

# Ziyao Mou

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Johns Hopkins University  
Computer Science  
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Education	<b>Johns Hopkins University</b> M.S.E. in Computer Science <i>Master's Thesis: Learning to Defer under Expert Drift.</i>	<i>Aug. 2024–Dec. 2025 (expected)</i>
	<b>Huazhong University of Science and Technology</b> B.Eng. in Computer Science <i>Bachelor's Thesis: Design and Implementation of a Resource Scheduling System for Workflow Applications on a Serverless Platform.</i>	<i>Sept. 2018–June 2022</i>
Research	<b>Ziyao Mou</b> , Andrea Wynn, Eric Nalisnick. <i>Learning to Defer under Expert Drift.</i> (Under Review)	<i>Feb. 2025–Present</i>
	<ul style="list-style-type: none"><li>Designed an expert-aware learning-to-defer framework that models temporal expert drift by conditioning the deferral head on recent expert outcomes via a sequence model.</li><li>Learned history-aware policies that proactively route hard or critical cases to humans when reliability dips, improving safety under time-varying expertise.</li><li>Evaluated on image classification, medical diagnosis, and hate-speech detection with simulated and real expert drift.</li><li>Achieved higher system accuracy and better deferral efficiency than prior L2D baselines.</li></ul>	
	<b>Ziyao Mou</b> , Ha Manh Bui, Anqi Liu. <i>Multiple Domain Recalibration for Model-based Reinforcement Learning.</i>	<i>June 2025–Present</i>
	<ul style="list-style-type: none"><li>Proposed a multi-domain recalibration framework to align epistemic uncertainty across domains in model-based RL, improving robustness under domain shift.</li><li>Designed interpolation and exploration protocols with controllable noise levels train; dense interpolation; OOD to assess generalization and sample efficiency.</li><li>The proposed framework achieves enhanced in-domain interpolation and exploration efficiency, leading to better generalization and stability across environments.</li></ul>	
Employments	<b>Software Development Engineer</b>	<i>Jul. 2023–Jul. 2024</i>

	Alibaba Group, Taobao Search Team Led full-stack development of Taobao's AI-powered shopping assistant, delivering a cross-platform user interface with intelligent features such as product comparison, recommendations, and travel planning.	
	<b>Software Development Engineer</b> Alibaba Group, Platform Infrastructure Team Built a user experience reporting & telemetry platform that ingests multimedia feedback and logs, with a BERT-based sentiment clustering pipeline and screenshot similarity detection.	<i>Jul. 2022–Jul. 2023</i>
	<b>Software Development Intern</b> Alibaba Group, Buyer Base Team Designed and implemented an edge-computing streaming rendering full-stack architecture using Serverless technologies to improve responsiveness on low-end and older devices.	<i>Jun. 2021–Aug. 2021</i>
Teaching	<b>Johns Hopkins University</b> Course Assistant, Machine Learning: Artificial Intelligence System Design and Development, Fall 2025	
Awards	<b>Bronze Award, National Innovation and Entrepreneurship Competition(Challenge Cup)</b> Team Lead, AidocX Huazhong University of Science and Technology, China <b>First Prize, Physics Competition for High School Students</b> Zhejiang University Affiliated High School, China	
Skills	<b>Programming:</b> Python, Java, C/C++, SQL, TypeScript, HTML/CSS. <b>Cloud &amp; DevOps &amp; Big Data Technologies:</b> AWS (S3, Lambda), Docker, Kubernetes, MongoDB, Redis. <b>Machine Learning &amp; Data:</b> PyTorch, NumPy, Pandas, Scikit-learn. <b>Tools &amp; Version Control:</b> Git.	
Languages	English (Advanced), Mandarin Chinese (Native).	