

Xiaoyu Liu

(Pronouns in use: she/her/hers)

Curriculum Vitae

EDUCATION

Ph.D., Biomedical and Health Informatics University of Wisconsin Milwaukee, USA	Dec 2022
M.B.A., Business Administration Middle Tennessee State University, USA	May 2017
B.B.A., Business Administration North China University of Technology, China	Jun 2016

PROFESSIONAL EXPERIENCE

Assistant Professor Department of Health Management and Policy College for Public Health and Social Justice Saint Louis University	Aug 2023 to Present
Assistant Lecturer School of Health Sciences College of Human and Health Sciences Southern Illinois University Carbondale	Aug 2022 to Aug 2023

RESEARCH INTERESTS

My primary interest is to identify unmet healthcare needs and improve health outcomes with trustworthy, effective health IT solutions.

Theories & Methodologies:

- Data Science and Informatics: Natural Language Processing, Applied Machine Learning and Data Mining
- Health Design Thinking, Innovation in Healthcare Service Delivery, Mixed Methods Research

Topics:

- Health Information on the Internet/Social media, Infodemic, Ageing, Cardiovascular, Maternal Health, Clinical Decision Support System, mHealth, Serious Game, Assisted Living Technology

RESEARCH PAPERS

Published/Accepted

- Tong, L., Luo, J., Adams, J., Osinski, K., **Liu, X.**, & Friedland, D. (2023).

- Review of Domestic and Foreign Theory and Practical Experience of Health Care Service for the Aged

Note: The reports above have been reviewed and some have been adopted by the Beijing government for formulating and implementing aging care policies.

CONFERENCES

- Tong, L, **Liu, X**, Luo, J (2023),

Graduate Research Assistant
College of Nursing

Jan 2020 to May 2022

- American Medical Informatics Association: AMIA
- Academy Health
- Institute for Healthcare Informatics - Innovation and Excellence

PROFESSIONAL SERVICES

Reviewer

- Journal of Medical Internet Research (JMIR)
- JMIR Serious Games
- JMIR Human Factors
- AMIA Informatics Summit 2023
- APHA Summit and Expo 2023

Invited Talks

- Podcast: AMIA as a Catalyst for Collaboration. AMIA, Aug 24, 2021
- Invited Talk: AI-based techniques for Combating Health Misinformation. Northwestern Mutual, Nov 23, 2021.
- Invited Talk: The impact of Artificial Intelligence on Human Society. Sociology Program, Behavioral Science Department. Utah Valley University. (April 13,2023)

DEPARTMENT/UNIVERSITY SERVICES

University of Southern Illinois Carbondale

Graduate Student Mentor

Aug 2022 to Aug 2023

Fnu Muskan, Master Student of Health Administration

Ugochukwu G Ezigbo, Master Student of Health Informatics

Student Scholarship Committee Chair

Feb 2023 to March 2023

Health Care Management Program

School of Health Sciences

Program Director: Sandra Collins, PhD

Master of Health Informatics Curriculum Specialist

Dec 2022 to Feb 2023

Health Care Management Program

School of Health Sciences

Program Director: Sandra Collins, PhD

Search Committee Member

Nov 2022 to Jan 2023

- Health Care Management Program
- Dental Hygiene Program
- Radiology Sciences Program
- Occupational Therapy Doctorate Program

School of Health Sciences

School Director: Scott Collins, PhD

University of Wisconsin Milwaukee

SKILLS

Technical Skills

- Programming languages: Python, Java
- Data Mining & Machine Learning: TensorFlow, Keras, Scikit-Learn, NumPy, Seaborn, Weka, LIME, SHAP, MATLAB
- Natural Language Processing: spaCy, NLTK, Word2Vec, GloVe
- Statistical Software: SPSS, MINITAB
- Prototyping: Figma
- Data Visualization: Tableau
- Database: Access, Oracle

Soft Skills

- Interdisciplinary team collaboration
- Consulting/Strategy Analysis /Proposal
- Needs/Problem Identification
- System Troubleshooting
- Quality Control
- Motivation