

Erin Maria Horan
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EDUCATION

Ph.D. Educational Psychology. University of Georgia, Athens, GA (2017).

M.A. Psychology. Stony Brook University, Stony Brook, NY (2011).

B.A. Psychology. concentration in sociology, Stony Brook University, Stony Brook, NY (2010).

EXPERIENCE

Instructional Designer (2019-Present). *Center for Teaching, Research & Learning, American University.*

- Consult with faculty on all aspects of instruction including assignment design, rubrics, course and program design, Open Educational Resources (OER), and the Scholarship of Teaching and Learning (SoTL).
- Curate materials and resources for faculty as needed (e.g., website content).

Part-Time Assistant Professor (2017-Present). *University of Georgia.*

- *ERSH 7500E: Action Research* - the creation and implementation of research on students to effectively assess current conditions and make immediate improvements.
- *EPSY 6800E: Foundations of Cognition for Education* - cognitive psychology as applied to education including theories and application to student learning.

Postdoctoral Research Analyst (2017-2019). *Association of American Colleges and Universities (AAC&U), Office of Quality, Curriculum, and Assessment.*

- Analyzed data from colleges and universities to assess student attainment of essential learning outcomes.
- Evaluated data regarding the validity and reliability of rubrics for assessing student learning.
- Led professional development of colleagues with research methods seminars (e.g., NVivo; SPSS; Qualtrics) to support cross-office facilitation of AAC&U research endeavors.
- Collaborated with institutional research partners to execute grant funded projects (e.g., the Multi-State Collaborative: <http://www.aacu.org/value/msc>; the VALUE Institute: <http://valueinstituteassessment.org/>).

Graduate Assistant for Teaching Assistant Development and Recognition (2015-2017). *Center for Teaching and Learning, University of Georgia.*

- Planned and executed programs related to the professional development of Graduate Teaching Assistants, especially as related to teaching in higher education. Programs included *Graduate Seminar on College Teaching*, *the Future Faculty Program*, and the *Annual Teaching Assistant Orientation*.

Instructor (2014-2016). *Duke University Talent Identification Program (TIP) at Davidson College and University of Georgia.*

- *The Brain, Intelligence, and Creativity*: The summer courses at Duke TIP are three-week courses for gifted students in middle school and high school. This course examines the intersection of neuroscience and psychology as it relates to intelligence and creativity.

Instructor of Record (2014-2015). *University of Georgia*.

- *EPSY 2130: Exploring Learning and Teaching* is an undergraduate course focused on understanding how students learn by combining research in theory and practice.

Graduate Teaching Assistant (2013-2014). *University of Georgia*.

- *ERSH 6300: Applied Statistical Methods in Education*. Supervisor: Dr. April Galyardt
- This course teaches students techniques for describing and summarizing data for educational research and is a pre-requisite course for all other graduate educational measurement courses in the College of Education.
- Taught classes, facilitated computer labs, and graded student tests and assignments.

Graduate Research Assistant (2011-2013). *University of Georgia*.

- *A longitudinal study of 3-D spatial skills and mathematics development in elementary school children* funded by Institute of Education Sciences (IES) Grant R305A110920. Principal Investigator: Dr. Martha Carr
- Collected data at multiple elementary schools with team of five research assistants.
- Tested second through fourth grade students on a battery of mathematics measures.
- Coded and scored recorded interview videos for accuracy and strategy use during mathematics problem solving.
- Assisted with data analyses and writing up results for publication.

Graduate Research Assistant (2010-2011). *Stony Brook University*.

- *How is early social experience represented in the mind? Script-based assessment of secure base representations in children and adults* (funded by the Cox Steiner Foundation). Principal Investigator: Dr. Harriet S. Water.
- Conducted and scored interviews with parent, child, and undergraduate participants analyzing data for a secure base script.

Graduate Research Assistant (2010-2011). *University of Eastern Michigan*.

- *Secure base script research: Collaborative study between Stony Brook University and the University of Eastern Michigan*. Principal Investigator: Dr. Alissa Huth-Bock.
- Scored interviews with parent, child, and undergraduate participants analyzing data for a secure base script for reliability.

PUBLICATIONS**Report**

McConnell, K., Horan, E. M., Zimmerman, B., & Rhodes, T. (2019). *We have a rubric for that: The VALUE approach to assessment*. Washington, DC: Association of American Colleges and Universities.

Peer Reviewed Publications

Horan, E. & Carr, M. (2018). A review of guidance and structure in elementary school mathematics instruction. *Review of Science, Mathematics and ICT Education*, 12(2), 41-60.

Horan, E. & Carr, M. (2018). How much guidance do students need? An intervention study on kindergarten mathematics with manipulatives. *International Journal of Educational Psychology* 7(3), 286-316. doi:10.17583.ijep.2018.3672

Carr, M., Alexeev, N., Wang, L., Barned N., Horan, E., & Reed, A. (2017). The development of spatial skills in elementary school students. *Child Development*, 89(2), 446-460. doi:10.1111/cdev.12753

Published Conference Proceedings

Kim, S., Bao, Y., Horan, E., Kim, M., & Cohen, A. (2014, July). Gauss-hermite quadrature in marginal maximum likelihood estimation of item parameters. *Quantitative Psychology Research: The 79Th Annual Meeting of The Psychometric Society*, 43. Madison, Wisconsin. doi:10.1007/978-3-319-19977-1_4

NATIONAL and INTERNATIONAL CONFERENCE PRESENTATIONS

Horan, E., Rhodes, T., McConnell, K. D. (2018, May 31). *Data collection techniques that lead to efficient large-scale analysis*. Poster presented at the 2018 Association for Institutional Research Forum, Orlando, Florida.

Horan, E. & Carr, M. (2018, April). *How much guidance do students need? An intervention study on kindergarten mathematics with manipulatives*. Paper presented in roundtable session Understanding Young Children's Mathematical Learning at the 2018 American Educational Research Association Annual Meeting, New York, New York.

McConnell, K. & Horan, E. (2018, February). *Lessons learned from the multi-state collaborative*. Session presented at the Association of American Colleges and Universities 2018 General Education and Assessment Conference: Foundations for Democracy, Philadelphia, Pennsylvania.

Horan, E., McConnell, K., & Rhodes, T. (2017, November 16). *Faculty performing institutional assessment: How the AAC&U VALUE rubrics encourage faculty support and a campus culture that supports assessment*. Virginia Assessment Group Annual Conference, Richmond, Virginia.

McConnell, K., Rhodes, T., & Horan, E. (2017, November 3). *The VALUE rubric approach as pedagogical innovation: A powerful faculty development opportunity around assessment*. 2017 New England Educational Assessment Network (NEean) Fall Forum. Worcester, Massachusetts.

Rhodes, T. & Horan, E. (2017, June 1). *Introduction to VALUE rubric calibration*. Workshop presented at the Association of American Colleges and Universities 2017 Institute on General Education and Assessment. Chicago, Illinois.

Carr, M., Sorby, S., Uttal, D., Veurink, N., and Horan, E. (2017, April 5). *Improving girls' mathematics achievement by improving spatial skills*. Session presented at the 2017 National Council of Teachers of Mathematics Annual Meeting, San Antonio, Texas.

Carr, M. & Horan, E. (2017, April 4). *Spatial skills and mathematics problem solving*. Panelist at the 2017 National Council of Teachers of Mathematics Research Conference, San Antonio, Texas.

Horan, E. & Cozart, D. (2017, February 15). *Practice what you preach Engaging your students as they learn constructivist theory*. Workshop presented at the 9th Annual Conference on Higher Education Pedagogy. Blacksburg, Virginia.

Morris, Z. H., Horan, E., Barnes, M., Catalana, S. M., Coffmnn, R., Ishibashi, C. (2017, February). *Evaluating how a graduate student learning community can enhance teaching, collaborative, and*

mentorship competency development. Poster presented at the 9th Annual Conference on Higher Education Pedagogy, Blacksburg, Virginia.

Cozart, D., & Horan, E. (2016, February). *To buy or not to buy: Rethinking the traditional textbook*. Session presented at the 8th Annual Conference on Higher Education Pedagogy, Blacksburg, Virginia.

Carr, M., Alexeev, N., Wang, L., Barned, N., & Horan, E. (2015, April). *The developmental trajectory of spatial skills as predictors of mathematics achievement*. Poster presented at the American Educational Research Association Conference, Chicago, Illinois.

Carr, M., Alexeev, N., Horan, E., Barned, N., & Wang, L., (2015, March). *Spatial skills in elementary school predict trajectory of number sense development and achievement*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, Pennsylvania.

Kim, S., Bao, Y., Horan, E., Kim, M., & Cohen, A. (2014, July). *Gauss-hermite quadrature in marginal maximum likelihood estimation of item parameters*. Paper presented at the 2014 78th Annual Meeting of the Psychometric Society, Madison, Wisconsin.

Carr, M., Alexeev, N., Barned, N., Wang, L., Horan, E., Reed, A., & Bray, B. (2013, April). *Spatial visualization and perception predict change in number sense*. Poster presented at the 2013 Society for Research in Child Development Biennial Meeting, Seattle, Washington.

Waters, H. S., Scandariato, I., Waters, T., Bianchini, A. E., Horan, E., & Bosmans, G. (2011, March). *Middle childhood attachment narratives: Organized around a secure base script?* Poster presented at the 2011 Society for Research in Child Development Biennial Meeting, Montreal, Canada.

LOCAL CONFERENCE PRESENTATIONS

Horan, E., & Carr, M. (2016, April). *Guidance and structure in mathematics instruction*. Poster presented at the 2016 College of Education Graduate Student/Faculty Research Conference, Athens, Georgia.

Piperato, S., & Horan, E. (2016, February). *The impacts of school influenced healthy practices on academic performance: Physical education, bullying, and grades*. Session presented at the 2016 University of Georgia Interdisciplinary Research Conference, Athens, Georgia.

Horan, E. & Yoruk, S. (2015, February). *Creativity and mathematics: Do divergent thinking skills affect mathematics strategy use? A review*. Session presented at the 2015 University of Georgia Interdisciplinary Research Conference, Athens, Georgia.

Horan, E. (2015, February). *Mathematics manipulatives: How much guidance do students need?* Poster presented at the 2015 College of Education Graduate Student/Faculty Research Conference, Athens, Georgia.

Horan, E. (2014, April). *The efficacy of teaching elementary school students mathematics with manipulatives*. Poster presented at the 2014 College of Education Graduate Student/Faculty Research Conference, Athens, Georgia.

Horan, E. (2014, February). *Science achievement as a mediator in the relationship between gender and mathematics achievement: An analysis using the TIMSS database*. Session presented at the 2014 University of Georgia Interdisciplinary Research Conference, Athens, Georgia.

Horan, E., & Stamatel, Janet. P. (2007, April). *Revisiting nations not obsessed with crime*. Poster presented at the University at Albany Fourth Annual Undergraduate Research Conference, Albany, NY.

FACILITATED WORKSHOPS AND SEMINARS

Horan, E. (2017, December). *Introduction to NVivo*. Workshop presented at the Association of American Colleges and Universities, Washington, DC.

Horan, E. (2017, November). *Introduction to Qualtrics workshop*. Workshop presented at the Association of American Colleges and Universities, Washington, DC.

Horan, E. (2017, October). *Preparing for the post grad job search: Opportunities on and off the tenure track*. Invited lecture presented for the course: PSYC 8990 Department of Psychology Professional Seminar. University of Georgia, Athens, GA.

Horan, E. (2017, February 1). *Active learning in STEM courses: What, when, and how?* Workshop presented at the University of Georgia Center for Teaching and Learning Spring Workshop Series. Athens, Georgia.

Glynn, S. & Horan, E. (2016, August 24). *UGA online teaching and learning: Best practices*. Workshop presented at the University of Georgia Center for Teaching and Learning Award Winning Faculty Series. Athens, Georgia.

Glynn, S. & Horan, E. (2016, March 16). *eLC exam best practices: Administration, grading, and student feedback*. Workshop presented at the University of Georgia Center for Teaching and Learning Spring Workshop Series. Athens, Georgia.

Horan, E. (2015, September). *First generation*. Invited panelist for the University of Georgia Center for Teaching and Learning First Generation Student Panel Discussion, Athens, GA.

Horan, E. (2015, August). *Lab and office hours TAs*. Invited panelist for the University of Georgia Center for Teaching and Learning Teaching Assistant Orientation, Athens, GA.

Glynn, S., & Horan, E. (2014, October). *Online courses: What instructors and students like and dislike*. Session presented at the College of Education Innovation in Teaching Conference, Athens, Georgia.

Horan, E. (2013, April). *Gender differences in elementary students' mathematics and spatial skills*. Invited lecture presented for the course: EPSY 6800 Foundations of Cognition for Education. University of Georgia, Athens, GA.

Horan, E. (2013, February). *Using the Trends in International Mathematics and Science Study (TIMSS) data*. Invited lecture presented for the course: EPSY 8990 Doctoral Seminar in Educational Psychology. University of Georgia, Athens, GA.

Horan, E. (2011, April). *Problem solving strategies and techniques for facilitating effective problem-solving practices*. Invited lecture presented for the course: PSY 327 Human Growth and Development in the Educational Context. Stony Brook University, Stony Brook, NY.

HONORS and AWARDS

- National Center for Educational Sciences (NCES) Data Institute: Using Federal Datasets to Support Research on Postsecondary Education Participant. (2018). Association for Institutional Research.
- Outstanding Teaching Assistant Award. (2015). University of Georgia.
- Barbara Day Laureate Scholarship Award. (2015). Kappa Delta Pi International Scholarship Program.
- Thank-a-Teacher Recognition. (2014). University of Georgia Center for Teaching and Learning.
- Graduate School Assistantship Award. (2011-2013). University of Georgia Graduate School.

SERVICE

- Managing Editor. (2017-Present). International Journal of Teaching and Learning in Higher Education (IJTLHE).
- Secretary. (2016-2017). Kappa Delta Pi, Beta Kappa University of Georgia Chapter.
- Facilitator. (2015-2017). Mid-Semester Formative Evaluations (MSFE), University of Georgia Center for Teaching and Learning, 2015-2017.
- Event Coordinator and Panel Moderator. (2016). University of Georgia Teaching Assistant Orientation.
- Search Committee Member. (2016). Center for Teaching and Learning search for Assistant Director for Teaching Assistant Development and Recognition.
- Chair for Media and Public Relations Board. (2016). University of Georgia Interdisciplinary Research Conference.
- Committee Member. (2015-2016). College of Education Graduate Student Travel Committee, University of Georgia.
- Secretary. (2014-2015). Kappa Delta Pi, Beta Kappa University of Georgia Chapter.
- Search Committee Member. (2014). Educational Psychology Department.
- President. (2013-2014). Graduate Researchers in Educational Psychology (GREP), University of Georgia College of Education.
- Member at Large. (2011-2012). Graduate Researchers in Educational Psychology (GREP), University of Georgia College of Education.

REVIEWER

- International Journal of Teaching and Learning in Higher Education (IJTLHE)
- American Psychological Association - Division 15 2016 Meeting in Denver
- Learning and Instruction
- Learning and Individual Differences

PROFESSIONAL AFFILIATIONS

- Association for Institutional Research (AIR). (2018-Present).
- American Educational Research Association (AERA). (2014-Present).
- Kappa Delta Pi, Beta Kappa University of Georgia Chapter. (2014-Present).
- American Psychological Association (APA), Division 15. (2013-Present).

ANALYTIC and OTHER PROGRAM EXPERIENCE

Proficient with SPSS, NVivo, SAS, and R statistics software; Qualtrics; Wordpress; Learning management systems (Desire2Learn; Blackboard)

Familiar with HLM, flexMIRT, Mplus EQS, AMOS, BILOG, WINMIRA, and IRTPRO statistics software

REFERENCES

Dr. C. Edward Watson, Associate Vice President, Quality, Advocacy, and LEAP Initiatives. Association of American Colleges and Universities (AAC&U). 1818 R St. NW. Washington, DC 20009. (202) 884-0819, watson@aacu.org

Dr. Terrel Rhodes, Vice President for Quality, Curriculum, and Assessment, and Executive Director of VALUE. AAC&U. 1818 R St. NW. Washington, DC 20009. (202) 884-0807, rhodes@aacu.org

Dr. Shawn M. Glynn, Josiah Meigs Distinguished Teaching Professor, Educational Psychology and Science Education, University of Georgia, Athens, GA 30605. (706) 542-4249, sglynn@uga.edu

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