AIJIA YUAN

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1275 E. 10th St

Bloomington, IN 47405

EDUCATION

Doctor of Philosophy (Ph.D.)
Indiana University, Kelley School of Business   2021 – 2026 (Expected)
Advisor: Dr. Sagar Samtani
Major: Management Information Systems
Minor: Data Science

Master of Science (M.S.)
Duke University, Fuqua School of Business   2019 - 2020
Major: Quantitative Management, Business Analytics
Minor: Finance

Bachelor of Science (B.S.)
Centre College   2015 - 2019
Major 1: Mathematics
Major 2: Economics and Finance

RESEARCH INTERESTS

1. **Applications:** health informatics, mental health analysis, sensor signal analysis
2. **Methods:** artificial intelligence, machine learning, deep learning, large language models

RESEARCH EXPERIENCE

Indiana University, Bloomington, IN   2021 - Present
Research Associate
- Depression detection using sensor signal data via deep learning approaches.
- Sensor-based mental health analysis via privacy-preserving approaches.
- Developing artificial intelligence (AI)-enabled mental health therapist via large language models.

Centre College, Danville, KY   2018
Research Assistant, Department of Mathematics
- Symplectic matroids, circuits, and signed graphs research program

TEACHING EXPERIENCE

Centre College, Danville, KY   2017 - 2018
Teaching Assistant, Department of Mathematics
- Calculus I and Calculus III
- Conducted weekly Q&A homework sessions and assisted class material preparation

WORKING JOURNAL PAPERS

1. **A. Yuan**, H. Zhu, E. Garcia, and S. Samtani, "Detecting the Human Behaviors Associated with Depression via Sensor Signal Analysis: A Multiview-based Self-Attention Approach" *Targeted at Information Systems Research (ISR).*

2. **A. Yuan**, S. Samtani, H. Zhu, and E. Garcia, "Privacy-Preserving Depressive Behavior Detection Using Sensor Signal Data: An Attention-based Knowledge Distillation Approach".

REFEREED CONFERENCE PAPERS

1. **A. Yuan**, H. Zhu, E. Garcia, and S. Samtani, "Detecting the Human Behaviors Associated with Depression via Sensor Signal Analysis: A Multiview-based Self-Attention Approach" *2023 Conference on Health IT and Analytics (CHITA)*. **Best Student Paper Award.**

2. **A. Yuan**, H. Zhu, S. Samtani, E. Garcia, and M. Xu "Identifying Depressive Behaviors Using Privacy Preserving Passive Sensor Signal Data" *2023 IEEE International Conference on Digital Health (ICDH).*

3. **A. Yuan**, H. Zhu, E. Garcia, and S. Samtani, "Detecting the Human Behaviors Associated with Depression via Sensor Signal Analysis: An Agreement-based Self-Attention Deep Learning Approach" *2022 INFORMS Workshop on Data Science (WDS).* **Best Student Paper Award Nominee.**

INVITED PRESENTATIONS

1. INFORMS 2022 Annual Meeting. **Presentation Title:** Detecting the Human Behaviors Associated with Depression via Sensor Signal Analysis. Indianapolis, IN. Oct.16, 2022.

PROFESSIONAL SERVICE

Reviewer
- International Conference on Information Systems (ICIS), 2023
- INFORMS Workshop on Data Science (WDS), 2023
- Pacific Asia Conference on Information Systems (PACIS), 2023
- INFORMS Workshop on Data Science (WDS), 2022. **Best Reviewer Award.**
- INFORMS Conference on Information Systems and Technology (CIST), 2022
- International Conference on Information Systems (ICIS), 2022

Volunteer
- INFORMS Conference on Information Systems and Technology (CIST), 2022
- INFORMS Workshop on Data Science (WDS), 2022
- International Conference on Information Systems (ICIS), 2021
- INFORMS Workshop on Data Science (WDS), 2021

PROFESSIONAL AFFILIATIONS

1. Association of Information Systems (AIS), Student Member
2. Association of Computing Machinery (ACM), Student Member

3. Institute for Operations Research and the Management Sciences (INFORMS), Student Member
4. Institute of Electrical and Electronics Engineers (IEEE), Student Member

AWARDS AND RECOGNITION
1. Best Student Paper Award, Conference on Health IT and Analytics, 2023
2. Participation in Doctoral Consortium, Conference on Health IT and Analytics, 2023
3. Best Student Paper Award Nominee, INFORMS Workshop on Data Science, 2022
4. Best Reviewer Award, INFORMS Workshop on Data Science, 2022
5. Membership in Phi Beta Kappa Honor Society, 2019
6. Membership in Pi Mu Epsilon Honor Society, 2019
7. Colonel Scholarship, Centre College, 2015 – 2019

COMPUTER SKILLS
Python, R, SQL, Tableau, Matlab, Stata, SPSS, Mathematica, Qualtrics, NodeXL

PROFESSIONAL REFERENCES
1. Sagar Samtani, Ph.D. (Dissertation Committee Chair)
   Assistant Professor and Grant Thornton Scholar
   Department of Operations and Decision Technologies
   Kelley School of Business, the Indiana University
   1275 E. 10th St, HH 4111
   Bloomington, IN 47405
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   Phone Number: +1 (520)-971-4274

2. Hongyi Zhu, Ph.D.
   Assistant Professor of Information Systems
   Department of Information Systems and Cyber Security
   Carlos Alvarez College of Business, the University of Texas at San Antonio
   1 UTSA Circle
   San Antonio, TX 78249
   Email: hongyi.zhu@utsa.edu,
   Phone Number: +1 (210)-458-8030

3. Alan Dennis, Ph.D.
   Professor of Information Systems
   Department of Operations and Decision Technologies
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   Bloomington, IN 47405
   Email: ardennis@indiana.edu
   Phone Number: +1 (812)-855-2691