

Erin Maria Horan, PhD

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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

Academic Appointments

2020-Present. Assistant Director for Research, Assessment & Pedagogy. Center for Teaching, Research & Learning; American University.

2019-2020. Instructional Designer. Center for Teaching, Research & Learning; American University.

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

2015-2017. Graduate Assistant for Teaching Assistant Development and Recognition. Center for Teaching and Learning; University of Georgia.

Courses Taught

Psychology as a Natural Science (PSYC 115). Undergraduate, taught both in-person and online sections of this course. Department of Psychology, American University.

Theories of Educational Psychology and Human Development (EDU 620). Graduate, online course. Eight-week summer course. School of Education, American University.

Applied Project in Educational Psychology (ERSH 7650E). Graduate, online. Capstone course for MEd Program. Department of Educational Psychology, University of Georgia.

Action Research (ERSH 7500E). Online, graduate course. Department of Educational Psychology, University of Georgia.

Foundations of Cognition for Education (EPSY 6800E). Online, graduate course. Department of Educational Psychology, University of Georgia.

Exploring Learning and Teaching (EPSY 2130). In-person, undergraduate course. Department of Educational Psychology, University of Georgia.

Research Experience

2020-Present. Investigator. Collaborative Research: Augmenting Remote Medical Procedure Training and Assistance with Spatial Computing and Volumetric Capture. National Science Foundation Grant Award number 2026505. \$897,306.00. Principal Investigator: Dr. Neal Sikka, George Washington University.

2017-2019. Postdoctoral Research Analyst. Association of American Colleges and Universities (AAC&U) researcher for the Valid Assessment of Learning in Undergraduate Education (VALUE) initiatives. VALUE research funded by the Spencer Foundation and the Lumina Foundation. Director of VALUE: Dr. Kate McConnell, AAC&U.

2011-2013. Graduate Research Assistant. 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, University of Georgia.

2010-2011. Graduate Research Assistant. Department of Psychology; 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. Waters, Stony Brook University.

Publications

Cozart, D., Horan, E. M., Frome, G. (2021). Rethinking the traditional textbook. A case for open educational resources (OER) and no-cost learning materials. *Teaching and Learning Inquiry*, 9(2). <https://doi.org/10.20343/teachlearninqu.9.2.13>

Horan, E. M. & Kim, K. (2021). Faculty perceptions of the spring 2020 transition from face-to-face to online instruction: A case study of American University with takeaways and lessons learned. *Journal on Centers for Teaching and Learning*, 12, 169-188. <https://openjournal.lib.miamioh.edu/index.php/jctl/article/view/214/114>

Horan, E. (2020). Review: ePortfolio as curriculum: Models and practices for developing students' ePortfolio literacy. *International Journal of ePortfolio*, 10(1). <http://theijep.com/pdf/IJEP350.pdf>

Carr, M., Horan, E., Alexeev, N., Barned, N., Wang, L., & Otumfuor, B. (2019). A longitudinal study of spatial skills and number development in elementary school. *Journal of Educational Psychology*. Advance online publication. <http://dx.doi.org/10.1037/edu0000363>

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

Finley, A. & Horan, E. (2018) From application to action plan: How the language of gen ed reform changes over time. *Peer Review* 20(3). <https://www.aacu.org/peerreview/2018/Summer/Research>

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. <http://doi.org/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. <http://doi.org/10.1111/cdev.12753>

National and International Conference Presentations

Rebol, M., Hood, C., Ranniger, C., Rutenberg, A., Sikka, A., Horan, E. M., Gütl, C., and Pietroszek, K. (2021). *Remote assistance with mixed reality for procedural tasks*. Paper presented at the 2021 Institute of Electrical and Electronics Engineers (IEEE) Conference on Virtual Reality and 3D User Interfaces, 653-654. Lisbon, Portugal. <http://www.doi.org/10.1109/VRW52623.2021.00209>

Westemeier, K. & Horan, E. (2020, January 24). *Strategies to maximize (international) student participation*. Session presented at the 2020 Association of American College and Universities (AAC&U) Annual Meeting, Washington, DC.

Horan, E., McConnell, K. D., & Rhodes, T. (2019, April 8). *Exploring the validity of the valid assessment of learning in undergraduate education rubrics using the standards for educational and psychological testing*. Paper presented during paper session Faculty and Assessment: Inside and Outside the Classroom at the 2019 American Educational Research Association Annual Meeting, Toronto, Canada.

Zimmerman, B. & Horan, E. (2019, January 23). *What others are saying: VALUE in the literature*. Session presented at the 2019 Association of American Colleges and Universities Annual Meeting, Atlanta, Georgia.

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., Coffmann, R., Ishibashi, C. (2017, February). *Evaluating how a graduate student learning community can enhance teaching, collaboration, 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., Banned, 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., Banned, 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. *Quantitative Psychology Research: The 79th Annual Meeting of The Psychometric Society*, 43. http://doi.org/10.1007/978-3-319-19977-1_4

Carr, M., Alexeev, N., Banned, 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.

Selected Campus Talks

Roccamo, A. & Horan, E. (2021, August 18). *Fall 2021: Transitioning back to face-to-face instruction*. Center for Teaching, Research & Learning August Faculty Workshops, American University.

Dagne, M. & Horan, E. (2021, August 10). *A trauma-informed fall 2021 semester*. Session presented at the American University Foundations Summit: Supporting Student Well-Being, Washington, DC.

Horan, E. (2021, January 12). *Student engagement in the virtual classroom*. New Adjunct Faculty Orientation, American University.

Meiller, J. & Horan, E. (2021, January 8). *Studying your teaching: A "how-to" workshop*. American University Ann Ferren Conference on Teaching, Research & Learning, Washington, DC.

Horan, E. (2020, November 10). *Introduction to the teaching portfolio approach at American University*. Center for Teaching, Research & Learning Workshops, American University.

Horan, E. (2020, October 13). *Collecting and addressing midsemester student feedback*. Center for Teaching, Research & Learning Workshops, American University.

Horan, E. & Meiller, J. (2020, January 10). *Embodying scholarly teaching with the scholarship of teaching and learning*. Ann Ferren Conference on Teaching, Research & Learning, American University.

Honors and Awards

2018. National Center for Educational Sciences (NCES) Data Institute: Using Federal Datasets to Support Research on Postsecondary Education. Association for Institutional Research.

2015. Outstanding Teaching Assistant Award. (2015). University of Georgia.

2015. Barbara Day Laureate Scholarship Award. (2015). Kappa Delta Pi International Scholarship Program.

2014. Thank-a-Teacher Recognition. (2014). University of Georgia Center for Teaching and Learning.

2011-2013. Graduate School Assistantship Award. (2011-2013). University of Georgia Graduate School.

Service to the Profession

2021. Search Committee Chair. Center for Teaching, Research, and Learning search for Instructional Designer, American University.

2017-2021. Managing Editor. International Journal for Teaching and Learning in Higher Education (IJTLHE).

2016-2017. Secretary. Kappa Delta Pi, Beta Kappa University of Georgia Chapter.

2015-2017. Facilitator. Mid-Semester Formative Evaluations (MSFE), University of Georgia Center for Teaching and Learning, 2015-2017.

2015-2016. Event Coordinator and Panel Moderator. University of Georgia Teaching Assistant Orientation.

2016. Search Committee Member. Center for Teaching and Learning search for Assistant Director for Teaching Assistant Development and Recognition, University of Georgia.

2016. Chair for Media and Public Relations Board. University of Georgia Interdisciplinary Research Conference.

2015-2016. Committee Member. College of Education Graduate Student Travel Committee, University of Georgia.

2015. Invited panelist for the University of Georgia Center for Teaching and Learning First Generation Student Panel Discussion, Athens, GA.

2014-2015. Secretary. Kappa Delta Pi, Beta Kappa University of Georgia Chapter.

2014. Search Committee Member. Educational Psychology Department.

2013-2014. President. Graduate Researchers in Educational Psychology (GREP), University of Georgia College of Education.

2011-2012. Member at Large. Graduate Researchers in Educational Psychology (GREP), University of Georgia College of Education.

Related Professional Skills

Proficient with SPSS, NVivo; Qualtrics; Wordpress; Learning management systems (Desire2Learn; Blackboard, Canvas)

References

Available upon request. Please feel free to send me an email: ehoran00@gmail.com.

Updated October 9th, 2021