

# Haizhou Shi (史海舟)

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**Research Interests** Continual Learning, Domain Adaptation, Representation Learning.

## 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](#).

## 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: Sahil Garg, Anderson Schneider.

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](#).