Yizhou "Harry" Tian

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SUMMARY

My research interest lies in in Human-AI interaction (HAI). I aim to building more effective and responsible human-AI collaboration by leveraging AI that model humans. Currently, I am interested in (i) designing human-compatible decision support systems and AI teaching frameworks and (ii) the gap between HAI experiments on laypeople and practitioners.

EDUCATION

University of Chicago   2021 - Present
M.S. in Computer Science, Pre-Doctoral program
Advisor: Chenhao Tan

– *Relevant Coures*: Fundamentals of Deep Learning, Natural Language Processing, Mathematical Foundations of Machine Learning, Human-Centered Machine Learning

Carleton College   2017 - 2021
B.A. in Computer Science and Linguistics

RESEARCH EXPERIENCE

Research Assistant - University of Chicago   Sep 2021 - present
Chicago Human+AI Lab

– Designed case-based decision support system using human-compatible representations, ran human studies on natural image and medical image datasets.
– *Work in progress*: Building AI-driven tutorial for radiology residents training on prostate cancer diagnosis. Experimenting on contrastive learner models.

Research Assistant - REU at University of Minnesota   Jun 2020 - Aug 2020
Advisor: Zhiwei Steven Wu

– Experimented on hyperparameter optimization methods on differentially private algorithms and concluded that Random Search outperforms Bayesian Optimization in the general case.
– Created and presented research poster in virtual National REU Poster Symposium

Research Assistant - REU at University of North Texas   Jun 2019 - Aug 2019
– Learned and experimented with neural networks and text encoders.

PUBLICATIONS

Learning human-compatible representations for case-based decision support
Han Liu, **Yizhou Tian**, Chacha Chen, Shi Feng, Chen Yuxin, and Chenhao Tan. (Under Review)

Towards effective case-based decision support with human-compatible representations ⬀
Han Liu, **Yizhou Tian**, Chacha Chen, Shi Feng, Chen Yuxin, and Chenhao Tan. *In Proceedings of the 1st ICML 2022 Workshop on Human-Machine Collaboration and Teaming* (HMCaT, ICML 2022)

RELEVANT SKILLS

Programming Languages: Python, HTML5, C, Java,

Packages & Platforms: Pytorch, Django, Numpy, Pandas, git

Professional Experience

Software Engineer Extern - FormFast   Nov 2018 - Dec 2018
FormFast, healthcare eForms company   St. Louis, MO
– Shadowed developers in working process, learned software development basics.
– Created blood bank management Windows App using C#.

Latin American History course Teaching Assistant - JNC   July 2018 – Aug 2018
JNC International Summer School   Guangzhou, China

Study abroad experience

AIT Budapest   Sep 2019 - Dec 2019
Computer Science Study Abroad Program   Budapest, Hungary

LSE-PKU Summer School   Aug 2018
Coursework: Big Data: Data Analytics for Business and Beyond   Beijing, China