

EDUCATION

Oregon State University

Corvallis, United States

*Ph.D. in Computer Science*2023 - 2029 (*expected*)

- Advisor: Prof. Huazheng Wang
- Research Area: Robust LLMs Reasoning and Decision Making & Agentic AI

Zhuhai College of Jilin University

Zhuhai, China

B.E. in Data Science

2019 - 2023

- GPA: 3.84/4.00, Rank: 1/249
- First-tier Academic Performance Scholarship for 3 consecutive years
- Outstanding Graduate Award, 2023
- Thesis: Semi-Supervised Deep Learning on Computer Vision Tasks

PUBLICATIONS

1. Yaoyao Qian, Yifan Zeng, Yuchao Jiang, Chelsi Jain, Huazheng Wang. **The Ranking Blind Spot: Decision Hijacking in LLM-based Text Ranking**, *arXiv preprint arXiv:2509.18575*, 2025. ([EMNLP 2025](#))
2. Chelsi Jain, Yiran Wu, Yifan Zeng, Jiale Liu, Shengyu Dai, Zhenwen Shao, Qingyun Wu, Huazheng Wang. **SimpleDoc: Multi-Modal Document Understanding with Dual-Cue Page Retrieval and Iterative Refinement**, *arXiv preprint arXiv:2506.14035*, 2025. ([EMNLP 2025](#))
3. Jiale Liu, Yifan Zeng, Yifan Zeng, Shaokun Zhang, Chi Zhang, Malte Højmark-Bertelsen, Marie Normann Gadeberg, Huazheng Wang, Qingyun Wu. **Divide, Optimize, Merge: Fine-Grained LLM Agent Optimization at Scale**, *arXiv preprint arXiv:2505.03973*, 2025. ([EMNLP 2025](#))
4. Jiahao Qiu, Yifu Lu, Yifan Zeng, Jiacheng Guo, Jiayi Geng, Huazheng Wang, Kaixuan Huang, Yue Wu, Mengdi Wang. **TreeBoN: Enhancing Inference-Time Alignment with Speculative Tree-Search and Best-of-N Sampling**, *arXiv preprint arXiv:2410.16033*, 2024. ([EMNLP 2025](#))
5. Hui Yuan, Yifan Zeng, Yue Wu, Huazheng Wang, Mengdi Wang, Liu Leqi. **A Common Pitfall of Margin-based Language Model Alignment: Gradient Entanglement**, *arXiv preprint arXiv:2410.13828*, 2024. ([ICLR 2025](#))
6. Yifan Zeng, Ojas Tendolkar, Raymond Baartmans, Qingyun Wu, Lizhong Chen, Huazheng Wang. **LLM-RankFusion: Mitigating Intrinsic Inconsistency in LLM-based Ranking**, *arXiv preprint arXiv:2406.00231*, 2024. ([NeurIPS 2024 Workshop SFLLM](#))
7. Yifan Zeng, Yiran Wu, Xiao Zhang, Huazheng Wang, Qingyun Wu. **AutoDefense: Multi-Agent LLM Defense against Jailbreak Attacks**, *arXiv preprint arXiv:2403.04783*, 2024. ([NeurIPS 2024 Workshop SafeGenAI](#))
8. Jianqi Yan, Junjie Luo, Yifan Zeng, Alex P Leung, Jie Feng, Hong-Hao Zhang, Weipeng Lin. **Modeling the Time Evolution of Compact Binary Systems with Machine Learning**, *The Astrophysical Journal* 973 (2), 163, 2024.
9. Jianqi Yan, Yifan Zeng, Junhong Lin, Jinrui Fan, Chuanyu Fang, Yong Cai. **Enhanced Object Detection in Pediatric Bronchoscopy Images using YOLO-based Algorithms with CBAM Attention Mechanism**, *Heliyon* 10 (12), 2024.
10. Wei Lv, Tao Chen, Yifan Zeng, Weihong Liu, Chuying Huang. **A challenge of deep-learning-based object detection for hair follicle dataset**, *Journal of Cosmetic Dermatology* 22 (9), 2565-2578, 2023.
11. Yifan Zeng, Aohui Pang, Wei Lv, Xiaolin Zhu. **Task-Level Consistency Semi-Supervised Based Domain Adaptation for Lung Nodules Segmentation**, *Computer and Information Science*, 181-196, 2022.

PROJECTS	Importance Sampling Optimization Improves Online Preference Learning <i>Yifan Zeng, Haoyu Zhao, Huazheng Wang</i>	Under Review at ICLR 2026
	Railway Defect Detection via Self-Supervised Learning on Ultrasound Data <i>Quanbao Network Technology Co., Ltd.</i>	2022.09 - 2023.12
	Context-Aware Video Object Detection on Medical Tasks <i>Quanbao Network Technology Co., Ltd.</i>	2022.03 - 2023.12
EXPERIENCE	Research Assistant Oregon State University	2025.09 - Now
	AI Agent Research Intern AG2AI	2025.06 - 2025.09
	<ul style="list-style-type: none"> Developing agentic AI systems that can process, analyze, and interact with various environments. 	
	Teaching Assistant Oregon State University	2024.09 - 2025.06
	<ul style="list-style-type: none"> CS 550 - Introduction to Computer Graphics CS 512 - Data Science Tools and Programming CS 546 - Networks in Computational Biology CS 312 - System Administration 	
	Research Assistant Oregon State University	2024.03 - 2024.09
	Research Scientist Quanbao Network Technology Co. Ltd.	2022.04 - 2023.08
	<ul style="list-style-type: none"> Developed novel semi-supervised learning algorithms and architectures to tackle complex domain-specific visual recognition tasks with limited labeled data Led research collaborations with medical institutions and railway corporation, delivering SOTA solutions for medical imaging analysis and industrial defect detection 	
SERVICE	SWE Intern Zhuhai Xiangyi Aviation Technology Co. Ltd.	2021.10 - 2022.01
	<ul style="list-style-type: none"> Designed data analysis and visualization solutions for pilot training Led the development of a pilot training tracking platform 	
	<ul style="list-style-type: none"> Reviewer WWW 2025, AAAI 2025, EMNLP 2025 	
SKILLS	Expertise:	
	<ul style="list-style-type: none"> Distributed Online RL Training for LLM Agents (e.g., GRPO with Verl) Building LLM Agents: LLM for Information Retrieval, Information Seeking Agent RLHF Pipeline: SFT, Reward Model Training, Preference Optimization (with TRL) Self-Supervised Representation Learning, Object Detection for Vision Tasks 	