

Zifeng (Lauren) Liu

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EDUCATION

University of Florida Gainesville, FL, USA *Ph.D. in Curriculum and Instruction specializing in Educational Technology Sep. 2023 – present*

- Advisor: Dr. Wanli Xing
 - Cumulative GPA: 3.95/4.0
 - Research Assistant (Full tuition & stipends): 2023 ~
 - Doctoral Dissertation Committee: Dr. Wanli Xing, Dr. Maya Israel, Dr. Anthony Botelho, and Dr. Corinne Manley

Beijing Normal University, Beijing, China *Master of Computer Software and Theories Sep. 2020 – May. 2023*

- Advisor: Dr. Su Cai
 - Cumulative GPA: 3.70/4.0
 - First Prize of Excellent graduate Student Scholarship (2020-2021, 2021-2022)
 - Outstanding Freshman Scholarship (2020)
 - Excellent Individual of Summer Volunteer Teaching Program of BNU (2022)
 - Master's thesis: *Facial expression recognition and application based on contrastive learning and visual attention*

Beijing Technology and Business University, Beijing, China *Bachelor of Computer Science Sep. 2016 – May. 2020*

- Advisor: Dr. Zhongming Han and Dr. Yi Chen
 - Cumulative GPA: 4.27/5.0 (Ranked number 1 among 58 students)
 - Excellent Graduate of Beijing (2020)
 - National Scholarship of China (2018-2019)
 - Headmaster Scholarship of BTBU (2018-2019)
 - Outstanding Student Scholarship of BTBU (2018,2019)
 - Student LeaderShip Award of BTBU (2017-2018)
 - National Scholarship for Encouragement of China (2016-2017, 2017-2018)

RESEARCH INTERESTS

- AI/Computer Science Education
- Educational Data Mining/Learning Analytics
- STEM-integrated Computing Education

CURRENT RESEARCH EXPERIENCE

AI Across the Curriculum for Virtual Schools Aug. 2024 - present

(Funded by DOE EIR #S411C230070, \$3,999,322; PI: Dr. Jie Chao (Concord), Co-PI: Dr. Wanli Xing)

- Led Research about how to use GenAI support pedagogical multi-choice questions distractor and feedback generation.
- Led Research about student learning profile when interacting with online AI learning modules.
- Design the AI-integrated math curriculum in virtual learning environments for high school students.
- Create the learning objectives and activities aligning with the AI big ideas and math standards.
- Design the user interface for virtual learning environments and conduct user testing.

Using Flow-Based Music Programming to Engage Children in Computer Science

(Funded by NSF iTEST # 2241715, \$1,227,507; PI: Dr. Wanli Xing) **FL,CA, USA** *Researcher Sep. 2023 – present*

- Led the flow-based music programming platform Mflow development.

- Led the design and development of instruments for teachers and students.
- Led the professional development interviews for 3 elementary school teachers.
- Contributed to the 2024 Spring classroom study to examine the efficacy of Mflow platform and the curriculum.

eSPAC3: A Culturally Relevant Approach to Spatial Computational Thinking Skills and Career Awareness through an Immersive Virtual Environment

(Funded by NSF iTEST, \$227,619. PI: Dr. Wanli Xing) *Researcher* Sep. 2023 – *present*

- Led the design and development of survey instruments targeting peer mentors, parents, and students.
- Conducted analysis of pre- and post-survey data assessing Spatial Computational Thinking and self-efficacy.

ALTER-Math : AI-augmented Learning by Teaching to Enhance and Renovate Math Learning

(Funded by Learning Engineering Virtual Institute (LEVI), Schmidt Future Foundation, PI: Dr. Wanli Xing)

FL, USA *Researcher* Oct. 2023 – *present*

- Contributed to the classroom study to examine the efficacy of the ALTAR-Math in P.K.Yonge research school.
- Contributed to the log data analysis on how students interact with the AI teachable agent.

A Logic Programming Approach to Integrate Computing with Middle School Science Education

(Funded by NSF: #1901704, \$421,755; PI: Dr. Yuanlin Zhang, Co-PI: Dr. Wanli Xing)

FL, USA *Researcher* Apr. 2024 – *Apr. 2025*

- Analyzing students learning log data using entropy analysis and connecting it with student performance.

ML4Math: Integrating Machine Learning and Mathematics Education Using a Concreteness Fading Approach

(Funded by ONR: #N00014-23-S-F001 , \$600,000 ; PI: Dr. Wanli Xing)

FL, USA *Researcher* Apr. 2024 – *Apr. 2025*

- Assisting classroom implementation and data collection.

Innovating Quantum-Inspired Learning for Undergraduates in Research and Engineering (INQUIRE)

(Funded by NSF IUSE program #2142552, \$1,250,000, PI: Dr. Gloria Kim, Co-PI: Dr. Wanli Xing)

Researcher Nov. 2023 — *Apr. 2025*

- Led the efficacy research on Spin-Qubit Lab (a simulation-based tool) in the University of Florida.

A Student-centered Interactive Mathematical Learning and Creation Platform powered by AI

(Funded by Department of Education #91990023 C0022, \$4,000,000, PI: Dr. Wanli Xing)

FL, CA, USA *Researcher* Apr. 2024 – *Apr. 2025*

- Contributed to the organization of a classroom study to examine the initial efficacy of the ART-Math platform.
- Contributed to usability interviews for about 20 elementary school teachers and five teachers across the US.

SELECTED PUBLICATIONS

JOURNAL PUBLICATIONS

- **Liu, Z.**, Xing, W., Jiang, Y. et al. Leveraging contrastive learning to improve group and individual fairness in predictive analytics for online learning. *Journal of Computing in Higher Education* (2025). <https://doi.org/10.1007/s12528-025-09468-y>
- **Liu, Z.**, Xing, W., Jiao, X., & Li, C. (2025). Exploring Fairness and Explainability in LLM-Generated Support for Online Learning Discussion Forums. *Journal of Learning Analytics*, 1-26. <https://doi.org/10.18608/jla.2025.8885>
- **Liu, Z.**, Xing, W., Li, C., Zhang, F., Li, H., & Minces, V. (2025). Exploring Automated Assessment of Primary Students' Creativity in a Flow-Based Music Programming Environment. *Journal of Learning Analytics*, 12(2), 83-104. <https://doi.org/10.18608/jla.2025.8835>.
- **Liu, Z.**, Xing, W., Jiao, X. et al. What are the differences between student and ChatGPT-generated pseudocode? Detecting AI-generated pseudocode in high school programming using explainable machine learning. *Education*

and Information Technologies (2025). <https://doi.org/10.1007/s10639-025-13385-z>.

- **Liu, Z.**, Xing, W., Ngo, B., Jiao, X., Jiang, S., & Li, C. (in press). *Engagement patterns of struggling students with AI teachable agents in mathematics learning*. *Scientific Reports*.
- Song, Y., Kim, J., **Liu, Z.**, Li, C., & Xing, W. (2025). Students' perceived roles, opportunities, and challenges of a generative AI-powered teachable agent: a case of middle school math class. *Journal of Research on Technology in Education*, 1–19. <https://doi.org/10.1080/15391523.2024.2447727>.
- Xing, W., Song, Y., Li, C., **Liu, Z.**, Zhu, W., Oh, H. (2025). Development of a generative AI-powered teachable agent for middle school mathematics learning: a design-based research study. *British Journal of Educational Technology*. 2043-2077. <https://doi.org/10.1111/bjet.13586>
- Song, Y., Kim, J., Xing, W., **Liu, Z.**, Li, C., & Oh, H. (2025). Elementary school students' and teachers' perceptions toward creative mathematical writing with Generative AI. *Journal of Research on Technology in Education*, 1–23. <https://doi.org/10.1080/15391523.2025.2455057>.
- Xing, W., Fang, Z., Zhang, H., Kamiyama, T., **Liu, Z.**, & Kim, T. (2025). Making the 'mathematics register' accessible to students: an exploratory study of two teachers' discourse in an online lesson on polynomial expressions. *Language and Education*, 1–24. <https://doi.org/10.1080/09500782.2025.2542861>
- Li, H., Xing, W., Zhu, W., Zhang, S., & **Liu, Z.** (2025). Should educational AI models include gender attribute? Explaining the why based on environmental psychology course with gender imbalance. *Journal of Computing in Higher Education*. <https://doi.org/10.1007/s12528-025-09467-z>
- Zhu, W., Xing, W., Kim, E. M., Li, C., Wang, Y., Yang, Y., & **Liu, Z.** (2025). Integrating image-generative AI into conceptual design in computer-aided design education: Exploring student perceptions, prompt behaviors, and artifact creativity. *Educational Technology & Society*, 28(3), 166-183. [https://doi.org/10.30191/ETS.202507_28\(3\).SP11](https://doi.org/10.30191/ETS.202507_28(3).SP11).
- Cai, S., **Liu, Z.**, Liu, C., & others. (2022). Effects of a BCI-based AR inquiring tool on primary students' science learning: A quasi-experimental field study. *Journal of Science Education and Technology*, 31, 767–782. <https://doi.org/10.1007/s10956-022-09991-y>.
- Liu, E., Cai, S., **Liu, Z.**, & Liu, C. (2023). WebART: Web-based augmented reality learning resources authoring tool and its user experience study among teachers. *IEEE Transactions on Learning Technologies*, 16(1), 53–65. <https://doi.org/10.1109/TLT.2022.3214854>.

UNDER REVIEW WORK

- **Liu, Z.**, Cheon, S., Stanbury, A., Jiao, X., Xing, W., & Kang, H. (under Review). *Towards contextual-based AI: A scoping review of artificial intelligence in X reality for personalized learning* [Manuscript submitted for publication]. *Computers and Education: Artificial Intelligence*.
- **Liu, Z.**, Xing, W., Monteith, B., Pei, B., & Zhang, Y. (under Review). Engaging secondary students in data science learning through a mathematical logic approach: Insights from surveys and log data. Manuscript submitted for publication to *ACM Transactions on Computing Education*.
- Xing, W., **Liu, Z.**, Song, Y., & Kim, T. (under revision). Why do students leave instructional videos: understanding students' in-video dropout behavior in a large online math learning platform? Manuscript submitted for publication to *Distance Education*.
- Xing, W., Song, Y., **Liu, Z.**, Du, H., Zhu, W., & Li, C. (under revision). Investigating Expert and Peer Tutoring Behaviors in a Large Online Discussion Forum Using Temporal Dynamic Analytics. Manuscript submitted for publication to *Journal of Learning Analytics*.
- Jiao, X., **Liu, Z.**, Enhancing Collaboration in AR-based Inquiry: Effects of Structured Collaborative Scripts on Students' Performance and Group Dynamics. Manuscript submitted for publication to *Journal of Science Education and Technology*.
- Owoputi, R., Kwok, A., **Liu, Z.**, Zhu, W., Xing, W., & Ray, S. (under review). Immersive virtual environment for automotive security education. Manuscript submitted for publication to *IEEE Transactions on Education*.

PUBLISHED CONFERENCE PROCEEDINGS

- Du, H., **Liu, Z.**, Xing, W., & Zhang, Y. (2025, November 22–24). A logic-programming-based CS professional development for secondary teachers. Paper accepted for presentation at the 14th International Conference on

Educational Innovation through Technology (EITT 2025), Tokyo City University, Yokohama, Japan.

- Li, H., Xing, W., Li, C., & **Liu, Z** (in press). (2025, December) Regularizing chart-specialized vision-language models for K-12 hand-drawn math VQA: Performance and representation effects. In Proceedings of the 14th International Conference on Computational Data and Social Networks (CSoNet).
- **Liu, Z.**, Ganapathy Prasad, P., Ngo, B., Jiao, X., & Xing, W. (2025). *A human–AI collaborative assessment of AI-generated vs. human-created MCQ distractors*. In Proceedings of the 29th International Conference on Computers in Education (ICCE 2025), Chennai, India.
- Kim, T., **Liu, Z.**, Xing, W., Li, H., & Oh, H. (2025, June). Emotional dynamics in asynchronous math discussions: Analyzing the impact of negative emotions on learning outcomes. In *Proceedings of the 2025 International Conference of the Learning Sciences (ICLS 2025)*. International Society of the Learning Sciences (ISLS). June 10–13, Finland.
- Li, H., Xing, W., Zhu, W., Li, C., Lyu, B., **Liu, Z.**, & Heffernan, N. (accepted). Leveraging multi-modality and collaborative filtering for supporting automatic scoring in mathematics education. Proceedings of the 26th International Conference on Artificial Intelligence in Education.
- Li, H., Xing, W., Lyu, B., Zhu, W., **Liu, Z.**, & Li, H. (accepted). An automated aesthetic assessment framework of mathematical story images validated by click counts. In Proceedings of the 18th ACM Conference on Learning@ Scale.
- Jiao, X., Huang, H., **Liu, Z.**, Cai, S., & Fan, Z. (2025). Beyond the screen: Enhancing augmented reality collaborative inquiry with social scripts. Proceedings of the 25th IEEE International Conference on Advanced Learning Technologies (ICALT 2025), Changhua, Taiwan. IEEE. **[Best Full Paper Award]**
- **Liu, Z.**, Song, Y., Yang, Q., Xing, W., & Guo, J. (2025, June). Exploring the Impact of a Simulation-Based Learning Tool on Undergraduate Quantum Computing Education. In *2025 ASEE Annual Conference & Exposition*.
- **Liu, Z.**, Zhang, S., Xing, W., Minces, V., Israel, & Barron, A. (2025, June). A NSF ITEST Program: Integrating Music and Flow-Based Programming Builds Teachers' Confidence in Computer Science. In *2025 ASEE Annual Conference & Exposition*.
- **Liu, Z.**, Xing, W., Zhang, F., & Li, C. (2025, March). A visual programming approach to enhance spatial computational thinking skills in upper-elementary students [Poster presentation]. The 15th International Learning Analytics & Knowledge Conference, Dublin, Ireland.
- Oh, H., **Liu, Z.**, & Xing, W. (2025). Do actions speak louder than words? Unveiling linguistic patterns in online learning communities using cross recurrence quantification analysis. In *Proceedings of the 15th International Conference on Learning Analytics and Knowledge (LAK2025)* (pp. 1–7).
- Li, H., Xing, W., Li, C., Zhu, W., Lyu, B., Zhang, F., & **Liu, Z.** (2025, March). Who Should Be My Tutor? Analyzing the Interactive Effects of Automated Text Personality Styles Between Middle School Students and a Mathematics Chatbot. In *Proceedings of the 15th Learning Analytics and Knowledge Conference (LAK2025)* (pp. 1–7).
- **Liu, Z.**, Zhang, S., Israel, M., Smith, R., Xing, W., & Minces, V. (2025, Feb). Engaging K-12 students with flow-based music programming: An experience report on its impact on teaching and learning. In *Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 1 (SIGCSE TS 2025)*, February 26–March 1, 2025, Pittsburgh, PA, USA.
- **Liu, Z.**, Jiao, X., Xing, W., & Zhu, W. (2025, Feb). Detecting AI-generated pseudocode in high school online programming courses using an explainable approach. In *Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 1 (SIGCSE TS 2025)*, February 26–March 1, 2025, Pittsburgh, PA, USA.
- **Liu, Z.**, Monteith, B., Chao, J., Wiedemann, K., Fofang, J. B., Li, L., Ma, D., Mohamed, R., Mondol, A., Jo, Y., Fleetwood, A., Lipien, L., Zhang, Y., & Xing, W. (2025, February 17–19). Using entropy analysis to explore student engagement in an online high school data science course. Presented at *DSE-K12 Conference 2025*, Hyatt Regency San Antonio Riverwalk, San Antonio, TX, USA.
- **Liu, Z.**, Guo, R., Song, Y., Xing, W. (2024). WIP: understanding students' in-video dropout behavior in large online math learning platform. In Proceedings of 2024 IEEE Frontiers in Education, Oct 13–16, 2024,

Washington, D.C., USA.

- **Liu, Z.**, Jiao, X., Li, C., & Xing, W. (2024, July). Fair Prediction of Students' Summative Performance Changes Using Online Learning Behavior Data. In *Proceedings of the 17th International Conference on Educational Data Mining* (pp. 686-691).
- **Liu, Z.**, Xing, W., & Li, C. (2024, July). Explainable analysis of AI-generated responses in online learning discussions. In *Educational Data Mining 2024 Workshop: Leveraging Large Language Models for Next-Generation Educational Technologies*. <https://doi.org/10.13140/RG.2.2.24309.38881>
- **Liu, Z.**, Guo, R., Jiao, X., Gao, X., Oh, H., & Xing, W. (2024, June). How AI Assisted K-12 Computer Science Education: A Systematic Review. In *2024 ASEE Annual Conference & Exposition*.
- Oh, H., Guo, R., Xing, W., **Liu, Z.**, Song, Y., & Li, C. (2024, June). The Seamless Integration of Machine Learning Education into High School Mathematics Classrooms. In *2024 ASEE Annual Conference & Exposition*.
- Jiao, X., **Liu, Z.**, Zhou, H., & Cai, S. (2022, July). The Effect of Role Assignment on Students' Collaborative Inquiry-based Learning in Augmented Reality Environment. In *2022 International Conference on Advanced Learning Technologies (ICALT)* (pp. 349-351). IEEE.
- Feng, Z., Gong, C., Jiao, X., **Liu, Z.**, & Cai, S. (2022, July). The Effects of AR Learning Environment to Preschool Children's Numerical Cognition. In *2022 International Conference on Advanced Learning Technologies (ICALT)* (pp. 352-356). IEEE.
- **Liu, Z.**, Jiao, X., & Cai, S. (2021, April 4). *Effects of augmented reality on students' online physics learning*. Paper presented at the 2021 Annual Meeting of the American Educational Research Association (AERA), Virtual Conference. Retrieved August 25, 2022, from the AERA Online Paper Repository.
- Jiao, X., **Liu, Z.**, & Cai, S. (2020, November 23–27). *Impact of embedded cognitive scaffolding of augmented reality technology on elementary school students' science learning*. Paper presented at the 28th International Conference on Computers in Education (ICCE 2020), Virtual Conference. **[Best Paper Nominee]**

Patent

- Cai, S., **Liu, Z.**, Changhao Liu, & Haitao Zhou. (2021). *A non-invasive brain-computer interface-based attention feedback method* (Patent No. ZL 2021 1 1283053.5).
- Cai, S., **Liu, Z.**, & Zhang, Y.. (2023, submitted). *A grid-based self-attention facial expression recognition method using supervised contrastive learning*. (Patent pending).

PRESENTATIONS

- **Liu, Z.**, Ngo, B., & Xing, W. (2025). Evaluating AI-generated distractors in programming education: A human-AI collaborative approach [Poster Presentation]. In *Proceedings of the 2025 ACM Conference on International Computing Education Research (ICER 2025)*. ACM.
- **Liu, Z.**, Xing, W., Zhang, F., & Li, C. (2025, November). *Assessing creativity in music programming: Can AI automate the process?* Concurrent presentation at the AECT International Convention, Las Vegas, NV, United States.
- Xing, W., **Liu, Z.**, & Zhang, F. (2025, November). *Enhancing spatial computational thinking in upper-elementary students through visual programming* [Poster presentation]. AECT International Convention, Las Vegas, NV, United States.
- Jiang, Y., Fan, Y., & Liu, Z. (2026, January 3-7). *Generative artificial intelligence in art education: An overview of current research themes and future research directions* [Paper presentation]. The IAFOR International Conference on Education in Hawaii (IICE2026), Honolulu, HI, United States.
- **Liu, Z.**, Jiang, Y., Li, C., & Xing, W. (2025). Using supervised contrastive learning for improving individual fairness in AI online performance prediction. Presented at the 2025 American Educational Research Association (AERA) Annual Meeting, Denver, Colorado.
- **Liu, Z.**, Song, Y., & Xing, W. (2025). Identifying factors of in-video dropout in middle school online math learning using survival analysis. Presented at the 2025 American Educational Research Association (AERA) Annual Meeting, Denver, Colorado.

- Xing, W., **Liu, Z.**, & Song, Y. (2025). Teaching quantum computing to undergraduate students using a multimedia and simulation-based learning technology. Presented at the 2025 American Educational Research Association (AERA) Annual Meeting, Denver, Colorado.
- Xing, W., Song, Y., Li, C., **Liu, Z.** (2025) Flipping the Roles: Engaging Middle School Students in Learning-by-teaching with a Generative AI-powered Teachable Agent. Presented at 2025 American Educational Research Association (AERA). Denver, Colorado.
- Kim, T., Xing, W., **Liu, Z.**, & Li, H. (2025). Investigating the Impact of Negative Emotions in High School Students' Asynchronous Online Math Discussions. Presented at the 2025 American Educational Research Association (AERA) Annual Meeting, Denver, Colorado.
- **Liu, Z.**, Xing, W. , & Zhu, W.(2023). How AI assisted k-12 computer science education? A systematic review. [Symposium]. University of Notre Dame, US.
- **Liu, Z.**, Xing, W. , & Zhu, W.(2023). Integrating Generative AI in Augmented Reality: A New Paradigm for Educational Resource Creation. [Symposium]. University of Notre Dame, US.
- Oh, H., Guo, R., Xing, W., Song, Y., Li, C., **Liu, Z.** (2024, October 19-23). Integrating Machine Learning into High School Mathematics [Paper presentation]. Association for Educational Communications & Technology International Convention 2024, Kansas City, MO, United States.
- Xing, W., **Liu, Z.**, & Fang, Z. (2024,October 19-23). An exploratory study of mathematics teachers' discourse in an online lesson on polynomial expressions [Paper presentation]. Association for Educational Communications & Technology International Convention 2024, Kansas City, MO, United States.
- Xing, W., **Liu, Z.**, & Song, Y. (2024,October 19-23). Understanding in-video dropout behavior: Analyzing student engagement in online math education [Paper presentation]. Association for Educational Communications & Technology International Convention 2024, Kansas City, MO, United States.
- **Liu, Z.**, Song, Y., Xing, W., Guo, J., Feng, P., & Kim, G. (2024). Enhancing students' quantum computing learning through multimedia and simulation-based tools. Proposal submitted for presentation at the AECT International Convention, Kansas City, MO, October 19–23.
- **Liu, Z.**, Jiang, Y., Li, C., & Xing, W. (2024, October 19–23). Improve individual fairness in online learning performance prediction [Paper presentation]. Association for Educational Communications & Technology International Convention 2024, Kansas City, MO, United States.
- Fang, Z., Xing, W., & **Liu, Z.** (2024, December 4-7). Mathematics teachers' discourse in an online lesson on polynomial expressions. Presented at the Literacy Research Association's 74th Annual Conference, Westin Peachtree Plaza, Atlanta, GA, USA.
- **Liu, Z.**, Xing, W., Ray, S., & Owoputi, R. (2024, December 5–6). Enhancing automotive cybersecurity education in higher education through an immersive virtual environment [Poster presentation]. Warren B. Nelms Annual IoT Conference 2024, Gainesville, FL, United States.
- Li, H., **Liu, Z.**, & Xing, W. (2024, December 5–6). Leveraging secure IoT for intelligent multi-modal assessment in mathematics education [Poster presentation]. Warren B. Nelms Annual IoT Conference 2024, Gainesville, FL, United States.
- **Liu, Z.**, Xing, W., Zhang, F., & Li, C. (2025, March). A visual programming approach to enhance spatial computational thinking skills in upper-elementary students [Poster presentation]. The 15th International Learning Analytics & Knowledge Conference, Dublin, Ireland.

Doctoral Symposium

- *An Explainable Model for AI-Generated Pseudocode Detection in Online High School Programming Courses*, IEEE Frontiers in Education (FIE) 2024, Washington, D.C.
- *Automatic Distractor and Feedback Generation in Online AI Education: A Design-Based Research Study*, ACM International Computing Education Research (ICER) 2025, Virginia

PROFESSIONAL WORK EXPERIENCE

University of Florida, USA

Graduate Research Assistant *Aug. 2023– present*

- Working on the design and development of an educational website called Mflow, using Flow-Based Music Programming to engage children in computer science.
- Conducting research on how AI assists K–12 computer science education.
- Leading research sub-projects on AI fairness and LLMs for online learning

Department of Education, Beijing Normal University

Research Assistant, VR/AR in Education Laboratory Beijing, Sep. 2021 – July 2023

- Designed and developed AR applications for K–12 education, implementing object recognition and plane detection using C#.
- Developed and maintained data validation and storage servers using Java.
- Studied the impact of the AR learning environment on student learning and teacher instruction.

Computer Network Information Center, Chinese Academy of Sciences

Research Assistant, Advanced Interactive Laboratory Beijing, Oct. 2019 – May. 2020

- Led the visualization research of multi-person and multi-dimensional data interactive sharing based on AR.
- Developed Augmented Reality software for satellite science using C#, successfully registered it under Software Copyright (Registration No. 2020R11L426768).

SERVICE/LEADERSHIP

Reviewer

Academic journals

- Reviewer of the Computers & Education (C&E) (2024)
- Reviewer of the Education and Information Technologies (EIT) (2024, 2025)
- Sub-reviewer of special issue on the Equity of Artificial Intelligence in Higher Education, Journal of Computing in Higher Education (2024)
- Reviewer of Discover Education (2025)
- Reviewer of BMC Psychology (2025)

Conferences

- Educational Advances in Artificial Intelligence (EAAI, 2026)
- The 15th International Learning Analytics & Knowledge Conference (LAK Poster Session) (2025)
- International Society for the Learning Sciences (ISLS) (2025)
- Special Interest Group for Computer Science Education (SIGCSE TS) (2025, 2026)
- International Conference on Educational Data Mining (EDM) (2024)
- Association for Educational Communications and Technology (AECT) (2024, 2025)
- Association Society for Engineering Education (ASEE) (2024, 2025, 2026)
- IEEE Frontiers in Education (IEEE FIE) (2024, 2025)
- IEEE Global Engineering Education Conference (IEEE EDUCON) (2025)
- American Educational Research Association (AERA) (2024, 2025, 2026)

Volunteer

- Special Interest Group for Computer Science Education (SIGCSE TS) (2024)

LANGUAGES AND SKILLS

- Language: Mandarin (Native) English (Fluent)
- Certifications: Machine Learning, Deep Learning (Coursera Certificate)
- Programming: Python, C#, HTML, Javascript, R