

Haizhou Shi (史海舟)

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Research Interests Continual Learning, Domain Adaptation, Representation Learning.

Education

Rutgers University

Ph.D. in Computer Science, focusing on Machine Learning
Advisor: Professor [Hao Wang](#).

New Jersey, US

Sept. 2022 – Present

Zhejiang University

M.Eng in Computer Science and Technology
Advisors: Professors [Siliang Tang](#), [Yueting Zhuang](#).

Hangzhou, China

Sept. 2019 – June 2022

Zhejiang University

B.Eng in Computer Science and Technology
Mentors: Professors [Siliang Tang](#), [Yueting Zhuang](#).

Hangzhou, China

Sept. 2015 – June 2019

Publication

(2024) **GraphControl: Adding Conditional Control to Universal Graph Pre-trained Models for Graph Domain Transfer Learning.**

Yun Zhu, Yaoke Wang, **Haizhou Shi**, Zhenshuo Zhang, Siliang Tang
[WebConf'24 oral](#), [arXiv preprint arXiv:2310.07365](#)

(2024) **MARIO: Model Agnostic Recipe for Improving OOD Generalization of Graph Contrastive Learning.**

Yun Zhu, **Haizhou Shi**, Zhenshuo Zhang, Siliang Tang.
[WebConf'24](#), [arXiv preprint arXiv:2307.13055](#)

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

Haizhou Shi, Hao Wang.
[NeurIPS'23](#), [arXiv preprint arXiv:2310.12244](#)

(2023) **Structure-Aware Group Discrimination with Adaptive-View Graph Encoder: A Fast Graph Contrastive Learning Framework.**

Zhenshuo Zhang, Yun Zhu, **Haizhou Shi**, Yun Zhu, Siliang Tang.
[ECAI'23](#), [arXiv preprint arXiv:2303.05231](#)

(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

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

Haizhou Shi, Zihao Xu, Hengyi Wang, Weiyi Qin, Wenyuan Wang, Yibin Wang, Hao Wang.

arXiv preprint arXiv:2404.16789

(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: TBD.

June 2024 – Aug. 2024

About to start.

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-notch ML&AI conferences, including **ECCV'24, IJCAI'24, AAAI'24, AAAI'23, ICCV'23, ECCV'22, and ECAI'23.**