

Joseph E. Schroer, Ph.D.

University of Wyoming

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Areas of Understanding, Educational Neuroscience-*EEG*, Spatial Reasoning; Mindfulness, Nature Education, Peace & Cooperative Learning; Qualitative- *nvivo* & Quantitative Research- *R*, Matlab, Python, Tableau; Rasch Modeling.

Higher Education Employment

2019-Current Assistant Professional Lecturer. University of Wyoming

2013-2018 Clinical Faculty of Educational Psychology. Miami University Ohio

2011-13 Assistant Professor of Educational Psychology. Purdue University North Central

Education

2011 Doctor of Philosophy. Educational Studies University of Cincinnati, Cincinnati, OH.
Related Areas: Educational Psychology, Qualitative & Quantitative Methods, and Peace Education
Dissertation: *The Psychosocial Effects of the French Republican Model of Education*.

2007 Master of Arts Secondary Education- University of Cincinnati, Cincinnati, OH.

2005 Bachelor of Science. Secondary Education- University of Cincinnati, Cincinnati, OH.

2002 Bachelor of Arts. French- University of Cincinnati, Cincinnati, OH.

Publications

Schroer, J.E. & Thomas, R. D. (2019-*Under Review*). Learning the Law of Reflection: Event-Related Potentials of Children Aged 6-12 during Educational Video Game Play. *Mind, Brain, & Education*.

Shea, H., Mosley-Howard, G. S., Baldwin, D., Ironstrack, G., Rousmaniere, K., & **Schroer, J. E.** (2019). Cultural revitalization as a restorative process to combat racial and cultural trauma and promote living well. *Cultural diversity & ethnic minority psychology*.

Bergen, D., **Schroer, J.E.**, Woodin, M., (2017). *Brain Research in Education and the Social Sciences: Implications for Teachers, Parents, and Future Society*. NY: Routledge.

Bergen, D., **Schroer, J.E.**, Thomas, R., Zhang, Z., Chou, M., Chou, T. (2017). ERP Responses of Elementary Age Children to Videogame Simulations of Two Stimuli Types: Study 1 and 2 Comparisons. *Journal of Research in Childhood Education*.

Dong, A., **Schroer, J.**, Chen, J., Lee, L. & Tu, X. (2016). Apps and Brains: Young Children Learning With Technology. In *Proceedings of Society for Information Technology & Teacher*

Education International Conference 2016 (pp. 1421-1426). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE)

Schroer, J.E. & Covault, J. (2015). Using Peaceful Literature Circles to Increase Critical Thinking. *The Ohio Reading Teacher*. 44 (2).

Schroer, J.E. & Finley, L. (2014). PJSA position paper on anti-bullying education in p-16 environment focusing on LGBTQ students. Op-Ed published nationwide in multiple newspapers.

Selected Conference Presentations

Schroer, J.E., Thomas, R. (2018, January). Children Ages 6-12 Learning Optical Spatial Reasoning During Educational Video Game Play: *An ERP study examining the role of cognitive load*. Presentation at 2018 International Conference on Spatial Reasoning supported by the STEM Education Research Centre (SERC) at the University of Canberra, Australia.

Schroer, J.E. (2017, October). *Children, Technology, and the Brain*. Talk given at MWERA Annual conference in Evanston, IL.

Bergen, D., Schroer, J.E., Davis, D. (2017, February). *At the Intersection of Play and Technology*. Symposia at The International Association for Play Conference, Rochester, NY.

Schroer, J.E., Bergen, D., Thomas, R., Tu, X., Woodbury, G. (2016, May). *Event-Related Potential of Children Aged 6-12 during Naive Optics Educational Video Game Play Show Positive Wave Amplitudes at Pz*. Poster presented at the Annual meeting of the American Psychological Society, Chicago, IL.

Bergen, D., Schroer, J.E., Thomas, R., Zhang, X., Chou, M., Chou, T. (2015). *Child ERP Responses to Two Stimuli Types in Videogame Simulations: Study 1 and 2 Comparisons*. Paper presentation at American Education Research Association, Chicago, IL.

Schroer, J.E. & Cosmah, M. (2014). *Project-Based Learning in Higher Education Classrooms: How to begin*. Poster presentation at the 34th annual International Lilly Conference on Teaching in Higher Education. Miami University Ohio.

Schroer, J.E., (2014). *Rasch Analysis of the Social Justice Scale*. Ohio River Valley Objective Measurement Seminar (ORVOMS) Annual conference Cincinnati Children's Hospital Medical Center, Cincinnati, OH.

Schroer, J.E., (2013). *Peaceful Argumentation in the Elementary Classroom*. Peace and Social Justice Studies annual conference in Waterloo, Canada.

Invited Talks

Schroer, J.E., (April, 2017). *Children Learning Optical Spatial Reasoning During Educational Video Game Play*. University of Wisconsin, Madison.

Schroer, J.E., (January, 2017). *ERPs of Children Aged 6-12 during Optical Spatial Reasoning Video Game Play*. University of Nebraska, Lincoln.

Grants Submitted

Schroer, J.E., Thomas, R.D. (2017) NSF Core Research Level 1- *Shining Light on Spatial Reasoning: Understanding How Children and Adolescents Learn Spatial Reasoning Skills during 2D & 3D Educational Video Game Play*- \$494,698.00-under review

Schroer, J.E., Miller, P.C. (Fall 2012). Educating the Whole Student: Creating Positive School and Community Environments through the use of Peace Circles & Restorative Justice. IES Educational Research Grant CFDA # 84.305A. Total: \$1.4 million- (*not funded*)

Schroer, J.E., Covault, J. (2012). Developing Learning through Peaceful Argumentation. Spencer Foundation Research Grant. Total: \$40k- (*not funded*).

Courses Taught at Wyoming

EDST2450 Foundations of Human Development and Learning

EDST3550 Educational Assessment (Spring 20)

EDCI5400 Portfolio Reflection (Spring 20)

Higher Education Courses Taught

EDP 101 Psychology of the Learner

EDP 201 Human Development and Learning in Social Educational Contexts (hybrid)

EDPS 235 Educational Psychology

EDP 272 Introduction to Disability Studies

EDPS 265 The Inclusive Classroom

EDPS 306 The Exceptional Learner

EDPS 309 Human and Adolescent Development

*EDP 324 Research and Writing Across the Disciplines

EDPS 430 Creating and Managing Learning Environments

*EDP 432/532 Assessment, Evaluation, & Planning in Early Childhood Age 3-8

EDPS 530 Introduction to Research Methods

EDPS 535 Advanced Educational Psychology (hybrid)

EDP 601 Advanced Educational Psychology

EDP 603 Theories of Human Learning

EDP 621 Classroom Group Behavior

EDP 650A Current Trends in Assessment in Special Education (SEOH program)

EDP 652 Research Methods

Invited Speaker

ENG 413 Grant Writing

ENG 412 Print and Digital Editing

GEO/SJS 159 Creating Global Peace

Professional Service*Professional Memberships*

2019- current International Mind, Brain, and Education Society

2019- current Northern Rocky Mountain Education Research Association

2007- Peace and Justice Studies Association.

2011-2019 Mid-West Education Research Association

2019- Vice-President & Conference Co-Chair
 2017- Vice-President Elect
 2013-2018- MWERA Division C Chair
 2014-16 Advisory Council
 2013- American Education Research Association

Reviewer

International Journal of School Psychology
 Mid-West Educator
 Critical Inquiry in Language Studies

Professional Workshops

Schroer, J.E. (2016) Incorporating the Peaceful Argumentation Approach (PAA) into Literature Circles. Douglass Elementary, Cincinnati, OH.
 Schroer, J.E. (2014-16): Developing assessments with a focus on higher level thinking. New Faculty Training, Miami University, OH
 Schroer, J.E. (2012) Recruitment of Diverse Teacher Candidates: Engaging a Community. Education Department, Purdue University North Central, IN.

Formal Professional Development

2019 Course in Introduction to Programming for Data Science, University of Wyoming
 2018 Courses in Data Science from The Ohio State University
 2017 Project Learning Tree Early Childhood Certification
 2016 Green Classroom Professional Certificate; US Green Building Council
 2014-16 Courses in Cognitive Neuroscience PSY 274, 710, 720, Miami University Ohio
 2014-16 Faculty Learning Community: Mindfulness
 2014 Project-Based Learning Professional Development: Received training in PBL from Manor New Tech High School (TX) trainers; implementation in Spr. 2014 courses.
 2014 Miami University Grant Writing workshop
 2014 New Faculty Training & Education Program (NFTEP) completion
 2013 NAME Summer Institute: *Attracting and retaining diverse faculty and teacher candidates*. Presented findings and recommendations at PNC.
 2011 Certificate in Peace Education- University of Cincinnati Urban Center for Peace and Justice Studies

Academic Teaching Positions

2009-11 French Teacher, National Trail High School, New Paris, OH
 2007-08 Graduate Teaching Assistant: Educational Psychology. University of Cincinnati, OH
 2007-08 Adjunct Instructor: University of Cincinnati Clermont, Cincinnati, OH.
 2004-07 French Teacher. Colerain High School, Cincinnati, OH

Licenses, Registrations, and Certifications

Ohio Teacher's License in Foreign Language; French, Grades PreK-12 (2004 to present).

International Experiences

2016-18 Internal Grant Evaluation Obama-Singh Indo-U.S. Grant evaluating and developing cultural competency models in the US and India.
 2014-16 Co-Teacher EDT455- European Capstone: Led students in the development of a senior capstone study comparing U.S. and European Schools.

2008-09 Lecteur d'Anglais- English Lecturer, ESL, Université de Metz Paul Verlaine, Metz,
France

2002-03 Assistant d'Anglais- English Assistant, Lycée Freppel, Obernai, France.

Committee Positions at Wyoming

2019-2022 University Studies Committee

Personal/Social Activities

Soccer Player/Coach, Weightlifting, Running, Mindfulness, Yoga, Hiking

Founder of nonprofit: www.greenstems.org