

Ruiping Huang, MS, MEd

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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, 12/2026

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

SKILLS

- **Languages:** English (fluent); Mandarin (native); Cantonese (native); Korean (basic).
- **Technical Skills:**
 - **Programming & Querying:** Python, R, SQL
 - **Analytics Software:** Stata/MP, SAS, SPSS, MATLAB, Alteryx
 - **Digital & Product Analytics:** Google Analytics
 - **Data Workflow:** ETL, data cleaning, validation, quality assurance, reproducible analysis
 - **Modeling Methods:** regression, hypothesis testing, GLM, HLM, SEM, latent class analysis, IRT, factor analysis, Random Forest, clustering, XGBoost, LSTM, model interpretation
 - **Psychometrics & Measurement Tools:** Winsteps, IRTPro, ConQuest, Mplus, AMOS
 - **Survey & Evaluation:** Qualtrics, survey design, program evaluation
 - **Visualization & Reporting:** Tableau, Power BI, Streamlit
 - **Design:** Figma, Canva, WordPress
 - **Productivity & Collaboration:** Google Workspace, Notion, Slack, Microsoft Teams
 - **AI Applications:** LLM APIs, prompt engineering, function calling, MCP, multi-agent workflows

SELECTED DATA SCIENCE PROJECT

Predicting Teachers' Use of AI ([Github link](#)), Erdős Institute Data Science Boot Camp, 05/2026-07/2026

- Cleaned, recoded, and validated 278,383 OECD TALIS teacher records across 55 countries using Python, ensuring data quality for downstream modeling.
- Engineered 18 features, compared logistic regression, Lasso, Elastic Net, random forest, XGBoost, LightGBM, and gradient boosting models, and found that gradient boosting achieved ROC-AUC 0.833 to predict teachers' use of AI.
- Identified AI benefit beliefs and prior training as strongest predictors, and translated findings into implications for teacher support and education policy.

RELEVANT EXPERIENCE

Data Analytics 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.
- Authored a public report (<https://doi.org/10.51420/Report.2024.9>) featured by the quarterly magazine of the National Network of Education Research-Practice Partnerships.

Data Analytics 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.

Design & Research Assistant, UIC SkillTree Project, Chicago, IL, 11/2025-Present

- Contributed to developing an LLM-based learning analytics system that visualizes students' computer science knowledge, skills, and interest 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.

Design & Research Assistant and Project Leader, UIC PASTA project, Chicago, IL, 10/2021-Present

- Designed and administered surveys, interviews, and performance tasks to assess middle and high school STEM teachers' generative AI literacy in classroom assessment.
- Managed teacher recruitment by contacting approximately 1,000 U.S. teachers and tracking participation, completion, and retention across research activities and training workshops.
- Designed and delivered five teacher professional development workshops on AI for classroom assessment across multiple teacher cohorts, helping teachers understand AI concepts and apply practical strategies.
- Co-wrote a National Science Foundation grant proposal (ID: DRL-2608561, Amount: \$119,208).

Data Analytics Assistant, UIC Student Engagement Project, Chicago, IL, 08/2021-05/2022

- Modeled engagement profiles of 386 college students using latent class analysis in Mplus and SPSS.
- Coded 4,500+ student open-ended responses and contributed to manuscript development.
- Worked with the research team to refine coding frameworks, resolve interpretation differences, and improve the analytic strategy.

Project Leader, Teachers' Well-being Study, Guangzhou, China, 07/2018-07/2019

- Designed a 53-item questionnaire to measure teacher well-being constructs.
- Led a mixed-methods study with six interviews and survey data from 848 teachers.
- Built and interpreted a structural equation model using SPSS and AMOS.
- Authored a manuscript and won the provincial Grand Prize of the Challenge Cup Competition.

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

- Communicated student concerns to university leadership and voted on school policy and funding decisions.
- Prepared and shared meeting notes to keep students informed of school decisions and opportunities.
- Co-organized graduate student gatherings events with department faculty and staff.
- Designed student event activities, coordinated venue setup, hosted and led in-person events.

HONORS AND AWARDS

- Finalist, WordPress AI Leaders Program, 06/2026
- Finalist, UIC Graduate College Three Minute Thesis (3MT) Competition, 03/2026
- Recipient, UIC Graduate Student Council Travel Award, 05/2025