

# Jingwen He

Assistant Professor

Department of Learning Technologies, College of Information, University of North Texas

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## EDUCATION

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Ph.D. in Educational Psychology and Educational Technology 08/2023-08/2025

Department of Counseling, Educational Psychology & Special Education, **Michigan State University**

*Thesis topic: Designing AI-Facilitated Feedback Using Feedback Triangle Theory: Examining Instructor Implementation*

Ph.D. student in Learning Technology, **The Ohio State University** 08/2021-08/2023

Master in Educational Assessment and Evaluation 09/2018-06/2021

Collaborative Innovation Center of Assessment toward Basic Education Quality, **Beijing Normal University**

*Thesis topic: The Impact of Affective-Support Feedback on Students' Autonomous Inquiry Learning*

Bachelor in Educational Management 09/2014-06/2018

Faculty of Education, **Beijing Normal University**

*Thesis topic: An Empirical Study on Teaching Autonomy Support of Elementary School Teachers in Beijing*

## RESEARCH AND TEACHING INTEREST

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My research focuses on AI-powered learning environments, with a particular emphasis on the social-emotional dimensions of feedback, student-teacher relationships, and motivation. I integrate advanced methodologies, including educational data mining, experience sampling methods, and video analysis, to gain deeper insights into student engagement and learning processes. Additionally, my work explores AI-facilitated assessment and evaluation, leveraging machine learning to enhance instructional decision-making and personalize feedback. In my teaching, I specialize in applying educational psychology theories and quantitative methodologies to improve the design and evaluation of intelligent learning systems.

## GRANT

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Boettger, R.K. (Principal), Pellegrini, M. (Co-Principal), **He, J.** (Co-Principal), Ji, H. (Co-Principal), "Human-Guided AI for Curriculum Innovation: Transforming Faculty Expertise into Ethical AI-Enhanced Learning Resources," sponsored by Learning Institute, University of North Texas, \$11000 Funded. (2026).

(Unfunded) Xie, K. (Principal), Martin, F. (Co-Principal), **He, J.** (Co-Principal), "Balancing Innovation and Integrity: Exploring the dynamics between Middle School Students' Motivation, Learning, and Cheating in the context of Generative AI", sponsored by Spencer Foundation, \$50000. (2026).

## PUBLICATIONS

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### Peer-Reviewed Journal Article

12. **He, J.**, Liu, Y., Zhao, W., Xie, K., & Zhang, D. (2026). The Impact of Affective-Support Feedback on Students' Science Inquiry Learning. *Learning and Motivation*. (Accepted) (2024 SSCI Impact Factor 1.8)

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11. He, J., Xie, K. (2026). Who Wrote This? College Students' Perceptions and Evaluations of Human and AI-Facilitated Feedback. *Educational Psychology*. (Accepted) (2024 SSCI Impact Factor 3.0)
  10. Xie, K., Jiang, Z., Men, Q., Pan, Z., & He, J. (2025). Profiles of students' behavioral engagement and their associations to academic motivation in online learning. *Journal of Computing in Higher Education*, 1-40. (2024 SSCI Impact Factor 4.9)
  9. He, J., Jiang, Z., Pan, Z., Men, Q., & Xie, K. (2025). The Transition Patterns of Learners' Behavior and the Association with Motivation and Cognitive Engagement in Online Learning. *Research and Practice in Technology Enhanced Learning*, 20, 026. (2023 ESCI Impact Factor 3.1)
  8. Jiang, Z., Xu, Z., Pan, Z., He, J., & Xie, K. (2023). Exploring the Role of Artificial Intelligence in Facilitating Assessment of Writing Performance in Second Language Learning. *Languages*, 8(4), 247. (2023 ESCI Impact Factor 0.9)
  7. He, J., Liu, Y., Ran, T., & Zhang, D. (2022). How Students' Perception of Feedback Influences Self-Regulated Learning: The Mediating Role of Self-Efficacy and Goal Orientation. *European Journal of Psychology of Education*, 1-19. (2023 SSCI Impact Factor 2.7)
  6. He, J., Jin, B., Xu, Z., & Zhang, D. (2022). Measuring Elementary Students' Behavioral Engagement in Web-based Science Inquiry Learning. *Journal of Online Learning Research*, 8(3), 289-313.
  5. He, J., Simon, S., & Chiang, F. K. (2022). A Comparative Study of Pre-Service Teachers' Perceptions on STEAM Education in UK and China. *STEM Education*, 2(4), 318-344.
  4. Zhang, D., He, J., & Fu, D. (2021). How Can We Improve Teacher's Work Engagement? Based on Chinese Experiences. *Frontiers in psychology*, 12, 721450-721450. (2023 SSCI Impact Factor 2.6)
  3. Hackman, S. T., Zhang, D., & He, J. (2021). Secondary School Science Teachers' Attitudes towards STEM Education in Liberia. *International Journal of Science Education*, 43(2), 223-246. (2023 SSCI Impact Factor 2.2)
  2. Wei, D., Zhang, D., He, J., & Bobis, J. (2020). The Impact of Perceived Teachers' Autonomy Support on Students' Mathematics Achievement: Evidences Based on Latent Growth Curve Modelling. *European Journal of Psychology of Education*, 35(3), 703-725. (2023 SSCI Impact Factor 2.7)
  1. Chiang, F. K. & He, J. (2017). Analysis of Types of STEM Education Activities at Domestic and Abroad, *The Information Technology Education in Primary and Secondary School*, 11, 64-70. (In Chinese)

#### **Book Chapter**

3. He, J., Li, T., Xu, Z., & Xie, K. (2024). *Leveraging Generative AI in Designing and Delivering Individualized Responsive Feedback for Pre-Service Teachers in Higher Education*, Artificial Intelligence and Human Agency: Perspectives on Cognitive, Social, and Psychological Contexts, Springer.
2. He, J., Frazier, M., & Xie, K. (2023). *Student-Instructor Relationships in Online Learning in Higher Education*. In *Innovation Trends and Educational Technology in Higher Education*, IGI Global.
1. Hawk, N., He, J., & Xie, K. (2023). *A Comprehensive Framework of Engagement in K-12 Virtual Learning: Examining Communities of Support*. In Zimmerman, A. (eds.), *Research, Practice, and Innovations in Teacher Education During a Virtual Age*, IGI Global.

#### **Manuscript Under Review**

5. Xie, K., Jiang, Z., He, J., & Vongkulluksn, V. (2026). Artificial Intelligence: Implications for Learning and Motivation Processes. *Oxford Research Encyclopedia (ORE) of Psychology*.
4. Bae, C., Fire, J., He, J., Osei-Poku, G., Hankour, K., & Xie, K. (2026). When technology fails to engage: Explaining the central role of classroom talk and relevance in middle school science. *Research in Science Education*.
3. Jiang, Z., He, J., Lo, M., Pan, Z., & Xie, K. (2026). "Are You Studying?": Investigating College Students' Self-Regulated Learning Process Across Scheduled Study Events with Mobile Nudges. *Journal of Educational Psychology*.
2. He, J., Jiang, Z., & Xie, K. (2025). Understanding Study Time in College: The Role of Motivation and Time Management Using Experience Sampling Method. *Innovative Higher Education*.

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1. Lin, Q., **He, J.**, & Xie, K. (2025). Predictive and Interactive Roles of Motivation and Situational Learning Activities on Emotional and Cognitive Engagement. *British Journal of Educational Psychology*. (Major Revision)

### Conference Presentation

23. **He, J.**, Jiang, Z., & Sun, Z. (2026, June). *Linguistic Cues in Instructor and AI Feedback: Linking Language to Student Motivation*. Short Paper at the International Conference of the Learning Sciences (ICLS), Irvine, CA.
22. Jiang, Z., Lo, M.-T., **He, J.**, Pan, Z., & Xie, K. (2026, April). "Are you studying?": Investigating college students' self-regulated learning process across scheduled study events with mobile nudges. Paper Presentation at the Annual Meeting of the American Educational Research Association (AERA), Los Angeles, CA.
21. **He, J.**, & Xie, K. (2026, April). Designing AI-facilitated feedback using feedback triangle theory. Paper Presentation at the Annual Meeting of the American Educational Research Association (AERA), Los Angeles, CA.
20. Frazier, M., Lee, G. A., Lin, Q., **He, J.**, LeVault, R., Nuwanga Perera, S., Lee Bae, C., & Xie, K. (2026, April). Digital tools as bridges: A systematic review of how K-12 science teachers connect students' lives to disciplinary science. e-Lightning Ed-Talk/Poster Presentation at the Annual Meeting of the American Educational Research Association (AERA), Los Angeles, CA.
19. Zang, L., **He, J.**, & Akar Hozman, Y. N. (2026, April). Moving beyond efficiency: How teacher educators reconsidered their beliefs and practices with generative AI. e-Lightning Ed-Talk/Poster Presentation at the Annual Meeting of the American Educational Research Association (AERA), Los Angeles, CA.
18. Frazier, M., Lee, G., Lin, Q., **He, J.**, Perera, S., LeVault, R., Bae, C., & Xie, K. (2025, October). *Bridging Technology and Culturally Relevant Pedagogy in Science Education: A Systematic Review of K-12 Research*. Paper presented at the convention of the Association for Educational Communications and Technology Conference, Las Vegas, NV.
17. **He, J.**, Liu, Y., Xie, K., & Zhang, D. (2025, August). Cluster analysis on intrinsic motivation and self-regulation in web-based science learning. Poster Presentation at the European Association for Research on Learning and Instruction (EARLI), Graz, Austria.
16. **He, J.**, Jin, B., Xie, K., & Zhang, D. (2025, June). *Diagnose Academic Emotions from Facial Expressions: Relationship with Science Learning Performance in Web-Based Self-directed Learning*. Short Paper at the International Conference of the Learning Sciences (ICLS), Helsinki, Finland.
15. Lin, Q., **He, J.**, Xie, K. (2025, April). *Predictive and Interactive Roles of Motivation and In-Situ Learning Activities on Emotional and Cognitive Engagement*. Paper Presentation at the Annual Meeting of the American Educational Research Association (AERA), Denver, CO.
14. **He, J.**, Jiang, Z., & Xie, K. (2025, April). *Understanding Study Time in College: The Role of Motivation and Time Management Using Experience Sampling Method*. Poster Presentation at the Annual Meeting of the American Educational Research Association (AERA), Denver, CO.
13. **He, J.**, Jiang, Z., & Xie, K. (2024, August). *Emotional Cost in High School Teachers: Influence of School Support, Relationships, and Motivation*. Paper Presentation at the Annual Conference of American Psychological Association (APA). Seattle, WA.
12. **He, J.** & Xie, K. (2024, August). *The Role of Self-Efficacy and Self-Regulation in Students' Choice of Study Environments*. Virtual Poster Presentation at the Annual Conference of American Psychological Association (APA). Seattle, WA.
11. **He, J.**, Jiang, Z., & Xie, K. (2023, August). *How Do Teacher Autonomy Support and Structural Support Influence Student-Teacher Relationships?* Poster Presentation at the Annual Conference of American Psychological Association (APA), Washington, DC.
10. Xie, K., Jiang, Z., Pan, Z., Men, Q., & **He, J.** (2023, April). *Examining Learning Engagement through Sequential Pattern Mining*. Paper Presentation at the Annual Meeting of the American Educational

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Research Association (AERA), Chicago, IL.

9. Xie, K., Huang, L., Shortt, M., He, J., & Jiang, Z. (2023, April). The Role of Students' Motivation in Engagement and Performance in Online Learning in Higher Education Settings: A Systematic Analytical Review. Paper Presentation at the Annual Meeting of the American Educational Research Association (AERA), Chicago, IL.
8. He, J., Xie, K., Jiang, Z., & Vongkulluksn, V. (2023, April). *Examining Motivation Development During Adolescence Using a Combination of Variable-Centered and Person-Centered Approaches*. Poster Presentation at the Annual Meeting of the American Educational Research Association (AERA), Chicago, IL.
7. Hawk, N.A., He, J., & Xie, K. (2022, October). *Communities of Support: Development of a Comprehensive Framework of Student Engagement in K-12 Virtual Learning*. Paper Presentation at the convention of the Association for Educational Communications and Technology (AECT), Las Vegas, NV.
6. Pan, Z., Jiang, Z., Men, Q., He, J. & Xie, K. (2022, October). *A Two-Level Cluster Analysis that Integrates Fine-Grained Event-Based Sequences with Learner-Based Behavioral Patterns*. Paper Presentation at the convention of the Association for Educational Communications and Technology (AECT), Las Vegas, NV.
5. Jin, B., Zhang, D., & He, J. (2021, April). The Role of Feedback Perception on Students' Motivation and Self-Regulated Learning in Web-Based Learning Environment. Paper Presentation at the Annual Meeting of the American Educational Research Association (AERA), Virtual.
4. He, J., Jin, B., & Zhang, D. (2021, April). *Using Affection Supportive Feedback to Promote Students Engagement in Web-Based Science Learning Environment*. Roundtable Presentation at the Annual Meeting of the American Educational Research Association (AERA), Virtual.
3. He, J. & Teng, J. (2020). *Learning and Practicing 21<sup>st</sup> Century Skills: A Comparative Study on Student Teachers Between Finland and China*. Paper Presentation at the Annual Conference of the Comparative and International Education Society (CIES), Miami, FL.
2. Hou Y., He, J., & Zhang, D. (2019, April). *The Effects of Social Support and Achievement Motivation on Collaboration Problem Solving---Comparative study between China and the U.S.*, Paper Presentation at the Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.
1. Cui Y., Wang, X., He, J., & Zhang, D. (2018). *The Empirical Study of Students' Opportunity to Express Opinions Freely in Web-based Science Inquiry Learning*. The 22nd Global Chinese Conference on Computers in Education (GCCCE 2018), pp: 87-95.

## TEACHING AND CONSULTING

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| <b>LTEC 1100 (Introduction to Computer Applications), University of North Texas, U.S.</b>   | 01/2026-present |
| • Course redevelopment. Incorporate AI-assisted computer applications.  |                 |
| <b>LTEC 5300 (Learning and Cognition), University of North Texas, U.S.</b>  | 10/2025-present |
| • Evaluation 4.7/5.0  |                 |
| <b>Instructor for TE150 (Reflections on Learning), Michigan State University, U.S.</b>  | 01/2024-05/2025 |
| • Contributed to course instruction by grading assignments and providing detailed, constructive feedback to enhance student learning.                         |                 |
| • Incorporated AI tools to support teaching and streamline feedback processes, aligning with constructivist learning principles to foster student engagement. |                 |
| <b>Statistics Consultant, Quantitative Methodology Center, Columbus, U.S.</b>   | 08/2022-08/2023 |
| • Offered quantitative methodology consultation to over 150 faculty members and students within the EHE department at The Ohio State University.              |                 |
| • Lectured on two inferential statistics workshops.   |                 |
| • Taught statistics at the Metro Early College High School design learning program.   |                 |

- Teaching Assistant for Hierarchical Linear Model, Beijing Normal University, China** 09/2020-12/2020
- Provided grading, facilitated lab sessions, and offered software (HLM, SPSS, MPLUS, R) and data analysis support to assist students in mastering complex statistical techniques.
- Teaching Assistant for Multivariate Statistics, Beijing Normal University, China** 03/2020-06/2020
- Provided grading, facilitated lab sessions, and offered software (SPSS) and data analysis support to help students grasp advanced statistical concepts and techniques.
- Teaching Assistant for Educational Statistics, Beijing Normal University, China** 03/2019-06/2019
- Provided grading, organized lab sessions, and offered software (SPSS) and data analysis support to assist non-domestic students in understanding foundational statistical concepts.
- Science Teacher at Primary School of Niulanshan No.1 Middle School, Beijing, China** 10/2017-11/2017
- Taught 4<sup>th</sup> grade and 6<sup>th</sup> grade science courses and conducted a two-week project-based learning course.

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## LEADERSHIP AND SERVICE EXPERIENCE

### Editorial Assistant for The Internet and Higher Education

- Support the chief editor in managing manuscript submissions by overseeing the submission process, coordinating with authors and reviewers, and ensuring a smooth workflow for timely editorial decisions.

### Reviewer for Journals and Book chapters

- The Internet and Higher Education
- The Asia-Pacific Education Researcher
- Environment and Social Psychology
- Heliyon
- Qeios
- Book chapter: Artificial Intelligence and Human Agency in Education: Perspectives on Cognitive, Social, and Psychological Contexts; Innovation Trends and Educational Technology in Higher Education

### Reviewer for Conferences

- American Psychological Association Conference (APA), 2023
- International Conference of the Learning Sciences (ISLS), 2022, 2025
- Quantitative Methodology Conference, 2022

### Guest Speaker for HDFS 2410 (Child Development)

04/19/2023

- Presented Self-Determination Theory, Expectancy-Value Theory, and Achievement Goal Theory.
- Discussed an empirical study on student motivation during middle and high school.
- Explained the use of both variable-centered and person-centered approaches to examine changes in motivation scores and profiles over time.

### Fox Leadership International, University of Pennsylvania, U.S.

07/2017-08/2017

- Engaged in Fox Leadership International, focusing on global challenges such as aging, water protection, and vaccination during a two-week leadership and cultural exchange program.

### Team Leader in PEER 2018 Summer Camp, Guangxi, China

07/2018-08/2018

- Led the planning and execution of a three-week summer camp, effectively building and managing a cohesive team.
- Collaborated with school leaders to address challenges related to course delivery, financial management, and logistical arrangements, ensuring the successful implementation of the camp program.

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## AWARDS AND SCHOLARSHIP

- Dissertation Completion Fellowship, Michigan State University, 2025
- Summer Research Fellowship, Michigan State University, 2024 (Department Research Grant for Graduate Students, examined the role of teacher autonomy support and structural support on students' motivation)
- University Fellowship, The Ohio State University, 2021 (Highly Competitive)
- Jingshi Second-rank Scholarship, CICABEQ, Beijing Normal University (BNU), 2020 (Top 30%)

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- Jingshi First-rank Scholarship, CICABEQ, Beijing Normal University (BNU), 2019 (Top 10%)
  - Outstanding Graduates in Beijing, Beijing Normal University (BNU), 2018 (Top 5%)
  - Youth Entrepreneurship Competition in Beijing, Gold award, 2016 (Top 10%)
  - Three-Year Jingshi First-rank Scholarship, Faculty of Education, BNU, 2015-2017 (Top 10%)
  - Two-Year Competition Second-rank Scholarship, Faculty of Education, BNU, 2016-2017 (Top 30%)
  - Three-Year Straight-A-Student, Faculty of Education, Beijing Normal University (BNU), 2015-2017