# 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

**Nanjing University of Aeronautics and Astronautics (NUAA)** 2016.09 - 2020.06
B.S. in Instrument Science and Technology
GPA: 91(100-point system) or 4.1(5.0-point system) Rank: 1st of 76

## RESEARCH INTEREST

- Multimodal Large Language Model
- Continual Learning

## 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 63nd 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-Agentic Intelligence Quotient Across Cognitive Levels in Voice Understanding by Large Language Models. In *Proceedings of the 63nd 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]).

**Research Intern - Baidu Technology Co.,Ltd.** December, 2022 - June, 2023 (China)

· *Research on Continual Named Entity Recognition* (Pub [6] & Pub [14]).

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

· *Research on text-video retrieval and multimodal bias* (Pub [7] & Pub [12]).

## HONORS AND AWARDS

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

## SKILLS

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|---|---|
| **Operating System** | Linux, Windows |
| **Computer Language** | Python, C |