

Yuxin Xiao

✉ yuxin102@mit.edu | 🏠 xiaoyuxin1002.github.io | 📧 xiaoyuxin1002 | 🌐 xiaoyuxin1002 | 🐦 @YuxinXiao6

Research Interest

My current research focuses on ethical and deployable large language models (LLMs) for healthcare. I am particularly interested in evaluating and mitigating the bias, hallucination, and miscalibration in LLMs.

Education

Massachusetts Institute of Technology (MIT)

PH.D. IN SOCIAL & ENGINEERING SYSTEMS AND STATISTICS

- Advised by **Prof. Marzyeh Ghassemi**; GPA: 5.00/5.00
- Affiliated with Institute for Data, Systems, and Society (IDSS) and Laboratory for Information and Decision Systems (LIDS)

Cambridge, MA

09/2022 - Present

Carnegie Mellon University (CMU)

M.S. IN MACHINE LEARNING

- Advised by **Prof. Eric Xing** and **Prof. Louis-Philippe Morency**; GPA: 4.12/4.33

Pittsburgh, PA

08/2020 - 12/2021

University of Illinois at Urbana-Champaign (UIUC)

B.S. IN COMPUTER SCIENCE; B.S. IN STATISTICS, MATHEMATICS

- Advised by **Prof. Jiawei Han** and **Prof. Hari Sundaram**; GPA: 3.93/4.00

Urbana, IL

08/2016 - 05/2020

Awards & Honors

- 2020 **C. W. Gear Outstanding Undergraduate Award**, UIUC (2 at UIUC)
- 2020 **CRA Outstanding Undergraduate Researcher Award (Honorable Mention)**, CRA (4 at UIUC)
- 2012-2015 **Senior-Middle 1 (SM1) Scholarship**, Ministry of Education, Singapore

Publications

(* indicates equal contribution)

In the Name of Fairness: Assessing the Bias in Clinical Record De-identification

YUXIN XIAO*, SHULAMMITE LIM*, TOM JOSEPH POLLARD, MARZYEH GHASSEMI (oral presentation)

FAccT 2023

[Paper], [Code]

Uncertainty Quantification with Pre-trained Language Models: A Large-Scale Empirical Analysis

YUXIN XIAO, PAUL PU LIANG, UMANG BHATT, WILLIE NEISWANGER, RUSLAN SALAKHUTDINOV, LOUIS-PHILIPPE MORENCY (findings)

EMNLP 2022

[Paper], [Code]

SAIS: Supervising and Augmenting Intermediate Steps for Document-Level Relation Extraction

YUXIN XIAO, ZECHENG ZHANG, YUNING MAO, CARL YANG, JIAWEI HAN (oral presentation)

NAACL 2022

[Paper], [Code]

Amortized Auto-Tuning: Cost-Efficient Bayesian Transfer Optimization for Hyperparameter Recommendation

YUXIN XIAO, ERIC P. XING, WILLIE NEISWANGER

Preprint 2021

[Paper], [Code]

Heterogeneous Network Representation Learning: A Unified Framework with Survey and Benchmark

CARL YANG*, **YUXIN XIAO***, YU ZHANG*, YIZHOU SUN, JIAWEI HAN (300+ citations, 300+ GitHub stars and forks)

TKDE 2020

[Paper], [Code]

Discovering Strategic Behaviors for Collaborative Content-Production in Social Networks

YUXIN XIAO, ADIT KRISHNAN, HARI SUNDARAM (oral presentation)

WWW 2020

[Paper], [Code]

Non-local Attention Learning on Large Heterogeneous Information Networks

YUXIN XIAO*, ZECHENG ZHANG*, CARL YANG, CHENGXIANG ZHAI (oral presentation)

IEEE BigData 2019

[Paper], [Code]

Industry Experience

Zoom RESEARCH INTERN, GENAI R&D TEAM

San Jose, CA

06/2024 - 08/2024

Bosch Center for AI RESEARCH INTERN, NLP TEAM

Renningen, Germany

06/2023 - 08/2023

Cars.com SOFTWARE ENGINEER INTERN, MOBILE DEVELOPMENT TEAM

Chicago, IL

01/2018 - 08/2018

Teaching Experience

MIT 14.310X DATA SCIENCE FOR SOCIAL SCIENTISTS, TEACHING ASSISTANT & SESSION INSTRUCTOR

Summer 2022

UIUC CS446 MACHINE LEARNING, COURSE ASSISTANT

Fall 2019

UIUC CS410 TEXT INFORMATION SYSTEMS, COURSE ASSISTANT

Fall 2019

UIUC CS125 INTRO TO COMPUTER SCIENCE, COURSE ASSISTANT

Spring 2017