

Yizhou “Harry” Tian

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RESEARCH INTERESTS

My research interest lies 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, Carleton College 2021

RESEARCH EXPERIENCE

Purdue University, Ph.D. 2023 – Present
Advisor: Ming Yin *West Lafayette, IN*

- *Work in progress:* Investigating human-aligned AI explanations for human-AI decision-making.

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 2023 – Present

- CS 17600: Data Engineering In Python

JNC International Summer School Summer 2018

- Latin American History

HONORS & AWARDS

Ranked 6th Place in [the PI-CAI Prostate Cancer AI Imaging Grand Challenge](#) 2022

INDUSTRY EXPERIENCE

FormFast

Software Engineer Extern

Fall 2018

St. Louis, MO

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

PROFESSIONAL SERVICE

Conference reviewers for NeurIPS.

RELEVANT SKILLS

Programming Languages: Python, Tex, HTML5, C, Java, C#

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

STUDY ABROAD EXPERIENCE

AIT Budapest

Computer Science Study Abroad Program

Fall 2019

Budapest, Hungary

LSE-PKU Summer School

Coursework: Big Data: Data Analytics for Business and Beyond

Summer 2018

Beijing, China