Yizhou "Harry" Tian

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RESEARCH INTERESTS

My research interest lies in in human-AI collaboration. I aim to build more effective and responsible human-AI collaboration by leveraging human modeling and human-compatible AI.

EDUCATION

Ph.D. in Computer Science, Purdue University	2023 – Present
M.S. in Computer Science, University of Chicago	2022
B.A. in Computer Science and Linguistics	2021

RESEARCH EXPERIENCE

Purdue University — 2023 – Present
Advisor: Ming Yin — *West Lafayette, IN*

- *Work in progress*: Investigating human-compatible AI explanations.

University of Chicago, Chicago Human+AI Lab — 2021 – 2023
Advisor: Chenhao Tan — *Chicago, IL*

- Designed case-based decision support system using human-compatible representations, ran human studies on natural image and medical image datasets. [2]
- *Work in progress*: Developing more effective machine teaching protocols by modeling humans as contrastive learning models and KNN. [1]

University of Minnesota, REU — Summer 2020
Advisor: Zhiwei Steven Wu — *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.

University of North Texas, REU — Summer 2019
Denton, TX

- Learned and experimented with neural networks and text encoders.

PUBLICATIONS

[1] *Han Liu, ***Yizhou Tian**, Chaoqi Wang, Shi Feng, Yuxin Chen, and Chenhao Tan. Contrastive knns as learners in machine teaching.

[2] 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.

TEACHING EXPERIENCE

Teaching assistant positions:
Purdue University

- CS 17600: Data Engineering In Python

JNC International Summer School

- Latin American History

HONORS & AWARDS

Ranked 6th Place in the PI-CAI Prostate Cancer AI Imaging Grand Challenge — *2022*

Industry Experience

FormFast   Fall 2018
Software Engineer Extern   *St. Louis, MO*

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

Relevant Skills

Programming Languages: Python, Tex, HTML5, C, Java, C#
Frameworks & Tools: Pytorch, Django, Numpy, Pandas, git, LaTex

Study abroad experience

AIT Budapest   Fall 2019
Computer Science Study Abroad Program   *Budapest, Hungary*

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