

Yizhou “Harry” Tian

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SUMMARY

Broadly, I am interested in human-centered machine learning and modeling human perception. By encoding and modeling human perception, I design decision support systems and teaching algorithms that are more effective and more interpretable to humans..

EDUCATION

University of Chicago 2021 - Present

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

Advisor: [Chenhao Tan](#)

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. Exploring categorization learning 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

PUBLICATIONS

Learning human-compatible representations for case-based decision support [🔗](#)

Han Liu, **Yizhou Tian**, Chacha Chen, Shi Feng, Chen Yuxin, and Chenhao Tan. (Preprint)

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

Latin American History course Teaching Assistant - JNC July 2018 – Aug 2018

JNC International Summer School

STUDY ABROAD EXPERIENCE

AIT Budapest

Sep 2019 - Dec 2019

Computer Science Study Abroad Program

Budapest, Hungary

Coursework:

LSE-PKU Summer School

Aug 2018

Coursework: Big Data: Data Analytics for Business and Beyond

Beijing, China