

## Sen Yan

Leeds School of Business  
University of Colorado, Boulder

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## EDUCATION

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**Leeds School of Business, University of Colorado**, Boulder  
**Ph.D. Candidate** in Information Systems  
**Co-advised** by Kai R. Larsen and David Dobolyi

Boulder, CO, USA  
2021 – 2026 (Expected)

**Shanghai University of Finance and Economics**  
**B.S.** in Financial Management  
Minor in Computer Science

Shanghai, China  
2017 – 2021

## RESEARCH INTEREST

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Psychometric Methodology, Large Language Model Algorithms, Influencer Marketing, Digital Trust, Digital Learning, Generative AI Governance

## TEACHING INTEREST

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Python Programming, Cybersecurity, Data Analysis, Natural Language Processing, Statistic, Database

## PUBLICATION

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1. **Yan, S.**, Wang, Z., & Dobolyi, D. (2025). An explainable framework for assisting the detection of AI-generated textual content. *Decision Support Systems*, 114498.

## WORKING PAPER

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### Papers under review

1. Schöbel, S., Moritz, J., **Yan, S.**, Thatcher, J., & Söllner, M. *Nudges, generative AI, and prompt engineering: A Social Cognitive Theory approach to online training* (Manuscript under review, 2nd revision invited at *MIS Quarterly*).
2. Larsen, K., **Yan, S.**, Mueller, R., Sang, L., Starzl, R., & Rönkkö, M., *ALIGNs: Unlocking nomological networks in psychological measurement through a large language model* (Under review at *Nature Human Behaviour*).
3. Shiue, C., Keller, W., & **Yan, S.**, *Mining Chinese historical sources at scale: A machine learning approach to Qing state capacity* (Manuscript under review, 2nd round at *Historical Methods*; also available as NBER Working Paper).
4. Cui, X., **Yan, S.**, Ding, M., Zhu, M., & Deng, Q. *Globally automated detection of lunar maria and impact melts using deep learning* (Manuscript under review).

### Papers in preparation for submission

1. **Yan, S.**, Larsen, K., & Li, J., *OntoLLM: A Holistic Ontology-Infused LLM for Behavioral Research Workflows* (Manuscript in preparation, Target: *MIS Quarterly*).

2. **Yan, S.**, Larsen, K., & Lukyanenko, R., *Integrating LLMs and psychometrics: Global construct validity* (Manuscript in preparation, Target: *MIS Quarterly*).
3. Dobolyi, D., & **Yan, S.**, *Tri-model deep learning for sponsor content detection* (Draft writing, Target: *MIS Quarterly*).
4. Chen, P., Shiue, C., Keller, W., & **Yan, S.**, *Text to data: A machine learning approach to historical Chinese documents* (Manuscript in preparation, Target: *Research Policy*).
5. Larsen, K., Mueller, R. M., Handler, A., **Yan, S.**, & Huettemann, S., *ISReCon: An ontological approach to discovering research conversations in IS* (Model development, Target: *MIS Quarterly*).

## CONFERENCE PROCEEDING & PRESENTATION

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1. **Yan, S.**, Larsen, K., & Li, J., *OntoLLM: A Holistic Ontology-Infused LLM for Behavioral Research Workflows* Paper accepted to present at the INFORMS Workshop on Data Science (WDS 2025), Atlanta, GA.
2. Larsen, K. R., & **Yan, S.** (2024). *Integrating LLMs and psychometrics: Global construct validity*. Paper presented at the International Conference on Information Systems (ICIS 2024), Bangkok, Thailand.
3. Larsen, K. R., & **Yan, S.** (2024). *Integrating LLMs and psychometrics: Global construct validity*. Paper presented at the INFORMS Annual Meeting 2024, Seattle, WA.
4. Larsen, K. R., & **Yan, S.** (2024). *Is behavioral cross-sectional information systems research just linguistic manipulation?* Provocation presented at the 32nd European Conference on Information Systems (ECIS 2024), Paphos, Cyprus.
5. Shiue, C., Keller, W., & **Yan, S.** (2024). *Mining Chinese historical sources at scale: A machine learning approach to Qing state capacity*. Paper presented at the CEPR Economic History Annual Symposium 2024, Dublin, Ireland.
6. **Yan, S.**, Wang, Z., & Dobolyi, D. (2023). *A design framework for detecting and understanding AI-generated texts: Fusing transformers and linguistic features*. Paper presented at the INFORMS Annual Meeting 2023, Phoenix, AZ.
7. **Yan, S.**, Wang, Z., & Dobolyi, D. (2023). *A design framework for detecting and understanding AI-generated texts: Fusing transformers and linguistic features*. Paper presented at the INFORMS Workshop on Data Science (WDS 2023), Phoenix, AZ.
8. Mueller, R. M., Huettemann, S., Larsen, K. R., **Yan, S.**, & Handler, A. (2022). *Toward an information systems ontology*. In *Proceedings of the 17th International Conference on Design Science Research in Information Systems and Technology (DESIST 2022)*, Tampa, FL.
9. Cui, W., & **Yan, S.** (2021). *Isotonic data augmentation for knowledge distillation*. In *Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI 2021)*. Virtual.
10. **Yan, S.**, Yang, B., & Hui, F. (2020). *UnitedANT: A multimodal deep learning framework for predicting financial risk from acoustic, numeric, and textual cues in earnings conference calls*. In *Proceedings of the 30th Workshop on Information Technologies and Systems (WITS 2020)*. Virtual.

## TEACHING EXPERIENCE

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- **Instructor**, 2025 Spring, Introduction to Python (BAIM3220) at CU Boulder
- **Instructor**, 2022 Spring, Business Analytics (BAIM3200/MKGT3201) at CU Boulder
- **Teaching Assistant**, 2021 Fall, Business Analytics (BAIM3200/MKGT3201) at CU Boulder
- **Teaching Assistant**, 2020 Fall, Natural Language Processing at Shanghai U. of Finance and Economics
- **Teaching Assistant**, 2020 Spring, Natural Language Processing at Shanghai U. of Finance and Economics

## HONOR

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- INFORMS ISS 2025 Doctoral Consortium
- AMCIS 2025 Doctoral Consortium

- GPSG Travel Grant at Fall 2024 (\$500, support graduate students to attend academic conference, provided by CU Boulder)
- Summer Hart Fellowship 2023 (\$3000, support Ph.D. students to work on their research projects, provided by Leeds School of Business)
- Summer Hart Fellowship 2022 (\$3000, support Ph.D. students to work on their research projects, provided by Leeds School of Business)
- DESRIST 2022, Doctoral Consortium
- Honor Degree, Shanghai University of Finance and Economics

## **SERVICE**

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- Reviewer for conference: International Conference on Information Systems (ICIS), Workshop on Information Technologies and Systems (WITS), Hawaii International Conference on System Sciences (HICSS), Pacific Asia Conference on Information Systems (PACIS)

## **SKILL**

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- Programs: Python (master), PyTorch Framework (master), Linux Shell, Java, C++, Javascript, SQL
- Languages: Chinese (native), English (fluent)