

YAHAN YU

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EDUCATION

Kyoto University

2023.10 - 2026.09 (expected)

Ph.D. student at [Language Media lab](#), Graduate School of Informatics

Supervisor: Associate Professor [Chenhui Chu](#)

University of Chinese Academy of Sciences (UCAS)

2020.09 - 2023.06

Institute of Automation, Chinese Academy of Sciences (CASIA)

M.S. in Control Science and Engineering

RESEARCH INTEREST

- Multimodal Large Language Model
- LLM Reasoning
- Continual Learning
- Natural Language Processing

PUBLICATIONS

As the first author:

- [1] **Yahan Yu**, Duzhen Zhang, Yong Ren, Xuanle Zhao, Xiuyi Chen, and Chenhui Chu. (2025, July). Progressive LoRA for Multimodal Continual Instruction Tuning. In *Findings of the Association for Computational Linguistics: ACL 2025*. (**ACL 2025**) [[Paper](#)] [[Code](#)]
- [2] **Yahan Yu**, Zhengdong Yang, Fei Cheng, and Chenhui Chu. (2025). Semantic-Retention Attack for Continual Named Entity Recognition. *IEEE Transactions on Audio, Speech and Language Processing*. (**JCR Q2, IF=4.1**) [[Paper](#)] [[Code](#)]
- [3] Duzhen Zhang*, **Yahan Yu***, Chenxing Li, Jiahua Dong, and Dong Yu. (2025). Federated Incremental Named Entity Recognition. *IEEE Transactions on Audio, Speech and Language Processing*. (**JCR Q2, IF=4.1, * - equal contribution**) [[Paper](#)] [[Code](#)]
- [4] **Yahan Yu**, Duzhen Zhang, Xiuyi Chen, and Chenhui Chu. (2024, August). Flexible Weight Tuning and Weight Fusion Strategies for Continual Named Entity Recognition. In *Findings of the Association for Computational Linguistics ACL 2024* (pp. 1351-1358). (**ACL 2024**) [[Paper](#)] [[Code](#)]
- [5] Duzhen Zhang*, **Yahan Yu***, Chenxing Li, Jiahua Dong, Dan Su, Chenhui Chu, and Dong Yu. (2024, August). MM-LLMs: Recent Advances in Multimodal Large Language Models. In *Findings of the Association for Computational Linguistics ACL 2024* (pp. 12401-12430). (**ACL 2024, * - equal contribution**) [[Paper](#)] [[Website](#)]
- [6] Duzhen Zhang*, **Yahan Yu***, Feilong Chen, and Xiuyi Chen. (2023, July). Decomposing Logits Distillation for Incremental Named Entity Recognition. In *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 1919-1923). (**SIGIR 2023, * - equal contribution**) [[Paper](#)]
- [7] **Yahan Yu**, Bojie Hu, and Yu Li. (2022, December). GHAN: Graph-based Hierarchical Aggregation Network for Text-Video Retrieval. In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing* (pp. 5547-5557). (**EMNLP 2022**) [[Paper](#)]

- [8] **Yahan Yu**, Yuyang Dong, and Masafumi Oyamada. (2025). Learning Deliberately, Acting Intuitively: Unlocking Test-Time Reasoning in Multimodal LLMs. *arXiv preprint arXiv:2507.06999*. [[Paper](#)]

As the co-author:

- [9] Duzhen Zhang, Yong Ren, Zhong-Zhi Li, **Yahan Yu**, et al. (2025, July). Enhancing Multimodal Continual Instruction Tuning with BranchLoRA. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics*. (**ACL 2025**) [[Paper](#)]
- [10] Zhen Wan, Chao-Han Huck Yang, **Yahan Yu**, et al. (2025, July). SpeechIQ: Speech-Agentive Intelligence Quotient Across Cognitive Levels in Voice Understanding by Large Language Models. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics*. (**ACL 2025**) [[Paper](#)]
- [11] Zhengdong Yang, Shuichiro Shimizu, **Yahan Yu**, and Chenhui Chu. (2025, July). When Large Language Models Meet Speech: A Survey on Integration Approaches. In *Findings of the Association for Computational Linguistics: ACL 2025*. (**ACL 2025**) [[Paper](#)]
- [12] Yu Li, Bojie Hu, Fengshuo Zhang, **Yahan Yu**, et al. (2023, July). A Multi-Modal Debiasing Model with Dynamical Constraint for Robust Visual Question Answering. In *Findings of the Association for Computational Linguistics: ACL 2023* (pp. 5032-5045). (**ACL 2023**) [[Paper](#)]
- [13] Meng Li, **Yahan Yu**, et al. (2023, June). Stroke Extraction of Chinese Character Based on Deep Structure Deformable Image Registration. In *Proceedings of the AAAI Conference on Artificial Intelligence* (Vol. 37, No. 1, pp. 1360-1367). (**AAAI 2023**) [[Paper](#)]
- [14] Duzhen Zhang, Wei Cong, Jiahua Dong, **Yahan Yu**, et al. (2023, December). Continual Named Entity Recognition without Catastrophic Forgetting. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing* (pp. 8186-8197). (**EMNLP 2023**) [[Paper](#)]

RESEARCH EXPERIENCE

Research Intern - NEC Corporation

Feb., 2025 - May, 2025 (Japan)

- *Research on **Multimodal Reasoning of MLLMs*** ([Pub \[8\]](#)). We focused on the RL post-training of the reasoning models, and proposed the Deliberate-to-Intuitive reasoning framework to improve the understanding and reasoning ability of multimodal LLMs without extra annotations and complex rewards.

Research Intern - Baidu Technology Co.,Ltd.

December, 2022 - June, 2023 (China)

- *Research on **Continual Named Entity Recognition*** ([Pub \[6\]](#) & [Pub \[14\]](#)). We focused on the continual learning of NER models and solved the challenge of catastrophic forgetting.

Research Intern - Tencent Technology Co.,Ltd. December, 2021 - December, 2022 (China)

- *Research on **text-video retrieval and multimodal bias*** ([Pub \[7\]](#) & [Pub \[12\]](#)). We focused on the misalignment of cross-modal information in retrieval tasks and the model bias problem in VQA task.

HONORS AND AWARDS

- **DoGS Fellow** (selected by Kyoto University DoGS NEXT AI Program), Kyoto University, 2024.04 - 2026.09.

SKILLS

Operating System	Linux, Windows
Computer Language	Python, C