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in xufeng-zhao-961a82286

WHY ME?

"Focused, diving into details required for effective solutions; but also consciously training myself to maintain a big picture."

I am passionate about advancing AI by developing intelligent agents, both virtual and physical, to enhance human life. My research interests form a synergistic triangle: - Large language models (vast knowledge

representation and flexible access) - Reinforcement learning (exploration & exploitation)

- Robotics (embracing reality!)

With these, I am optimistic about driving the evolution of practical and intelligent agents for the future.



Python	•	•	٠	•
Matlab	•	•	•	•
C/C++	•	•	•	•
Java (Android)	•	•	•	



German

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XUFENG ZHAO

PH.D. CANDIDATE

EDUCATION

2021 - 2025	UH University of Hamburg Ph.D. IN COMPUTER SCIENCE	Hamburg, DE
	Supervisor: Prof. Dr. Stefan Wermter. Focusing on inte development with reinforcement learning, multimodal r learning and large language models.	
2015 - 2018	University of Chinese Academy of S	ciences
	M.S. IN COMMUNICATION AND INFORMATION	Beijing, CN
	Supervisor: Prof. Dr. Daojing Li. Worked in areas of di processing, e.g., multipath clutter suppression, denois machine learning.	
2010 - 2014	Xidian University	🕈 Xi'An, CN
2010 2011	B.E. IN ELECTRONIC INFORMATION ENGINEERING	
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	WORK EXPERIENCE	
2018 - 2020	JD.COM, Inc.	Beijing, CN
	 At JD.com Inc., one of China's largest B2C e-commer contributed to projects aimed at a) driving profit growth costs, and c) enhancing user experience. Key projects Smart vending machine sales forecasting and progrecommendation (a, b) Automating medical information extraction for sm containers (a) Automated customer service for after-sales order Harmful message detection for merchant-customer messaging App (c) Assessment of images and text reviews for consuranting (a, c) 	a, b) reducing included: oduct art medical s/requests (b) er instant
2015 - 2015	Extantfuture.com, Inc.	Beijing, CN
	Contributed to the development of an innovative wear , pregnant women that passively collects multisensory of requiring active transmission. The accompanying mob real-time monitoring of fetal health, ensuring compreh- both the fetus and the mother. My primary responsibilit development of a signal processing system to monitor fetal movement, and the mother's basic activities.	lata without ile App offers ensive care for ty was the
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2024	•	ICRA@40 TRAVEL GRANTS	- IEEE Rob	otics and Automation Society
		RESEARCHER ACCESS PROGRAM OF OPENAL		- OpenAl
2017	•	ACADEMIC SCHOLARSHIP	- University of C	chinese Academy of Sciences
2016	•	ACADEMIC SCHOLARSHIP	- University of C	Chinese Academy of Sciences
2015	•	ACADEMIC SCHOLARSHIP	- University of C	chinese Academy of Sciences
		EXCELLENT STUDENT CADRE	- University of C	chinese Academy of Sciences
		TRIPLE-A STUDENT	- University of C	chinese Academy of Sciences
2013	•	The Second Prize of China Undergradua	TE	- China Society for Industrial
		MATHEMATICAL CONTEST IN MODELING		and Applied Mathematics
2012	•	THE SECOND PRIZE OF XIDIAN'S ELECTRONIC	COMPETITION	- Xidian University
		THE FIRST PRIZE OF XIDIAN'S MATHEMATICAL	Contest in	- Xidian University
		Modeling		



2024	•	oral presentation at ICRA@40, Rotterdam, Netherlands
	•	oral presentation at COLING , Turin, Italy
2023	•	oral presentation at IROS , Detroit, USA
		poster presentation at ICML , Hawaii, USA
2022	•	oral presentation at IROS , Kyoto, Japan

Thesis Supervision	•
Seminar Supervision	•
Lecture	

TEACHING

Task-Agnostic Policy Distillation: Continual Deep Reinforcement Learning with Alternating Self-Supervised Prediction, Kerim Erekmen, BSc thesis, 2023, University of Hamburg.

- Robust RGB-D to 3D mesh Construction for Robotic Simulation, Neural Networks Seminar 2024, University of Hamburg
- LLM Fine-tuning with News Data, Bio-inspired Artificial Intelligence Seminar 2023, University of Hamburg
- Survey on Deployable LLMs, Neural Networks Seminar 2023, University of Hamburg
- Unsupervised Skill Discovery Implementation, Bio-inspired Artificial Intelligence Seminar 2022, University of Hamburg
- Survey on Transformers in Reinforcement Learning, Bio-inspired Artificial Intelligence Seminar 2022, University of Hamburg

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Lectures on large language models, 2024 master course on neural networks, University of Hamburg

TALKS

RL, LLM Boosted Agents | Shanghai RobotGym Co., Ltd (如身机器人)

REVIEWS

	IROS 2025	x2	#conferenc
0005	RAS	x1	#journal
2025	RA-L	x1	#journal
	ICLR 2025	x3	#conferenc
	ICRA 2025	x2	#conferenc
	EMNLP 2024	x1	#workshop
	Humanoids	x1	#conferenc
	IROS	x2	#conferenc
2024	COLING	x1	#conferenc
2023	PeerJ Computer	x1	#journal
	Science		

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PUBLICATIONS

as (co-) 1st author

as 2nd author

- Zhao, X., Weber, C., & Wermter, S. (2024). Agentic skill discovery. CoRL 2024 Workshop / ICRA@40.
- Zhao, X., Li, M., Lu, W., Weber, C., Lee, J. H., Chu, K., & Wermter, S. (2024, May). Enhancing Zero-Shot Chain-of-Thought Reasoning in Large Language Models through Logic. 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024).
- Zhao, X., Li, M., Weber, C., Hafez, M. B., & Wermter, S. (2023).
 Chat with the environment: Interactive multimodal perception using large language models. 2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 3590–3596.
- Li, M.*, Zhao, X.*, Lee, J. H., Weber, C., & Wermter, S. (2023). Internally rewarded reinforcement learning. In Proceedings of the 40th International Conference on Machine Learning (ICML, Vol. 202, pp. 20556–20574).
- Zhao, X., Weber, C., Hafez, M. B., & Wermter, S. (2022). Impact Makes a Sound and Sound Makes an Impact: Sound Guides Representations and Explorations. 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2512–2518.
 Zhao, X., Li, D., & Hu, X. (2018). Multi-path clutter suppression in
- Chu, K., Zhao, X., Weber, C., & Wermter, S. (2025). LLM+ MAP: Bimanual Robot Task Planning using Large Language Models and Planning Domain Definition Language. (under review)
 Zhang, H., Zhao, X., Molybog, I., & Zhang, J. (2025). REAL:
- Response Embedding-based Alignment for LLMs. (under review)
 Lu, W., Zhao, X., Spisak, J., Lee, J. H., & Wermter, S. (2025).
- Mental modeling of reinforcement learning agents by language models. Transactions on Machine Learning Research (TMLR).
- Chu, K., Zhao, X., Weber, C., Li, M., Lu, W., & Wermter, S. (2024). Large language models for orchestrating bimanual robots. The 2024 IEEE-RAS International Conference on Humanoid Robots.
- Sun, X., Zhao, X., Lee, J. H., Lu, W., Kerzel, M., & Wermter, S. (2024, June 14). Details Make a Difference: Object State-Sensitive Neurorobotic Task Planning. The 33rd International Conference on Artificial Neural Networks (ICANN 2024).
- Lu, W., Zhao, X., Magg, S., Gromniak, M., Li, M., & Wermter, S. (2023). A Closer Look at Reward Decomposition for High-Level Robotic Explanations. 2023 IEEE International Conference on Development and Learning (ICDL), 429–436.

• Chu, K., Zhao, X., Weber, C., Li, M., & Wermter, S. (2023,

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