Huaiguang Cai

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Education

2022 – 2025 Institute of Automation, Chinese Academy of Sciences, Beijing, China.

Master Student, Advisor: Dr. Wensheng Zhang.

Major: Pattern Recognition and Intelligent System, GPA: 3.84/4.00.

2018 – 2022 Sun Yat-Sen (Zhongshan) University, Guangzhou, China.

Bachelor Degree, Advisor: Dr. Zhi Zhou & Dr. Chang-Dong Wang.

Major: Computer Science, GPA: 3.9/4.0.

Research Interests

My research aims to develop reliable, explainable, and practical decision-making algorithms. My interests include LLM, algorithmic game theory, and online learning theory.

Publications

INFOCOM Huaiguang Cai, Zhi Zhou, and Q. Huang, "Online Resource Allocation for Edge

2024 Intelligence with Colocated Model Retraining and Inference," in IEEE Conference on Computer Communications, Vancouver, Canada, May 20–23, 2024. (CCF-A).

Submmitted CHG Shapley: Efficient Data Valuation and Selection towards Trustworthy

to ICLR Machine Learning.

Explainable Decision-making: Attribute model performance to training data.

The Visual **CAMs as Shapley Value-based Explainers**.

Computer Explainable Decision-making: Attribute model prediction to input features.

Project

2021 – 2022 Recommendation System, Bachelor Thesis, Sun Yat-Sen University.

A Bipartite GNN-based Recommendation with Dynamic Multi-negative Sampling.

2022 – 2023 Online Learning and Game Theory Review (in Chinese), 19 pages.

Link: https://caihuaiguang.github.io/my_summary/OL/OL_GT2.pdf

2023 – 2024 Ad Auction, Brand Advertising, Intern, ByteDance, Ocean Engine.

2022- Now Learning in Games, Independent Researcher.

Experimentally observed that predictive CFR algorithms converge faster in last-iterate than average-iterate in non-HUNL two-player zero-sum games; acknowledged by Prof. Gabriele Farina, MIT. Ongoing theoretical investigation will further explore this finding.

2024- Now **DocQA**, Large Language Model, Intern, MiniMax.

Skills

Programing C/C++, Python, LaTeX, MATLAB.

Other Guitar, Rowing.