

Ruiping Huang, PhD Candidate

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EDUCATION

University of Illinois Chicago (UIC), Chicago, IL

Ph.D. in Educational Psychology with a Concentration in Measurement, Evaluation, Statistics, and Assessment,

GPA: 4.00/4.00, 05/2027

M.Ed. in Measurement, Evaluation, Statistics, Assessment, GPA: 4.00/4.00, 05/2026

M.S. in Statistics, GPA: 4.00/4.00, 12/2025

PEER-REVIEWED JOURNAL PUBLICATIONS

Huang, R., Yin, Y., Zhou, N., & Lang, F. (2026). Artificial intelligence in K-12 education: An umbrella review.

Computers and Education: Artificial Intelligence, 100519. <https://doi.org/10.1016/j.caeai.2025.100519>

Andersen, A., Huang, R., & Liu, E. J. (2026). The application of artificial intelligence in healthcare practice: A mapping review of systematic reviews. *Artificial Intelligence in Medicine*, 103495.

<https://doi.org/10.1016/j.artmed.2026.103495>

Huang, R. (2024, December). *The role of Skyline curriculum implementation in moderating the relationship between ECS course-taking and high school students' science performance in Chicago Public Schools* [Report]. The Learning Partnership. <https://doi.org/10.51420/Report.2024.9>

Song, Y., & Huang, R. (2020). The influence mechanism of teachers' career well-being in compulsory education in developing areas [In Chinese]. *Journal of Modern Education*, (2), 26–35.

<https://xdjylc.scnu.edu.cn/article/id/6b86b731-416d-4f53-8098-241cadd33623>

SELECTED CONFERENCE PRESENTATIONS

Huang, R., & Yin, Y. (2025, November). *Generative AI for classroom assessment: How to make it helpful, not harmful* [Paper presentation]. Purdue AI in P-12 Education Conference, West Lafayette, Indiana, United States.

Dai, T., Huang, R., Cromley, J. G., Kaplan, A., Perez, T., Mara, K. R., & Balsai, M. J. (2025, April). *Exploring differential effects of a semester-long online intervention with latent profiles of learning engagement* [Poster presentation]. 2025 Annual Meeting of the American Educational Research Association, Denver, CO, United States. <http://dx.doi.org/10.3102/IP.25.2191696>

Huang, R., Yin, Y., Zhou, N., Lang, F., Chen, Y., & Riel, J. (2025, April). *Artificial intelligence applications in K-12 teaching and learning: An umbrella review* [Poster presentation]. 2025 Annual Meeting of the American Educational Research Association, Denver, CO, United States. <http://dx.doi.org/10.3102/IP.25.2192314>

Huang, R., & Yin, Y. (2025, March). *Methodology for systematic reviews in education* [Paper presentation]. 16th Annual College of Education Graduate Student Conference, University of Illinois Urbana-Champaign, Urbana, IL, United States.

Huang, R., Yin, Y., Zaidi, S., Chen, Y., & Strasser, M. (2023, April). *Addressing challenges in formative assessment practices by artificial intelligence: A systematic review* [Poster presentation]. 2023 Annual Meeting of the American Educational Research Association, Chicago, IL, United States. <https://doi.org/10.3102/IP.23.2014059>

INVITED TALKS

Huang, R., Yin, Y., Zhou, N., & Lang, F. (2025, July). *Artificial intelligence in K-12 education: An umbrella review*. Paper presented at the 26th International Conference on Artificial Intelligence in Education (AIED 2025), Palermo, Italy.

RESEARCH EXPERIENCE

11/2025-Present Scalable Personalized Learning with LLM-Linked Custom Knowledge Graphs

Research Assistant, Advisor: Assistant Professor Jeremy Riel, Department of Educational Psychology, UIC

- Co-developed an LLM-based learning analytics system that visualizes students' computer science knowledge, skills, and interests in real time for educator decision support.
- Built React and Node.js admin tools for CSV parsing, validation, multi-select filters, and soft and hard deletion to streamline data management.
- Translated user needs into product requirements, Figma prototypes, and GitHub issues.
- Created Qualtrics workflows with PIs for student surveys, consent forms, and teacher Delphi surveys.
- Analyzed 42 AI education tools using structured coding criteria to guide system design.

10/2021-08/2025 The Potential of an Automatically Scored Three-dimensional Assessment System

Research Assistant, Advisor: Professor Yue Yin, Department of Educational Psychology, UIC

- Helped teachers improve instructional decision-making by using the improved automatic scoring system.

- Led UIC IRB applications and modifications and received approvals for the development.
- Independently coded students' feedback by applying learning from code training.
- Collaborated on designing the feasibility study, testing the platform, and providing improvement feedback.
- Co-designed instruments including 1) Think Aloud Protocol; 2) Questionnaire; 3) Teacher Scenario Prompt; 4) Interview Protocol; 5) Observational Protocol; 6) Performance tasks.
- Led drafting conference and journal manuscripts and delivered presentations and submissions.

TEACHING EXPERIENCE

- **EPSY 543 Advanced Analysis of Variance in Educational Research**
Instructor, Fall 2022, Department of Educational Psychology, UIC
- **MESA Lab**
Lab Assistant, 06/2023-05/2024, Department of Educational Psychology, UIC
- **EPSY 500 Doctoral Student Seminar**
Guest Speaker, 09/2024, College of Education, UIC
- **ESCI 8990 Research Seminar,**
Guest Speaker, 10/2024, College of Education, University of Georgia

ACADEMIC SERVICES

Committee Member (Student Member): Jason Millman Promising Measurement Scholar Award Committee, National Council on Measurement in Education (NCME), 05/2026–05/2027

Journal Reviewer: Journal of Research on Technology in Education, Journal of Science Education and Technology, International Journal of Science Education, Journal of New Approaches in Educational Research

Conference Reviewer: 2027 American Educational Research Association (AERA) Annual Meeting; National Council on Measurement in Education (NCME) 2024 Special Conference on Classroom Assessment.

WORK EXPERIENCE

Data Analyst Intern, The Learning Partnership, Chicago, IL, 06/2024-08/2024

- Built and interpreted a three-level HLM to examine whether Skyline curriculum implementation moderated the relationship between ECS course participation and student science performance.
- Cleaned, validated, and analyzed 36,000-40,000 Chicago Public School student records per subject using R and STATA/MP 18.0, ensuring data integrity and consistency for multilevel modeling.
- Presented findings to administrators, teachers, and researchers at the 2024 CAFÉCS Research Symposium, explaining statistical results in practical recommendations.

Data Analyst Intern, Save the Children, Guangzhou, China, 04/2021-09/2021

- Co-designed survey instruments and data collection workflows to capture program accountability metrics from multiple stakeholder groups.
- Analyzed interview, field observation, and survey data for mixed-methods program evaluation, triangulating qualitative and quantitative evidence for decision support.
- Maintained the Accountability database and summarized findings for program monitoring reports.
- Co-authored the China Accountability Report and prepared evaluation findings for internal and external stakeholder communications.

LEADERSHIP EXPERIENCE

UIC Graduate Student Council Department Representative, Chicago, IL, 2023-2024; 2025-2026

UIC International Student Community Leader, Chicago, IL, 2024-2026

HONORS AND AWARDS

- Finalist, WordPress AI Leaders Program, 1 of 36 finalists selected from 500+ participants, 06/2026
- Finalist, UIC Graduate College Three Minute Thesis Competition, 03/2026
- Recipient, UIC Graduate Student Council Travel Award, 05/2025
- Recipient, First-class Scholarship in South China Normal University (Top 2%), 2016-2019
- Provincial Grand Prize Winner, Challenge Cup Guangdong Academic Competition (Top 2%), 2019
- Second Prize Winner, Qingyan Cup South China Normal University Research Competition (Top 3%), 2018
- Outstanding Student Leader, South China Normal University, 2016-2019
- Best Debater, South China Normal University Campus Cup Debate, 2017
- Excellent Young Volunteer, South China Normal University, 2016-2019