

# Yizhou “Harry” Tian

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## RESEARCH INTERESTS

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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

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### University of Chicago

Sept 2021 – Dec 2022

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

Chicago, IL

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

### Carleton College

Sept 2017 – June 2021

B.A. in Computer Science and Linguistics

Northfield, MN

## RESEARCH EXPERIENCE

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### Chicago Human+AI Lab, University of Chicago

Sep 2021 –

*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. [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

Jun – Aug 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.

### REU at University of North Texas

Jun – Aug 2019

Denton, TX

- Learned and experimented with neural networks and text encoders.

## REFERENCES

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- [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

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

Nov 2022

## INDUSTRY EXPERIENCE

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### **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

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Languages: Python, HTML5, C, Java,

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

## STUDY ABROAD EXPERIENCE

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### **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*