

Siling Guo

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School of Education 3200 Education Bldg. Irvine, CA 92697

EDUCATION

University of California, Irvine

Doctor of Philosophy in Education (Human Development in Context)

Exp. June 2027

Master of Arts in Education

June 2025

University of Pennsylvania

Master of Science in Education (Interdisciplinary Studies in Human Development)

August 2022

University of Macau

Bachelor of Education (Major: Pre-Primary Education | Minor: Psychology)

June 2019

PEER-REVIEWED PUBLICATIONS

- **Guo, S.**, Bailey, D. H., Rhodes, K., Begolli, K. N., Bermudez, V. N., Lawrence, L., Alvarez-Vargas, D., Acevedo-Farag, L. M., Ahn, J., Bustamante, A. S., & Richland, L. E. (2024). Buckets of fun: Impacts of fraction ball activities on students' math-related emotions. *Journal of Applied Developmental Psychology*, 92, 101645.
- **Guo, S.**, Sun, T., Gong, J., Lu, Z., Wang, Q., & Zhang, L. (2022). Remote Co-teaching in Rural Classrooms: Current Practice, Perceptions, and Challenges. In *CHI Conference on Human Factors in Computing Systems (CHI'22)*. April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA.
- Gong, J., Han, T., **Guo, S.**, Li, J., Zha, S., Zhang, L., ... & Rui, Y. (2021). HoloBoard: A Large-format Immersive Teaching Board based on Pseudo Holographics. In *The 34th Annual ACM Symposium on User Interface Software and Technology (UIST '21)*, October 10–14, 2021, Virtual Event, USA. ACM, New York, NY, USA.

MANUSCRIPTS UNDER REVIEW/REVISION

- **Guo, S.**, & Wolf, S. The Role of Classroom-level School Readiness in Predicting Classroom Quality and Teacher Well-being in Ghanaian Preschools. (Under Revision)
- Begolli, K. N.*, **Guo, S.***, Acevedo-Farag, L. M., Sanchez, J. G., Yu, X., Kim, Y., Vu, M., Hernandez L., Ahn, J., Bailey, D. H., Bustamante, A. S., & Richland, L. E. Enhancing Flexible Transfer of Fractions: The Role of Sequential and Simultaneous Games with Multiple Representations. (Under Revision) [***First authorship shared**].
- Wan, S., Tian, J., **Guo, S.**, & Lauermann, F. Do Students Become More Likely to See Themselves as a “Math Person” or a “Language Person” Across K-12? Evidence From Four U.S. Longitudinal Datasets. (Under Revision).
- **Guo, S.**, Hübner, N., Zitzmann, S., Hecht M., Murayama, K., & Bailey, D. H. Random Intercepts and Slopes in Longitudinal Models: When Are They “Good” and “Bad” Controls? (Under Review).
- Cristancho, J. C., **Guo, S.**, McCoy, D. C., & Bailey, D. H. A Meta-Analysis of the Effects of Objective Measures of Exposure to Community Violence on Child Outcomes. (Under Review).

SELECTED CONFERENCE PAPER PRESENTATIONS (since 2022)

- Wan, S., Tian, J., & **Guo, S.** (2025). *Do Students Increasingly Identify Themselves as Either a “Math Person” or “Reading Person” During K-12?* Paper presented at the American Educational Research Association (AERA), Denver, CO.

- Begolli, K. N., Bermudez, V. N., **Guo, S.**, Tafoli, B., Selimi, N., Hoxha, Z., Bailey, D. H. , Rhodes, K., Bustamante, A. S., & Richland, L. E. (2024). *Playful Fraction Learning in low-and middle-income countries: A case study from Kosova*. Paper presented at the European Association for Research on Learning and Instruction (EARLI), Warsaw, Poland.
- **Guo, S.**, Begolli, K. N., Acevedo-Farag, L. M., Sanchez, J. G., Rhodes, K., Ahn, J., Richland, L. E., Bustamante, A. S., & Bailey, D. H. (2024). *Examining the Effectiveness of Playful Math Games on Adding Fractions*. Paper presented at the Mathematical Cognition and Learning Society (MCLS), Washington, D.C.
- Begolli, K. N., Bermudez, V. N., Tafoli, B., Selimi, N., **Guo, S.**, Vula, E., & Bustamante, A. S. (2024). *Bridging DBIR and RCT Approaches to Prepare to Scale-Up Playful Fraction Learning in Kosova*. Paper presented at the American Educational Research Association (AERA), Philadelphia, PA.
- Bermudez, V. N., **Guo, S.**, Lopez-Perez, J., Sanchez, J. G., Bailey, D. H., Begolli, K. N., & Bustamante, A. S. (2024). *Co-designing Soccer Number Ball Games with Teachers: Lessons Learned and Influences on Latine Students' Motivational Experiences*. Paper presented at the American Educational Research Association (AERA), Philadelphia, PA.
- Ebby, C., Diaz, K., **Guo, S.**, & Ehrenberg, Z. (2023). *Effects of the First Year of A 3-Year Intervention in Learning Trajectory-Oriented Formative Assessment on Grade3 PreK-3 Student Achievement*. Paper presented at the Society of Research on Educational Effectiveness (SREE), Arlington, VA.
- **Guo, S.**, Acevedo-Farag, L. M., Sanchez, J. G., Alvarez-Vargas, D., Lawrence, L., Bustamante, A. S., Begolli, K. N., Rhodes, K., Richland, L. E., & Bailey, D. H. (2023). *Impact of Fraction Ball Activities on Students' Math-Related Emotions*. Paper presented at the Mathematical Cognition and Learning Society (MCLS), Loughborough, UK

RESEARCH EXPERIENCE (since 2022)

2025 – present	Graduate Student Researcher Irvine Math Project PI: Karajean Hyde
2024 – present	Graduate Student Researcher Essential Literacy Practices in Puerto Rico: <i>Uptake and implementation of a literacy coaching program</i> project PI: Paola Guerrero Rosada
2022 – present	Graduate Student Researcher Fraction Ball PI: Andres Bustamante

AWARDS AND HONORS

2025	UC Irvine Deborah Lowe Vandell Dissertation Research Award
2024, 2025	UC Irvine Associated Graduate Student Council AGS Conference Grant
2023	Member of Modern Meta-Analysis Research Institute (selective meta-analysis workshop for early career STEM scholars PI: Terri Pigott)
2023	The Mathematical Learning Cognition and Learning Society Travel Award
2019, 2020	University of Pennsylvania Merit Scholarship
2019	Macau Foundation Academic Prize (University of Macau)
2016, 2017, 2018	Henry Fok Foundation Scholarship (University of Macau)

GRADUATE COURSES IN STATISTICS AND METHDOLOGY

Applied Regression; Data Analysis in Education; Causal Inference: Methods for Program Evaluation and Policy Research; Structural Equation Modeling (SEM); Advanced SEM; Item Response Theory; Measurement and Psychometrics; Principles of Monitoring & Evaluation in International Educational Development.

PROFESSIONAL AFFILIATIONS

American Educational Research Association; Society for Research in Child Development; Society of Research on Educational Effectiveness; Mathematical Cognition and Learning Society