Leitian Tao

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Research Interests

Post-Training of Large Language Model, Preference Learning, AI Agent, AI safety, Multi-modality

EDUCATION

• University of Wisconsin–Madison • Ph.D. student in Computer Science	Madison, Wisconsin, United States August 2023 - Present
Research interest: Large Language Model Alignment, AI Safety, AI agent, Reinforcement L	0
• Wuhan University • Undergraduate in Information Engineering Advisor: Prof. Zhenzhong Chen	Wuhan, Hubei, China August 2019 - June 2023
Experience	
Adobe Research Research Scientist Intern, mentored by Dr. Xiang Chen.	San Jose, United States May. 2024 - Present
• LLM for code generation : Developed CodeLutra, a framework that improves using iterative preference learning to refine outputs from both successful and fail	0
• University of Wisconsin Madison • Research Assistant, under the supervision of Prof. Sharon Li.	Madison, United States Dec. 2023 - Present
• Weak-to-strong alignment: Concludes that weak LLM can actually play a go the student model. The secret is a strong teacher.	bod supervisory role in the alignment of
 Out-of-distribution detection: Proposed Non-Parametric Outlier Synthesis (OOD data without distributional assumptions, significantly improving OOD det methods 	
Shanghai Artificial Intelligence Lab Research Intern, under the supervision of Dr. Peng Gao.	Shanghai, China October 2022 - March 2023
• Multi-modality model : Explore the effects and in-depth reasons of different fi models	ine-tuning methods on multimodal
• Wuhan University • Research Assistant, under the supervision of Prof. Zhenzhong Chen.	Wuhan, China July 2020 - March 2022
$\circ~$ Scene graph generation: Design a semantically relevant learning framework t	to better accomplish multimodal learning
Preprint	
• Your Weak LLM is Secretly a Strong Teacher for Alignment: Leitian Tao, Yixuan Li	

- Leitian Tao, Xiang Chen, Tong Yu, Tung Mai, Ryan Rossi, Yixuan Li, Yixuan Li, Saayan Mitra
- How Reliable Is Human Feedback For Aligning Large Language Models?: Min-Hsuan Yeh, Leitian Tao, Jeffrey Wang, Xuefeng Du, Yixuan Li

PUBLICATIONS

- Non-Parametric Outlier Synthesis: ICLR 2023 Leitian Tao, Xuefeng Du, Xiaojin Zhu, Yixuan Li.
- Predicate Correlation Learning for Scene Graph Generation: IEEE TIP Leitian Tao, Li Mi, Nannan Li, Xianhang Cheng, Yaosi Hu, Zhenzhong Chen
- Activate and Reject: Towards Safe Domain Generalization under Category Shift: ICCV 2023 Chaoqi Chen, Luyao Tang, Leitian Tao, Hong-Yu Zhou, Yue Huang, Xiaoguang Han, Yizhou Yu.

PROFESSIONAL SERVICES

- Conference Reviewer: ICML , ICLR, NeurIPS, ICME
- Journal Reviewer: IJCV

TEACHING

• Teaching Assistant at University of Wisconsin Madison: Data Science Programming II (CS-320) SKILLS SUMMARY

- Languages: Python, C++, JavaScript, SQL
- Frameworks: Pytorch, Sklearn, TensorFlow, Flask