

JIAHENG XIE

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ACADEMIC APPOINTMENT

2020 - **Lerner College of Business & Economics, University of Delaware**
Assistant Professor of Management Information Systems (Tenure-Track)
SWUFE-UD Joint Educational Institute (JEI) Research Fellow

EDUCATION

2015 - 2020 **Eller College of Management, The University of Arizona**
Ph.D. in Management Information Systems
Minor in Computational Linguistics
Certificate in College Teaching

2011 - 2015 **Renmin Business School, Renmin University**
B.A. in Management Science and Engineering (with Honor)

RESEARCH INTERESTS

Methods Deep Learning, Natural Language Processing, Multimodal Machine Learning
Topics Interpretable AI, Health Risk Analytics, Misinformation, IoT Sensors

RESEARCH GRANTS AND AWARDS

2022 SWUFE-UD Joint Educational Institute (JEI) Research Fellow
2021 Best Paper Award Winner, Workshop on Information Technologies and Systems (WITS)
2021 PI, "Understanding Health Misinformation Transmission: An Interpretable Deep Learning Approach to Manage Infodemics," \$15,000, General University Research (GUR) Grant, University of Delaware
2019 Doctoral Consortium Fellow, International Conference on Information Systems (ICIS)
2019 Doctoral Consortium Fellow, Americas Conference on Information Systems (AMCIS)
2019 James F. LaSalle Teaching Excellence Award, The University of Arizona
2019 Best Paper Award Runner-Up, International Conference for Smart Health (ICSH)
2019 Graduate and Professional Student Council Travel Grant (\$750)
2018 Doctoral Consortium Fellow (with \$500 Travel Grant), Conference on Health IT and Analytics (CHITA)

- 2018 Best Paper Award Runner-Up, International Conference for Smart Health (ICSH)
- 2015 Nunamaker-Chen MIS Doctoral Scholarship, The University of Arizona
- 2015 Graduated with Honors, Renmin University
- 2012 Renmin University Scholarship of Excellent Academic Performance

JOURNAL PUBLICATIONS

- Xie, J.**, Liu, X., Zeng, D., and Fang, X. (2022). Understanding Medication Nonadherence from Social Media: A Sentiment-Enriched Deep Learning Approach. *MIS Quarterly*, 46(1), 341-372.
- Best Paper Award Runner-Up, ICSH 2019
- Xie, J.**, Zhang, B., Ma, J., Zeng, D., and Lo-Ciganic, J. (2022) Readmission Prediction for Patients with Heterogeneous Medical History: A Trajectory-Based Deep Learning Approach. *ACM Transactions on Management Information Systems (TMIS)*, 14(2), 1-27.
- Best Paper Award Runner-Up, ICSH 2018
- Xie, J.**, Zhang, Z., Liu, X., and Zeng, D. (2021). Unveiling the Hidden Truth of Drug Addiction: A Social Media Approach Using Similarity Network-Based Deep Learning. *Journal of Management Information Systems (JMIS)*, 38(1), 166-195.
- Xie, J.**, Zhang, B., Brown, S., and Zeng, D. (2021). Write Like a Pro or an Amateur? Effect of Medical Language Formality. *ACM Transactions on Management Information Systems (TMIS)*, 12(3), 1-25.
- Xie, J.**, Liu, X., and Zeng, D. (2018). Mining E-cigarette Adverse Events in Social Media Using Bi-LSTM Recurrent Neural Network with Word Embedding Representation. *Journal of the American Medical Informatics Association (JAMIA)*, 25(1), 72-80.
- Xie, J.**, Zeng, D., and Marcum, Z. A. (2017). Using Deep Learning to Improve Medication Safety: The Untapped Potential of Social Media. *Therapeutic Advances in Drug Safety*, 8(12), 375-377.

CONFERENCE PROCEEDINGS AND WORKSHOPS (* PRESENTING AUTHOR)

- ***Xie, J.**, Chai, Y., and Liu, X. (2022). An Interpretable Deep Learning Approach to Understand Health Misinformation Transmission on YouTube. *Conference on Health IT and Analytics (CHITA) 2022*. Washington, D.C., USA.
- Xie, J.**, Chai, Y., and Liu, X. (2022). An Interpretable Deep Learning Approach to Understand Health Misinformation Transmission on YouTube. *Hawaii International Conference on System Sciences (HICSS) 2022*. Virtual.
- ***Xie, J.**, Chai, Y., and Liu, X. (2021). An Interpretable Deep Learning Approach to Understand Health Misinformation Transmission on YouTube. *Workshop on Information Technology and Systems (WITS) 2021*. Austin, USA.
- **Best Paper Award Winner**

- ***Xie, J.**, Chai, Y., and Liu, X. (2021). An Interpretable Deep Learning Approach to Understand Health Misinformation Transmission on YouTube. *INFORMS Workshop on Data Science 2021*. Virtual.
- ***Xie, J.**, Zhang, Z., Liu, X., and Zeng, D. (2019). Discovering Barriers to Opioid Addiction Treatment from Social Media: A Similarity Network-Based Deep Learning Approach. *International Conference on Information Systems (ICIS) 2019*. Munich, Germany.
- ***Xie, J.**, Liu, X., Zeng, D., and Fang, X. (2019). Understanding Medication Nonadherence from Social Media: A Sentiment-Enriched Deep Learning Approach. *Conference on Information Systems and Technology (CIST) 2019*. Seattle, USA.
- ***Xie, J.**, Zhang, Z., Liu, X., and Zeng, D. (2019). Discovering Barriers to Opioid Addiction Treatment Using Similarity Network-Based Deep Learning. *China Summer Workshop on Information Management (CSWIM) 2019*. Shenzhen, China.
- ***Xie, J.**, Liu, X., Zeng, D., and Fang, X. (2019). Understanding Medication Nonadherence Using Sentiment-Enriched Deep Learning. *China Summer Workshop on Information Management (CSWIM) 2019*. Shenzhen, China.
- ***Xie, J.**, Zhang, Z., Liu, X., and Zeng, D. (2019). Understanding Opioid Addiction with Similarity Network-Based Deep Learning. *International Conference for Smart Health (ICSH) 2019*. Shenzhen, China.
- ***Xie, J.**, Liu, X., Zeng, D., and Fang, X. (2019). Extracting Medication Nonadherence Reasons with Sentiment-Enriched Deep Learning. *International Conference for Smart Health (ICSH) 2019*. Shenzhen, China.
- **Best Paper Award Runner-Up**
- ***Xie, J.** and Zhang, B. (2018). Readmission Risk Prediction for Patients with Heterogeneous Hazard: A Trajectory-Aware Deep Learning Approach. *International Conference on Information Systems (ICIS) 2018*. San Francisco, USA.
- ***Xie, J.**, Zhang, B., and Zeng, D. (2018). Write Like a Pro or Amateur? The Effect of Online Caregiver Forum Writing Professionalism. *Conference on Information Systems and Technology (CIST) 2018*. Phoenix, USA.
- ***Xie, J.**, Liu, X., Zeng, D., and Fang, X. (2018). Discovering Medication Nonadherence Reasons with Sentiment-Enriched Deep Learning Approach. *INFORMS Workshop on Data Science 2018*. Phoenix, USA.
- ***Xie, J.**, Zhang, B., and Zeng, D. (2018). Predicting Hospital Readmission Risk Using Trajectory-Based Deep Learning Approach. *INFORMS Workshop on Data Science 2018*. Phoenix, USA.
- Xie, J.**, Zhang, B., and Zeng, D. (2018). Readmission Prediction Using Trajectory-Based Deep Learning Approach. *International Conference for Smart Health (ICSH) 2018*. Wuhan, China.
- **Best Paper Award Runner-Up**

- ***Xie, J.**, Zhang, B., and Zeng, D. (2018). Predicting Hospital Readmission Risk Using Trajectory-Based Deep Learning Approach. *Conference on Health IT and Analytics (CHITA)* 2018. Washington, D.C., USA.
- ***Xie, J.**, Liu, X., Zeng, D., and Fang, X. (2018). Discovering Medication Nonadherence Reasons with Sentiment-Enriched Deep Learning Approach. *Conference on Health IT and Analytics (CHITA)* 2018. Washington, D.C., USA.
- Xie, J.**, Zhang, B., and Zeng, D. (2018). Predicting Hospital Readmission with Deep Learning. *China Summer Workshop on Information Management (CSWIM)* 2018. Qingdao, China.
- ***Xie, J.**, Liu, X., Zeng, D., and Fang, X. (2017). Understanding Reasons for Medication Nonadherence: An Exploration in Social Media Using Sentiment-Enriched Deep Learning Approach. *International Conference on Information Systems (ICIS)* 2017. Seoul, South Korea.

INVITED TALKS

- 2022 Leeds School of Business, University of Colorado Boulder
- 2022 School of Management and Economics, Beijing Institute of Technology.
- 2022 NSF Workshop on the Future of Human-AI Frontier, American University.
- 2021 General University Research (GUR) Exchange, Research Office, University of Delaware.
- 2021 Lerner Faculty Teaching & Research Showcase, University of Delaware.
- 2020 Lerner College of Business & Economics, University of Delaware.
- 2019 Katz Graduate School of Business, University of Pittsburgh.
- 2019 McIntire School of Commerce, University of Virginia.
- 2019 Fox School of Business, Temple University.
- 2019 Center for Management Innovations in Healthcare, The University of Arizona.
- 2018 INFORMS Session: Using Long Short-Term Memory to Predict Hospital Readmission, Phoenix, USA.
- 2017 INFORMS Session: Understanding Reasons for Medication Nonadherence: An Exploration in Social Media Using Sentiment-Enriched Deep Learning Approach, Houston, USA.
- 2016 INFORMS Session: Mining E-cigarette Adverse Events in Social Media Using Bi-LSTM Recurrent Neural Network with Word Embedding Representation, Nashville, USA.
- 2015 Renmin Business School, Renmin University.

TEACHING EXPERIENCE

Instructor, University of Delaware

- MISY 436/667: Unstructured Data Analytics (Spring 2021, Spring 2022)
- MISY 432: MIS Capstone Projects (Spring 2021, Spring 2022)
- MISY 648: Business Intelligence and Analytics (JPMC Program, Fall 2022)

Instructor, The University of Arizona

- MIS 111: Computers & Internetworked Society (Summer 2018)
- Mini Course: Introduction to Data Science (Fall 2018)

Teaching Assistant and Guest Lecturer, The University of Arizona

- MIS 611A: Design Science Methodologies (Fall 2017, Fall 2016)
- MIS 507: Software Design and Integration (Fall 2016, Fall 2015)

PROFESSIONAL EXPERIENCE

2014 - 2015	Research Assistant, Renmin Business School, Renmin University
2014	Data Analyst, NetEase Inc. (NASDAQ: NTES), Beijing, China
2013	Data Analyst, Bank of China, Hunan, China
2013	Voluntary Math Teacher, Nairobi, Kenya
2012	Voluntary English Teacher, Luoyang, China

ACADEMIC SERVICES

Program Committee Member

- *INFORMS Workshop on Data Science (DS 2021)*
- *China Summer Workshop on Information Management (CSWIM 2021)*

Associate Editor

- *International Conference on Information Systems (ICIS 2023)*

Session Chair

- *INFORMS Annual Meeting (2018, 2017)*

Journal Reviewer

- *MIS Quarterly*
- *Information Systems Research*
- *Journal of Management Information Systems*
- *INFORMS Journal on Computing*
- *Nature Scientific Reports*
- *PLOS One*
- *ACM Transactions on Management Information Systems*
- *Information & Management*
- *IEEE Intelligent Systems*
- *Journal of Business Analytics*

Conference Reviewer

- *International Conference on Information Systems (ICIS 2022, 2021, 2020, 2019, 2016)*
- *Conference on Information Systems and Technology (CIST 2018)*
- *INFORMS Workshop on Data Science (2021, 2018)*

- *Hawaii International Conference on System Sciences (HICSS 2022)*
- *European Conference on Information Systems (ECIS 2018)*
- *Pacific-Asia Conference on Information Systems (PACIS 2020, 2019)*
- *China Summer Workshop on Information Management (CSWIM 2021, 2018)*
- *International Joint Conference on Artificial Intelligence (IJCAI 2016)*
- *International Conference on Computational Data and Social Networks (CSoNet 2020)*

Internal Service

- *Search Committee Member for Continuing Track Faculty, Lerner College of Business & Economics (2021)*
- *Search Committee Member for Instructor, Lerner College of Business and Economics (2021)*
- *Lerner Business Analytics Case Competition Faculty Judge (2022, 2021)*

STUDENT SUPERVISION

Doctoral Committee

- Swati Tyagi (University of Delaware)

AFFILIATIONS

Association for Information Systems (AIS)

The Institute for Operations Research and the Management Sciences (INFORMS)

Association for Computing Machinery (ACM)