Training. Optimizing segmentation models from the perspective of scaling down: In an effort to enhance data utilization, to train model on a continual flow of CT data and type of annotated classes from multiple clinical centers with manageable cost, using language to segment novel classes.

Ongoing Project: Video Caption Makes Better Physical Features (Preparing for MM 2025)

Utilizing Large Language Models, developed a system to enhance Video Generation (Diffusion) Models by integrating structured physical knowledge into captions, addressing limitations in existing models related to physical realism.

Vanderbilt University

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Bioinformatics Sep. 2024-Present

Position: Remote Intern, Supervisor: Xin maizie Zhou, Shan Meltzer

Ongoing Project: SpatialTranscriptomics LocalAlignST

Benchmarking Sota Align algorithms(e,g,. CAST, GPSA, STalign, scHolography), propose a novel

algorithm to align spatial data in 3D dimension.

Peking University Data-centric Machine Learning Group

GNN / LLM Jan. 2024-May. 2024

Position: Remote Intern, Supervisor: Wentao Zhang

Project 1: OpenAGCL: A Thorough Benchmark for Augmentations in Graph Contrastive Learning

Benchmarking for data augmentation for Graph Contrastive Learning, proposing new insights on graph

agumentation interpretability in Graph Contrastive Learning.

Ongoing Project: Multi-QAEncoder: Towards aligned representation learning in question answering system Large Language Model querying and indexing of knowledge for optimized problem-solving in medical domains.

The University of Hong Kong (AIMED)

Computer Vision

Position: Research Assistant, **Supervisor:** Tao Huang, Xihe Kuang Sept. 2023-Oct.2024

Project: Wukong: Light-based Disease Analysis and Follow-up

Responsible for, data generation, medical spine data set construction, developing Wukong's core Computer

Vision based algorithms and scoliosis software front-end testing.

Industry

Meituan

Large Language Model Group

del Group Feb. 2025- Present

Position: Onsite Intern

Topic: Multimodal Context Understanding

Others

- Leading the project, the data-driven crowd simulation system won the third prize at the "Challenge Cup" National College Student Extracurricular Academic Science and Technology Competition.
- National Scholarship, Academic Excellence Scholarship
- 7th China College Scientific Research English Presentation Contest national Grand Prize