Sen Yan
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EDUCATION

Leeds School of Business, University of Colorado, Boulder — Boulder, CO, USA
Ph.D. Candidate in Information Systems — 2021 – 2026 (Expected)

Shanghai University of Finance and Economics — Shanghai, China
B.S. in Financial Management — 2017 – 2021
Minor in Computer Science
Graduate with Honor Degree

PROFESSIONAL EXPERIENCE

2023 - Present	**Research Assistant**, in University of Colorado, Boulder
2022	**Instructor**, in University of Colorado, Boulder
2021	**Undergraduate Teaching Assistant**, in University of Colorado, Boulder
2019 – 2021	**Undergraduate Research Assistant**, in Shanghai University of Finance and Economics
2020 - 2021	**Undergraduate Teaching Assistant**, in Shanghai University of Finance and Economics

RESEARCH INTEREST

Cybersecurity, Psychometric Methodology, Sponsor Disclosure, Large Language Model Algorithms, Generative AI Governance

TEACHING INTEREST

Python Programming, Deep Learning, Natural Language Processing, Database

WORKING PAPER

1. **Sen Yan**, Zhiyi Wang and David Dobolyi. An Explainable Framework for Assisting the Detection of AI-Generated Textual Content. Under Review
2. Carol Shiue, Wolfgang Keller and **Sen Yan**. Mining Chinese Historical Sources at Scale: A Machine Learning-Approach to Qing State Capacity. Under Review; NBER Working Paper
3. **Sen Yan**, Kai Larsen, Roman Lukyanenko and Mikko Rönkkö. Integrating LLMs and Psychometrics: Global Construct Validity. Currently drafting manuscript
4. Kai Larsen, **Sen Yan**, Roland Muller, Lan Sang, Ravi Starzl, and Wynne Chin. Universal Construct Validity. Currently drafting manuscript
5. David Dobolyi and **Sen Yan**. Tri-Model Deep Learning for Sponsor Content Detection. Currently working on developing algorithms
6. Kai Larsen, Roland M. Mueller, Abram Handler, **Sen Yan** and Sebastian Huettemann. ISReCon: An Ontological Approach to Discovering Research Conversations in IS. Currently working on developing algorithms
7. Xingli Cui, **Sen Yan**, Min Ding, Menghua Zhu, and Qi Deng. Globally Automated Detection of Lunar Maria and Impact Melts Using Deep Learning. Under Review

CONFERENCE PROCEEDING & PRESENTATION

1. Larsen Kai R. & **Yan S.** (2024). Integrating LLMs and Psychometrics: Global Construct Validity. In the 2024 The International Conference on Information Systems (ICIS 2024), Bangkok, Thailand (Expected)
2. Larsen Kai R. & **Yan S.** (2024). Integrating LLMs and Psychometrics: Global Construct Validity. In the 2024 INFORMS Annual Meeting, Seattle, Washington (Expected)
3. Larsen Kai R. & **Yan S.** (2024). Is Behavioral Cross-Sectional Information Systems Research Just Linguistic Manipulation? Provocation in the 32nd European Conference on Information Systems (ECIS-2024), Paphos, Cyprus
4. Shiue C., Keller W., & **Yan S.** (2024). Mining Chinese Historical Sources at Scale: A Machine Learning-Approach to Qing State Capacity. In the CEPR Economic History Annual Symposium 2024, Dublin, Ireland
5. **Yan S.**, Wang Z. & Dobolyi D. (2023) A Design Framework for Detecting and Understanding AI-Generated Texts: Fusing Transformers and Linguistic Features. In the 2023 INFORMS Annual Meeting, Phoenix, AZ
6. **Yan S.**, Wang Z. & Dobolyi D. (2023) A Design Framework for Detecting and Understanding AI-Generated Texts: Fusing Transformers and Linguistic Features. In the 2023 INFORMS Workshop on Data Science (WDS-2023), Phoenix, AZ
7. Mueller, Roland M., Huettemann, S., Larsen, Kai R., **Yan, S.**, and Handler, A. (2022). Toward an Information Systems Ontology. Proceedings of 17th International Conference on Design Science Research in Information Systems and Technology (DESRIST-2022), Tampa, FL
8. Cui, W., & **Yan, S.** (2021). Isotonic data augmentation for knowledge distillation. Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI-2021), Virtual
9. **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. Proeedings of the 30th Workshop on Information Technologies and Systems (WITS-2020), Virtual

TEACHING EXPERIENCE

- **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

- Summer Hart Fellowship 2023 ($3000)
- Summer Hart Fellowship 2022 ($3000)
- DESRIST 2022, Doctoral Consortium
- Honor Degree, Shanghai University of Finance and Economics

SKILL

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