

# Yizhou “Harry” Tian

✉ [tianh@uchicago.edu](mailto:tianh@uchicago.edu) | 🌐 [harry-tian.github.io](https://github.com/harry-tian) |

## 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