

Haizhou Shi

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Research Interests Uncertainty Estimation, Continual Training, and Representation Learning in ML Models.

Education

Rutgers University	New Jersey, US
Ph.D in Computer Science, focusing on Machine Learning	Sept. 2022 – Present
Advisor: Professor Hao Wang .	

Zhejiang University	Hangzhou, China
M.Eng in Computer Science and Technology	Sept. 2019 – June 2022
Advisors: Professors Siliang Tang , Yueting Zhuang .	

Zhejiang University	Hangzhou, China
B.Eng in Computer Science and Technology	Sept. 2015 – June 2019
Mentors: Professors Siliang Tang , Yueting Zhuang .	

Under Review (2025) **The Hidden Life of Tokens: Reducing Hallucination of Large Vision-Language Models via Visual Information Steering.**

Zhuowei Li, **Haizhou Shi**, Yunhe Gao, Di Liu, Zhenting Wang, Yuxiao Chen, Ting Liu, Long Zhao, Hao Wang, Dimitris N. Metaxas.

in submission, [arXiv:2502.03628](#)

(2024) **Training-Free Bayesianization for Low-Rank Adapters of Large Language Models.**

Haizhou Shi*, Yibin Wang*, Ligong Han, Huan Zhang, Hao Wang.

in submission, [arXiv:2412.05723](#)

(2024) **Continual Learning of Large Language Models: A Comprehensive Survey.**

Haizhou Shi, Zihao Xu, Hengyi Wang, Weiyi Qin, Wenyan Wang, Yibin Wang, Zifeng Wang, Sayna Ebrahimi, Hao Wang.

submitted to CSUR, [arXiv:2404.16789](#)

Publication (2024) **BLoB: Bayesian Low-Rank Adaptation by Backpropagation for LLMs.**

Yibin Wang*, **Haizhou Shi***, Ligong Han, Dimitris Metaxas, Hao Wang.

NeurIPS'24, *arXiv preprint at* [arXiv:2406.11675](#)

(2023) **A Unified Approach to Domain Incremental Learning with Memory: Theory and Algorithm.**

Haizhou Shi, Hao Wang.

NeurIPS'23, *arXiv preprint* [arXiv:2310.12244](#)

(2021) **On the Efficacy of Small Self-Supervised Contrastive Models without Distillation Signals.**

Haizhou Shi, Youcai Zhang, Siliang Tang, Wenjie Zhu, Yaqian Li, Yandong Guo, Yueting Zhuang.

AAAI'22 oral, *arXiv preprint* [arXiv:2107.14762](#)

(2021) **Towards Communication-Efficient and Privacy-Preserving Federated Representation Learning.**

Haizhou Shi, Youcai Zhang, Zijin Shen, Siliang Tang, Yaqian Li, Yandong Guo, Yueting Zhuang.

FL-AAAI-22 oral, arXiv preprint arXiv:2109.14611

(2021) **CIL: Contrastive Instance Learning Framework for Distantly Supervised Relation Extraction.**

Tao Chen, **Haizhou Shi**, Siliang Tang, Zhigang Chen, Fei Wu, and Yueting Zhuang.

ACL'21, arXiv preprint arXiv:2106.10855

(2019) **Informative Visual Storytelling with Cross-Modal Rules.**

Jiacheng Li, **Haizhou Shi**, Siliang Tang, Fei Wu, Yueting Zhuang.

ACM-MM'19, Proceedings of the 27th ACM International Conference on Multimedia

(2020) **Unsupervised Reinforcement Learning of Transferable Meta-Skills for Embodied Navigation.**

Juncheng Li, Xin Wang, Siliang Tang, **Haizhou Shi** and Fei Wu, Yueting Zhuang, William Yang Wang.

CVPR'20, Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition

Pre-print

(2021) **Revisiting Catastrophic Forgetting in Class Incremental Learning.**

Zixuan Ni*, **Haizhou Shi***, Siliang Tang, Yueting Zhuang.

arXiv preprint arXiv:2107.12308

(2020) **Run Away From your Teacher: Understanding BYOL by a Novel Self-Supervised Approach.**

Haizhou Shi*, Dongliang Luo*, Siliang Tang, Jian Wang, Yueting Zhuang.

arXiv preprint arXiv:2011.10944

Work Experience

Machine Learning Research Intern, at Morgan Stanley.

New York, US

Mentors: [Marin Bilos](#), [Kashif Rasul](#).

June 2024 – Aug. 2024

Led the research project on lifelong time series forecasting.

Research Intern, at OPPO Research Institute.

Shanghai, China

Mentors: [Youcai Zhang](#), [Yandong Guo](#).

Dec. 2020 – Nov. 2021

Led the research on self-supervised learning for lightweight backbones (paper available [here](#)).

Led the research on federated self-supervised learning (paper available [here](#)).

Research Intern, at Intel Asia-Pacific Research & Development LTD. Shanghai, China

Mentors: [Shengsheng Huang](#), [Jinquan Dai](#).

Apr. 2019 – Aug. 2019

Conducted reinforcement learning research on the google football simulated environment, benchmarked multiple existing frameworks including DQN, PG, and IMPALA.

Service & Outreach

Life-long Fellow, at Melton Foundation.

June 2016 – Present

Learned and practiced the concept of the global citizenship. Participated multiple global conferences on promoting and enabling global citizenship as a way for individuals and organizations to work together across boundaries of place and identity to address global challenges.

Reviewer, at Academic Conferences

Provided review services for multiple top-notched ML&AI conferences, including *ICLR'25*, *ACL ARR'25*, *AAAI'25*, *NeurIPS'24*, *ECCV'24*, *IJCAI'24*, *AAAI'24*, *AAAI'23*, *ICCV'23*, *ECCV'22*.