

Hui Shi

College of Education, Health, and Human Sciences

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Expected starting date of employment: After July 10, 2025

EDUCATION

- Ph.D. **Florida State University** (Expected July 2025)
Instructional Systems and Learning Technologies
Dissertation: Promoting successful online ill-structured problem-solving: The effects of a five-stage collaborative learning framework with metacognitive scaffolding
Committee: Vanessa Dennen (Chair & Advisor), Secil Caskurlu, Bret Staudt Willet, Stacey Rutledge
- M.S. **East China Normal University** (2021)
Educational Information Technology
- Visiting **Auburn University** (2020)
Education Psychology
- B.S. **Jiangnan University** (2018)
Education Technology

RESEARCH INTERESTS

- Collaborative Problem-solving
- Knowledge Building
- AI-Human Collaboration/Interaction
- Educational Data Mining and Learning Analytics
- Online Learning/Teaching
- Google Scholar Personal Profile:
<https://scholar.google.com/citations?user=laSfCbIAAAAJ&hl=en>

PUBLICATIONS

Peer-reviewed Journal Articles

- Shi, H.**, Caskurlu, S., Zhang, N., & Na, H (2024). To What Extent Has Machine Learning Achieved in Predicting Online At-Risk Students? Evidence From Quantitative Meta-analysis. *Journal of Research on Technology in Education*, 1–20.
<https://doi.org/10.1080/15391523.2024.2437741> [SSCI, Impact Factor: 4.5]
- Shi, H.**, Zhou, Y., Dennen, V. P., & Hur, J. (2024). From unsuccessful to successful learning: profiling behavior patterns and student clusters in Massive Open Online Courses.

- Education and Information Technologies*, 29(5), 5509-5540.
<https://doi.org/10.1007/s10639-023-12010-1> [SSCI, Impact Factor: 4.8]
- Shi, H.**, Hur, J., Tang, Y. M., & Dennen V. P. (2023). Instructional strategies for engaging online learners: Do learner-centeredness and modality matter? *Online Learning*, 27(4), 271-294.
<https://doi.org/10.24059/olj.v27i4.4038> [ESCI, Impact Factor: 2.8]
- Na, H., Staudt Willet, K. B., **Shi, H.**, Hur, J., He, D., & Kim, C. (2024). Initial discussions of ChatGPT in education-related subreddits. *Journal of Research on Technology in Education*, 1-18. <https://doi.org/10.1080/15391523.2024.2338091> [SSCI, Impact Factor: 4.5]
- Dennen, V. P., He, D., **Shi, H.**, & Adolfson, D. (2023). College students, networked knowledge activities, and digital competence: Implications for online instructors. *Online Learning*, 27(4), 122-143. <https://doi.org/10.24059/olj.v27i4.4046> [ESCI, Impact Factor: 2.8]
- Dennen, V. P., **Shi, H.**, Rutledge, S. A., Bagdy, L. M., Jung, D., Bunn, S., Cargill, C., Cosgrove, C., & Hedquist, A. (2022). Parenting Teenage Social Media Users: Perceptions and Permissions as the Pandemic Began. *IADIS International Journal on WWW/Internet*, 20(2), 80-98. <http://www.iadisportal.org/ijwi/>
- Lin, X., Dai, Y., **Shi, H.** (2022). Comparing the sense of online classroom community between students from urban and rural areas at a Chinese university. *Journal of Educators Online*, 19(3). <https://doi.org/10.9743/JEO.2022.19.3.9>
- Lin, X., Dai, Y., **Shi, H.**, & Li, C. (2020). E-learners' Satisfaction as Predictors of Online Classroom Community. *Journal of Contemporary Education Theory & Research*, 4(2) 12-19. <https://zenodo.org/record/4256511>
- Peer-reviewed Conference Proceedings**
- Shi, H.** & Wei, S. (2024). "We Appreciate That Reviewers Pointed Out This": Exploring Knowledge Co-construction in the Process of Peer Review. In Lindgren, R., Asino, T. I., Kyza, E. A., Looi, C. K., Keifert, D. T., & Suárez, E. (Eds.), *Proceedings of the 18th International Conference of the Learning Sciences - ICLS 2024* (pp. 2411-2412). International Society of the Learning Sciences. <https://doi.org/10.22318/icls2024.366216> [Approximate Acceptance Rate: 24%].
- Shi, H.**, & Zhou, Y. (2023). Stay or Leave? Exploring Student Factors Associated with Dropout Patterns in Massive Open Online Courses. In M. Chang, N. S. Chen, R. Kuo, G. Rudolph, D. G. Sampson & A. Tlili (Eds.) *Proceedings of the 2023 IEEE International Conference on Advanced Learning Technologies (ICALT)* (pp. 26-30). Orem, UT, USA.
<https://doi.org/10.1109/ICALT58122.2023.00013> [ranked as the 2nd by saliency in Educational Technology area]
- Dennen, V. P., He, D., **Shi, H.**, & Adolfson, D. (2023). Conceptualizing networked knowledge activities: Related and co-occurring activities in online spaces. In P. Kommers, I. A. Sanchez, & P. Isaias (Eds.), *Proceedings of the International Conferences on E-Society 2023 and Mobile Learning 2023* (pp. 179-186). IADIS Press.
- Dennen, V. P., **Shi, H.**, Rutledge, S. A., Bagdy, L. M., Jung, D., Bunn, S., Cargill, C., Cosgrove, C., & Hedquist, A. (2022). Teen social media use during COVID-19: Parent perceptions and oversight. In P. Kommers, I. A. Sánchez, & P. Isaias (Eds.), *Proceedings of the*

International Conferences e-Society 2022 and Mobile Learning 2022 (pp. 155-162).
IADIS Press.

Peer-reviewed Manuscripts Under Review

Shi, H., Zhang, N., Caskurlu, S., & Na, H. (Major Revision). Applications of Machine Learning for At-Risk Student Prediction in Online Education: A Ten-Year Systematic Review of Literature. *Journal of Computer-Assisted Learning* (SSCI 一区, 影响因子:5.1).

Shi, H., Bi, R., Lin, X., & Dai, Y. (under review). Decreasing Digital Distraction in College Students: Associated Online Learning Strategies Identified by Unsupervised Data Mining Approach. *The Internet and Higher Education* (SSCI 一区, 影响因子:6.4).

Caskurlu, S., Yalcin, Y., Hur, J., **Shi, H.**, & Klein, J. (Major Revision). Data-Informed Decision Making in Instructional Design: Instructional Designers' Practices and Strategies. *TechTrends*. [SSCI, Impact Factor: 2.2]

Zhang, N., Barrett, A., & **Shi, H.** (under review). A Systematic Review of Computational Thinking Disposition: Definitions, Assessments, Roles, and Pedagogical Approaches. *Computers & Education* (SSCI 一区, 影响因子:8.9)

TEACHING EXPERIENCE

2024 Spring and Fall **Course Instructor.** Independently teach a weekly 3-credit hour undergraduate course (EME2040 Introduction of Education Technology, 17 students on average). Co-design and develop weekly course activities and assignments. This course aims to provide pre-service teachers with an opportunity to achieve competency in using educational technology for planning and delivering instruction. College of Education, Florida State University.

2023 Spring and Fall **Teaching Assistant.** Support teaching Live, Play, Communicate, and Learn with Theories of Learning and Cognition in Instruction. Co-design the course and teach multiple segments within the course, College of Education, Florida State University.

2021-2022 **Teaching Assistant.** Support teaching Live, Play, Communicate, and Learn with Advanced Instructional Design & Development. Co-design the course and grading within the course, College of Education, Florida State University.

EMPLOYMENT

2025-Now **Graduate Research Assistant.** Research project - Simulated Practicum for Equity and Social Justice Principal Preparation to Address Opportunity Gaps in K-12 Schools (Grant from the Florida State University Seed Fund, PI: Vanessa Dennen, PI: Daniel Moraguez). Develop and evaluate an AI-supported simulation environment designed to cultivate future educational leaders. The

- project is based on a 3D virtual interactive simulation environment where participants collaborate with avatars to analyze and solve problems related to justice, equity, diversity, and inclusion. The research will evaluate how participants engage in knowledge construction and application within a leadership context focused on equity through interactions with the AI system.
- 2023-2024 **Graduate Research Assistant.** Research project - FSU CHOOSE: Collaborative Hub for Outreach and Opportunities in STEM Education (\$97,521.20 grant from the Florida State University Seed Fund, PI: Vanessa Dennen). Develop a strategic plan with the assistance of two key groups: FSU faculty and staff engaged in STEM outreach, and STEM educators from North Florida's K-12 schools and communities. Develop two white papers describing the challenges and opportunities these groups face in collaborating, funding, and scaling STEM outreach.
- 2019-2020 **Internship.** Research and Instructional Design on engineering education in K-12 schools. Teaching STEM courses in high school classes (40 students). MFE Education Corporation, Shanghai

AWARDS & HONORS

- 2025 Best Student Paper Scholarship (\$200), 2025 AERA International Conference SIG Instructional Technology.
- 2024 College of Education, Health, And Human Sciences Showcase Research Funding (\$2,000), Florida State University.
- 2023 IEEE TCLT Student Award (\$300), The 23rd IEEE International Conference on Advanced Learning Technologies (ICALT).
- 2023 AERA Annual Meeting Graduate Student Assistance Fund (\$500), 2023 AERA International Convention.
- 2022 Outstanding Paper Award at the 20th International Conference on e-Society.
- 2020 Poster Presentation Awards on Visual Presentation at the 69th AAACE Conference.
- 2020 ECNU Scholarship Program for Graduate Students——Short-term overseas research scholarship (\$6,000), East China Normal University.

PROFESSIONAL SERVICE

Journal Review

Peer reviewer, *The Internet and Higher Education* (SSCI journal)

Peer reviewer, *Education and Information Technologies* (SSCI journal)

Peer reviewer, *Online Learning* (ESCI journal)

Conference Review

Peer reviewer, *International Society of the Learning Sciences (ISLS)*

Peer reviewer, *American Educational Research Association (AERA)*

Peer reviewer, *Association for Educational Communications and Technology (AECT)*

Peer reviewer, *International Conference on Computers in Education (ICCE)*

REFEREES

Vanessa Dennen, Professor, Florida State University, vdennen@fsu.edu

Secil Caskurlu, Assistant Professor, Florida State University, scaskurlu@fsu.edu

Kadir Kozan, Assistant Professor, Florida State University, kkozan@fsu.edu