

Yizhou “Harry” Tian

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RESEARCH INTERESTS

My research interest lies 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

Purdue University

Ph.D. in Computer Science

June 2022 –

West Lafayette, IN

University of Chicago

M.S. in Computer Science, Pre-Doctoral program

Sept 2021 – Dec 2022

Chicago, IL

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

Carleton College

B.A. in Computer Science and Linguistics

Sept 2017 – June 2021

Northfield, MN

RESEARCH EXPERIENCE

Chicago Human+AI Lab, University of Chicago

Advisor: Chenhao Tan

Sep 2021 –

Chicago, IL

- Designed case-based decision support system using human-compatible representations, ran human studies on natural image and medical image datasets. [1, 2]
- *Work in progress:* Building AI-driven tutorial for radiology residents training on prostate cancer diagnosis. Experimenting on contrastive learner models.

REU at University of Minnesota

Advisor: Zhiwei Steven Wu

Jun – Aug 2020

Virtual

- 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.

REU at University of North Texas

Jun – Aug 2019

Denton, TX

- Learned and experimented with neural networks and text encoders.

REFERENCES

- [1] Han Liu, **Yizhou Tian**, Chacha Chen, Shi Feng, Yuxin Chen, and Chenhao Tan. [Learning human-compatible representations for case-based decision support](#). In *ICLR*, 2023. **To Appear**.
- [2] Han Liu, **Yizhou Tian**, Chacha Chen, Shi Feng, Yuxin Chen, and Chenhao Tan. [Towards effective case-based decision support with human-compatible representations](#). In *Proceedings of the 1st ICML 2022 Workshop on Human-Machine Collaboration and Teaming*, 2022.

HONORS & AWARDS

Ranked 6th Place in [the PI-CAI Prostate Cancer AI Imaging Grand Challenge](#)

Nov 2022

INDUSTRY EXPERIENCE

FormFast

Software Engineer Extern

Nov – Dec 2022

St. Louis, MO

- Shadowed developers in working process, learned software development basics
- Created blood bank management Windows App using C#

JNC International Summer School

Latin American History course Teaching Assistant

June – Aug 2018

Guangzhou, China

SKILLS

Languages: Python, HTML5, C, Java,

Frameworks & Tools: Pytorch, Django, Numpy, Pandas, git

STUDY ABROAD EXPERIENCE

AIT Budapest

Computer Science Study Abroad Program

Sept – Dec 2019

Budapest, Hungary

LSE-PKU Summer School

Coursework: Big Data: Data Analytics for Business and Beyond

August 2018

Beijing, China