

Xiaoyu Liu

(Pronouns in use: she/her/hers)

Curriculum Vitae

EDUCATION

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|---|----------|
| 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

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| 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