

Lan Sang

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Education

University of Colorado Boulder Ph.D., Information Systems	Boulder, CO, United States May 2026 (<i>Expected</i>)
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Dissertation Topic: *Toward Trustworthy Health Information: Applying Fine-Tuned LLMs for Quality Assessment and Explanation*

Dissertation Committee: Dr. David G. Dobolyi (co-chair), Dr. Kai R. Larsen (co-chair), Dr. Jason B. Thatcher, Dr. Jeffrey Parsons, Dr. Brent Kitchens

University of Colorado Boulder M.S. in Computational Linguistics	Boulder, CO, United States May 2020
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Nanjing Normal University Bachelor of Business Administration & B.A. in French	Nanjing, China Jun. 2018
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Research Interests

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- Topic: IS Healthcare, IS Psychometrics, Social Media Analysis
 - Methodologies: Design Science, Natural Language Processing, Deep Learning, Machine Learning

Research Experience

Research Assistant Leeds School of Business, University of Colorado Boulder	Boulder, CO, United States Aug. 2021-Present
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Affiliated Researcher Data and Society Research Group, North Carolina State University	Raleigh, NC, United States Aug. 2024-Present
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Research Assistant Computational Language and Education Research Center, CU Boulder	Boulder, CO, United States May 2019-Jan. 2021
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Publications

Larsen, K., Muller, R., Parsons, J., Bonaretti, D., Burleson, J., Pillet, J. C., Fischer, D., Singh, N., Sang, L., & Zhang, D. (forthcoming). **The ITEM Ontology: A Tool to Elucidate the Anatomy of Psychometric Indicators**, *Information Systems Research*.

Kim, S. Y., Soderman, C., & Sang, L. (2025). **Sentiment analysis of solar energy in US Cities: a 10-year analysis using transformer-based deep learning**. *Journal of Computational Social Science*, 8(2), 1-26.

Working Papers

- Sang, L. & Dobolyi, D. Automated Information Quality Assessment of Health News**, Work in Progress. Targeted Journal: *MIS Quarterly*.
- Sang, L., Larsen, K., Gandhi, F., & Gefen, D. What Drives Semantic Predictability in Survey Responses? A Framework of Human, Linguistic, and AI-Driven Factors**, Work in Progress. Targeted Journal: *MIS Quarterly*.
- Larsen, K., Yan, S., Mueller, R., **Sang, L.**, & Starzl, R. **Nomological Validity: Integrating Measurement Across the Psychometric Science**, Under Review at *Science*

Peer-Reviewed Conference Proceedings

- Sang, L., & Dobolyi, D. (2025).** Toward Trustworthy Health Information: Automated Quality Assessment of Health News Using Fine-Tuned LLMs. Conditionally accepted at *the International Conference on Information Systems (ICIS)*.
- Sang, L., Larsen, K., & Gandhi, F. (2025).** Synthetic Construct Validity: A Transformational Solution. *In Proceedings of the 58th Hawaii International Conference on System Sciences*, Page 5355 – 5364
- Sang, L., Dobolyi, D., & Larsen, K. R. (2024).** Assessing Public Sentiment on AI-Generated Art Across the United States Using Deep Learning. *In Academy of Management Proceedings* (Vol. 2024, No. 1, p. 19516). Valhalla, NY 10595: Academy of Management

Conferences, Seminars, and Consortia

- Sang, L., & Dobolyi, D. (2025).** Toward Trustworthy Health Information: A Design Framework Using Fine-Tuned LLMs for Quality Assessment and Explanation. *Front Range IS Seminar (FRISS) 2025*, Fort Collins, USA
- Sang, L., Larsen, K., & Gandhi, F. (2025).** Synthetic Construct Validity: A Transformational Solution. *Hawaii International Conference on System Sciences (HICSS) 2025*. Hawaii, USA
- Larsen, K., Yan, S., Muller, R., **Sang, L.**, Edmondson, D., Rönkkö, M. (2025). AI-Powered Psychometrics: Unlocking Precision in Psychological Measurement, *International Objective Measurement Workshop (IOMW) 2025*, Colorado, USA
- Sang, L., Dobolyi, D., & Larsen, K. R. (2024).** Assessing Public Sentiment on AI-Generated Art Across the United States Using Deep Learning. *INFORMS 2024*. Seattle, USA
- Sang, L., Dobolyi, D., & Larsen, K. R. (2024).** Assessing Public Sentiment on AI-Generated Art Across the United States Using Deep Learning. *Academy of Management (AOM) 2024*. Chicago, USA
- Sang, L., Larsen, K., & Gandhi, F. (2024).** Synthetic Construct Validity: A Transformational Solution. *European Conference on Information Systems (ECIS) 2024*. Paphos, Cyprus
- Sang, L., Larsen, K., & Gandhi, F. (2024).** Synthetic Construct Validity: A Transformational Solution. *Front Range IS Seminar (FRISS) 2024*. Denver, USA

Teaching Interests

- Natural Language Processing
- Artificial Intelligence
- Python Programming
- Data Analytics
- Business Analytics

Teaching Experience

Instructor, BAIM 3220 Introduction to Python Programming Boulder, CO, United States
Leeds School of Business, University of Colorado Boulder *Aug. 2024-Dec. 2024*

- Python programming for business students

Instructor, BAIM 3200 Business Analytics Boulder, CO, United States
Leeds School of Business, University of Colorado Boulder *Jan. 2022-May 2022*

- Alteryx for business analytics, machine learning models
- Deemed teaching proficiency by the department

Teaching Assistant, BAIM 3200 Business Analytics Boulder, CO, United States
Leeds School of Business, University of Colorado Boulder *Aug. 2021-Dec. 2021*

Professional Experience

NLP Research Intern Boulder, CO, United States
Natural Language Understanding Team, Nuance Communications, Inc. *Jun. 2019-Aug. 2019*

Service

Reviewer

- Academy of Management Annual Conference (AOM 2024, 2025)
- European Conference on Information Systems (ECIS 2024)
- The International Conference on Information Systems (ICIS 2024, 2025)
- Hawaii International Conference on System Sciences (HICSS 2025, 2026)

Organizer

- Professional Development Workshop (PDW): “*Design Research on Artificial Intelligence: Challenges, Opportunities and Frontiers*”, Academy of Management (AOM) 2025. Denmark, Copenhagen

Awards and Honors

- AOM CTO Division Doctoral Consortium, 2025. Denmark, Copenhagen
- AMCIS Doctoral Consortium, 2025. Montreal, Canada
- Leeds School of Business Summer Hart Fellowship, 2024
 - Competitive doctoral fellowship supporting faculty-mentored research
- Leeds School of Business Summer Hart Fellowship, 2023
 - Competitive doctoral fellowship supporting faculty-mentored research
- International Conference on Design Science Research in Information Systems and

Technology (*DESRIST*) Doctoral Consortium, 2021. Virtually

Skills

Programming: Python | R | Java | SQL | JavaScript

Languages: English (Fluent) | Mandarin (Native) | French (Fluent)

Professional Memberships

Association for Information Systems (AIS)

Academy of Management (AOM)

Institute for Operations Research and the Management Sciences (INFORMS)

References

Kai R. Larsen

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David G. Dobolyi

Assistant Professor of Information Systems

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Jeffrey Parsons

Professor of Information Systems

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