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Associate Professor

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Research Interests:

Creative thinking assessment, measurement, quantitative research methodology

Educational Background

2017-2021	Teachers College, Columbia University	Ph.D in Measurement & Evaluation
2014-2017	Beijing Normal University	M.A in Measurement & Evaluation
2010-2014	Beijing Normal University	B.A in Education Management
2015	University of North Carolina at Greensboro	Exchange Student

Working Experiences

2024.12 – present	Shanghai Jiao Tong University, Shanghai, Associate Professor
2021.9 – 2024.12	Shanghai Jiao Tong University, Shanghai, Assistant Professor
2020 - present	Harvard University & Peking University, Yuanpei Young Scholars Program Mentor
2019 - 2021	Center for Technology and School Change at Columbia University, New York, USA, Graduate Researcher

Recent Publications (* corresponding author)

[1] **Ma, Y.** (2025). The effect of risk-taking tendency on student creative problem-solving skills: The moderating role of perceived teacher support for creativity. *Thinking Skills and Creativity (SSCI)*.

[2] **Ma, Y.** (2025). Using interactive assessment for all-round student development. *GuangMing Educator* (in Chinese, commissioned article).

- [3] **Ma, Y.**, Zhang, H., Deng, X., & Jiang, F (2025). The development and validation of a computer-based creative problem-solving assessment task. *Educational Measurement and Evaluation* (in Chinese).
- [4] **Ma, Y.**, Zhang, H., & Liu, L. (2025). An overview of the performance assessment system for pre-service teachers in American K-12 education. *Shanghai Education*, 23, 70-72 (in Chinese).
- [5] **Ma, Y.**, Zhang, H., & Wang, M. (2024). The effect of parental support on student self-rated and task-based creativity: The mediating role of creative interest and self-efficacy. *Thinking Skills and Creativity*, 52, 101512 (SSCI).
- [6] Wang, M., **Ma, Y.***, & Zhang, H. (2024). The effect of teachers' creative teaching behavior on primary school students' creative problem-solving skills: The mediating role of creative motivation. *Educational Academy Monthly* (in Chinese, CSSCI extended).
- [7] **Ma, Y.**, Zhang, H., Ni, L., & Zhou, D. (2023). Identifying collaborative problem-solver profiles based on collaborative processing time, actions and skills on a computer-based task. *International Journal of Computer-supported Collaborative Learning*, 18, 465–488. (SSCI)
- [8] Zhou, D., Liu, S., Zhou, H., Liu, J., & **Ma, Y*** (2023). The association among teacher-student relationship, subjective well-being, and academic achievement: Evidence from Chinese fourth graders and eighth graders. *Frontiers in Psychology*, 14:1097094. (SSCI)
- [9] **Ma, Y.** (2022). The effect of inquiry-based practices on scientific literacy: The mediating role of science attitudes. *International Journal of Science and Mathematics Education*. (SSCI)
- [10] **Ma, Y.** (2022). Profiles of student attitudes toward science and its associations with gender and academic achievement. *International Journal of Science Education*, 1-20. (SSCI)
- [11] **Ma, Y.** (2021). A cross-cultural study of student self-efficacy profiles and the associated predictors and outcomes using a multigroup latent profile analysis. *Studies in Educational Evaluation*, 71, 101071. (SSCI)

[12] **Ma, Y., & Qin, X. Y.** (2021). Measurement invariance of information, communication and technology (ICT) engagement and its relationship with student academic literacy: Evidence from PISA 2018. *Studies in Educational Evaluation*, 68, 100982. (SSCI)

[13] **Ma, Y. & Corter, J. E.** (2019). The effect of manipulating group task orientation and support for innovation on collaborative creativity in an educational setting. *Thinking Skills and Creativity*, 33, 100587. (SSCI)

Selected Research Projects

2023.10 - 2026.10 The computerized assessment and longitudinal study of secondary school students' creative problem-solving skills in mathematics. *Ministry of Education, Humanities and Social Sciences*. Principal Investigator.

2023.05 - 2023.10 The assessment of compulsory education quality in Gansu Province (mathematics), *Gansu Province Educational Science Research Institute*. Principal Investigator.

2023.06 - 2024.06 The assessment and improvement of college student creative ability under the construction of New Engineering Education, *Shanghai Jiao Tong University*. Principal Investigator.

2023.05 - 2024.05 The assessment of basic education assessment in Xindu District of Chengdu City, *The Educational Institute of Chengdu*. Principal Investigator.

2022.10 - 2025.10 The assessment of student collaborative creative problem-solving ability using big data technique, *Shanghai Pujiang Program*. Principal Investigator

2020.04 – 2021.04 Assessing students' collaborative probability problem solving ability using performance assessment: Development and use of a scoring rubric, *Dean's Grant at Teachers College, Columbia University*. Principal Investigator.

2019 - 2021 Teachley problem solving assessment: Supporting teachers to assess and promote students' mathematical thinking, *Institute of Education Sciences, USA*, Main participant.

2019 - 2021 Systematic transformation of inquiry learning environment for STEM, *National Science Foundation (NSF), USA*, Participant: Yue Ma

2018 - 2022 Bedtime Math fun factor program, *Department of Education, USA*, Main participant.

2018 - 2019 Gender gap in mathematics achievement: A large-scale longitudinal study in Chile, *University of Chile, Chile*. Main participant

Selected Conference Presentations

Ni, L. & **Ma, Y.** The manifestation of creative thinking in Chinese mathematics textbooks for senior high schools. *American Educational Research Association, Philadelphia, April 11-14, 2024.*

Zhang, H. & **Ma, Y.** The influence of the discrepancies between educational expectations and academic performance on subjective well-Being. *American Educational Research Association, Philadelphia, April 11-14, 2024.*

Ma, Y. The mediating role of science attitudes in the relationship between inquiry-based practices and scientific literacy. *American Educational Research Association, Virtual, May 4-5, 2023.*

Ma, Y. & Ma, H. Profiles of Hong Kong student science attitudes and its associations with gender and science achievements. *American Educational Research Association, Virtual, April 8-12, 2021.*

Qin, X. Y. & **Ma, Y.** Are China's results hard to believe? A comparison of migrant and local students' mathematics performance in PISA 2018. *American Educational Research Association, Virtual, April 8-12, 2021.*

Meier, E.B., Mineo, C. M., Diaz Yanez, K. G., Du, X., & **Ma, Y.** *Educational responsibility for addressing complex problems: STEM research with underserved schools. American Educational Research Association, Virtual, April 8-12, 2021.*

Winsor, S., Marcus, J., **Ma, Y.**, & Donnelly, K. Z. *The feasibility, acceptability, and effectiveness of the LoveYourBrain Yoga program on caregivers of people with traumatic brain injury. Symposium on Yoga Research, Virtual, October 19-20, 2020.*

Honors and Scholarship

2021	Teaching Excellence Award School of Education, Shanghai Jiao Tong University, China
2021	China National Award for Outstanding Students Abroad China Scholarship Council, Ministry of Education of China
2021	Doctoral Dissertation Grant (<i>selection rate: 2%</i>) Teachers College, Columbia University
2017-2020	PhD Full Fellowship (<i>selection rate: 1%</i>) Teachers College, Columbia University
2018-2021	International Student Scholarship Teachers College, Columbia University
2020	International Conference Award Teachers College, Columbia University
2020	Doctoral Candidate with Distinction Teachers College, Columbia University
2015	China National Scholarship (<i>selection rate: 2%</i>) Ministry of Education of China

Academic Services

Anonymous reviewer for:
Computers in Education
Frontiers in Psychology
Studies in Educational Evaluation