

Kelly D. Bradley, Ph.D.

Dean, College of Education and Professional Development, Marshall University

kelly.bradley@marshall.edu

Leadership Profile

An authentic, relationship-centered leader dedicated to shared governance, transparency, and innovation in higher education. Passionate about fostering collaboration, empowering faculty, staff, and students, and driving meaningful institutional impact through research, policy, and community engagement. A committed educator and mentor who champions professional growth, student success, and lifelong learning.

Education

The Ohio State University, Columbus, OH, Ph.D. Quantitative Research, Evaluation, and Measurement in Education Cognate: Sociology	2002
University of South Carolina, Columbia, SC, M.S. Statistics	1999
Fairmont State College, Fairmont, WV, B.S. & B.A. B.S. Double Major: Mathematics and Sociology B.A. Major: Mathematics Education (5-12)	1996

Certifications

Mathematics: 5 – 12 Teaching Certificate | West Virginia (not active)

Experience

Department of Educational Policy Studies and Evaluation University of Kentucky Lexington, KY - Emeritus Professor (appointment October 1, 2025) - Professor (appointment July 1, 2015) - Associate Professor (appointment July 1, 2008) - Assistant Professor (appointment August 15, 2002) Program Chair, Research Methods and Policy in Education2016 – 2025 Department Chair, Educational Policy Studies and Evaluation2018 – 2023 Interim Director of Graduate Studies, Educational Policy Studies and Evaluation2015 – 2016	
The Ohio State University Columbus, OH - Research Assistant, Evaluation and Research Center - Teaching Assistant and Grader	1999 – 2002
DeVry University Columbus, OH Adjunct Faculty, Department of Mathematics	1999 – 2001
Midlands Tech College Columbia, SC Adjunct Faculty, Department of Mathematics	1998 – 1999
University of South Carolina Columbia, SC - Teaching Assistant and Evening School Instructor - Research Assistant, Data Analysis and Consultation Service	1997 – 1999
Sissonville High School Kanawha County Board of Education Charleston, WV - Long-term Substitute of Science, Physics, and Honors Science 9 - Assistant Boys' Basketball Coach and Head Freshman Boys Coach	1996 – 1997

Publications

Selected Articles

- Bradley, K.D.**, Patterson, J., Tuck, M., Parker, J., & Michaluk, L. Critically Evaluating a Non-Cognitive Measure: A Rasch Analysis of LSAMP Participants. Submitted for special issue, *Interdisciplinary Perspectives on Critical Quantitative Methodologies: Challenging Assumptions and Advancing Social Justice in Data Analysis*
- Niu, C., & **Bradley, K.D.** (Under review). Comparing two statistical methods for validating rater-mediated performance assessments: A research note. *Journal of Survey Statistics and Methodology*.
- Niu, C., **Bradley, K.D.**, & Mohr-Schroeder, M. (Under review). Rate to measure mathematics teaching: Using many-facet Rasch modeling to re-validate the Mathematics Classroom Observation Protocol for Practices (MCOP2). *Journal for Research in Mathematics Education*.
- Metibemu, M., Omisakin, J., Desmennu, O., Odock, M., & **Bradley, K.D.** (Under review). Predictive Modeling of Mathematical Ability in Lagos Senior School Students Using Machine Learning. *International Journal of Science and Mathematics Education*.
- Yang, H., Alanoglu, M., Karabatak, S., Su, J., & **Bradley, K.D.** (Accepted). A Categorical Confirmatory Factor Analysis for Validating the Turkish Version of Self-Directed Online Learning Scale (SDOLS-T). *International Review of Research in Open and Distributed Learning (IRRODL)*.
- Qiu, C., Peabody, M.R., **Bradley, K.D.** (2024). Exploring Construct Measures using Rasch Models and Discretization Methods to Analyze Existing Continuous Data. *Measurement: Interdisciplinary Research and Perspectives* 22 (1): 108-120.
- C. Oldham & **Bradley, K.D.** (2022). Exposing the Mythology of Balance: The Visibility of the Fall and Elevation of Resilience in COVID-19. *The Qualitative Report*.
- Robersshaw, K.L., **Bradley, K.D.**, & Waddington, R.J. (2022). Parent's Awareness and Perspectives of School Choice Scale: Psychometric Evidence Using Rasch Modelling. *Journal of School Choice*. 1-31. <https://doi.org/10.1080/15582159.2021.2004493>.
- Liu R. & **Bradley, K.D.** (2021). Differential Item Functioning Among English Language Learners on a Large-Scale Mathematics Assessment. *Frontiers in Psychology: Quantitative Psychology and Measurement*. <https://doi.org/10.3389/fpsyg.2021.657335>.
- Xiao, M., **Bradley, K.D.**, & Lee, J. (2021). Exploring the relationship between student involvement and first-to-second year retention at four-year postsecondary. *Mid-Western Educational Researcher*, 33(3), 199-205.
- Bradley, K.D.** & C. Oldham. (2020). To Publish or Parent? *The SoJo Journal: Educational Foundations and Social Justice Education*, 6(1-2), 87-96.
- Setari, A., **Bradley, K.D.**, Stanek, M., & Sampson, S.O. (2020). Validating a Victimization Risk Perception Scale for College Campuses. *Journal of Higher Education Management*, 35(24).
- Harrington, M.R., Ickes, M., **Bradley, K.D.**, & Noland, M. (2020). The Theory of Planned Behavior and USDA Summer Food Service Program. *Journal of Nutrition Education and Behavior*, 52(10), 944-951.
- Yang, H., Su, J., & **Bradley, K.D.** (2020). Applying the Rasch Model to Evaluate the Self-Directed Online Learning Scale (SDOLS) for Graduate Students. *International Review of Research in Open and Distributed Learning*, 21(3), 99-120.
- Bliss, K. T., Mensah, R., **Bradley, K.D.**, Rogers, A., & Thompson, F. (2018). Using a Transactional Model & Thematic Analysis to Evaluate a Minority Male Student Success Initiative to Improve Campus Experience & Retention. *International Journal of Assessment Tools in Education*, 5(4), 713-730.
- Springer, D.G., & **Bradley, K.D.** (2018). Investigating adjudicator bias in concert band evaluations: An application of the Many-Facets Rasch Model. *Musicae Scientiae*, 22(3), 377-393.
- Setari, A.P. & **Bradley, K.D.** (2017). Determining the Measurement Quality of a Montessori High School Teacher Evaluation Survey. *Journal of Montessori Research*, 3(1), 30-44.

Selected Articles (Continued)

- Bradley, K.D.**, Snyder, E.M. & Tombari, A.K. (2016). Higher Education End-Of-Course Evaluations: Assessing the Psychometric Properties Utilizing Exploratory Factor Analysis and Rasch Modeling Approaches. *International Journal of Assessment Tools in Education*, 3(1), 3-22.
- Bradley, K.D.**, Peabody, M.R., & Mensah, R.K. (2016). Applying the Many-Faceted Rasch Measurement Model to Explore Reviewer Ratings of Conference Proposals. *Journal of Applied Measurement*, 17(3), 283-292.
- Bradley, K.D.**, Peabody, M.R., Akers, K.S., & Knutson, N.M. (2015). Rating Scales in Survey Research: Using the Rasch Model to Illustrate Middle Category Measurement Flaw. *Survey Practice*, 8(1), 1-12.
- Bradley, K.D.**, Cunningham, J.D., & Gilman, R. (2013). Measuring Adolescent Life Satisfaction: A Psychometric Investigation of the Multidimensional Students' Life Satisfaction Scale (MSLSS). *Journal of Happiness Studies*.
- Sun, L., **Bradley, K.D.**, & Akers, K. (2012). A Multilevel Modeling Approach to Investigating Factors Impacting Science Achievement for Secondary School Students: PISA Hong Kong sample. *International Journal of Science Education*, 34(14), 2107-2125.
- Hasford, J. & **Bradley, K.D.** (2011). Validating measures of self-control via Rasch measurement. *Journal of Applied Business Research*, 27(6), 45-56.
- Clasey, J.L., **Bradley, K.D.**, Bradley, J.W., Long, D.E., & Griffith, J.R. (2011). A New BIA Equation Estimating the Body Composition of Young Children. *Obesity*, 19(9), 1813-1817.
- Bradley, K.D.** & Bradley, J.W. (2010). Exploring the Reliability, Validity, and Utility of a Higher Education Faculty Review Process. *Contemporary Issues in Education Research*, 3(4), 21-26.
- Mueller, C. & **Bradley, K.D.** (2009). Utilizing the Rasch Model to Develop and Evaluate Items for the Tacit Knowledge Inventory for Superintendents (TKIS). *International Journal of Knowledge Management*, 5(3), 73-93.
- Cunningham, J.D., **Bradley, K.D.** & Osborn, J. (2008). Assessing the Impact of Newton's Universe: Preliminary Findings Associated with Rural Middle School Students' & Teachers' Outcomes Linked to Inquiry-Based Physical Science. *ERS Spectrum, Journal of Research and Information*, 26(1), 39-44.
- Bishop, M., Stenhoff, D.M., **Bradley, K.D.**, & Allen, C.A. (2007). The Differential Effect of Epilepsy Labels on Employer Perceptions: Report of a Pilot Study. *Epilepsy & Behavior*, 11(3), 351-356.
- Jung, L.A. & **Bradley, K.D.** (2006). Special Education Service Delivery in Rural Areas: A Study of the Kindergarten Population using the ECLS-K. *Rural Special Education Quarterly*, 25 (4), 25-30.
- Floyd, E. & **Bradley, K.D.** (2006). Teaching Strategies Related to Successful Sight-Singing in Kentucky Choral Ensembles. *Update: Applications of Research in Music Education*, 25(1), 70-81.
- Bradley, K.D.** & Loadman, W.E. (2005). Urban Secondary Educators' Views of Teacher Recruitment and Retention. *NASSP Bulletin*, 89(644), 2-28.
- Bradley, K.D.** & Bradley, J.W. (2005). Evaluating a Math Instructor's Clarity: An Analysis of Low to Moderate Items Versus a High Inference Item. *Journal of College Teaching and Learning*, 2(8), 59-68.

Selected Book Chapters

- Sampson, S., **Bradley, K.D.**, Waddington, J. (2023). Setting up to Thrive by Anchoring in Evaluation. In Jared Keengwe (Ed). *Handbook of Research on Innovative Frameworks and Inclusive Models for Online Learning*. Chapter 6. IGI Global. DOI: 10.4018/978-1-6684-9072-3.
- Sampson, S.O., **Bradley, K.D.**, & Nelson, A. (2021). Creating a Structurally Sound Instrument by Utilizing Principles of Measurement Theory. In Harbaugh G. & Luhanga U. (Eds.), *Basic Elements of Survey Research in Education*. IGI Global.

Selected Book Chapters (Continued)

Sampson, S.O., **Bradley, K.D.**, Arrowsmith, H., Mensah, R. (2017). Implementing a Measurement Framework to Assess and Evaluate Student Readiness for Online Learning and Growth. In Keengwe, Sagini (Ed.), *Handbook of Research on Pedagogical Models for Next-Generation Teaching and Learning* (Chapter 17). IGI Global.

Bradley, K.D., Worley, L., Cunningham, J.D., & Bieber, J. (2014). Measuring Perceptions of New Faculty towards Research, Service, and Teaching in Higher Education. In S. Mukerji & P. Tripathi (Eds.), *Handbook of Research on Transnational Higher Education Management* (pp.247-257). IGI Global.

**** Not included: Reviews, Published Reports, and Published Conference Proceedings**

Grants / Funding to Date | Total Awarded = \$3,844,716

Under Review

Renewal (with new Methods program). Co-I, Program Coordinator. National Institute of Occupational Safety and Health. Occupational Safety and Health Education and Research Centers (T42): Central Appalachian Regional Education Research Center (CARERC).

Active Funding

09/01/2018 – 06/30/2025; NSF 17-579; Co-PI; *Louis Stokes STEM Pathways and Research Alliance: KY-WV LSAMP*. (\$3,500,000). **15% AYE (Currently working on a resubmission)**

01/2023 – 12/2027; US Department of Education; Co-I; Prichard Committee. Kentucky's Statewide Full-Service Community Schools Program. (\$3,283,392.00). **10% AYE**

Past (selected) Funding

9/2022-8/2023. College of Medicine Psychometrics. Internal UK Funding. (\$62,000).

09/01/2018 – 08/31/2023 (filing for no-cost extension due to covid). NSF 17-579; Co-PI; *Louis Stokes STEM Pathways and Research Alliance: KY-WV LSAMP*. (\$3,500,000).

11/01/2016 – 06/30/2018. Kentucky Department of Juvenile Justice; PI, *Victimization Survey Phase II:GMB UK Psychometric*. (\$57,371).

09/28/2015 – 06/30/2016. Kentucky Justice Cabinet; Co-PI; *Victimization Survey Support*. (\$20,680).

06/01/2011 – 06/30/2013. NSF 10-544; External Evaluator; Transforming Undergraduate Education in Science Technology, Engineering and Mathematics (TUES). *Environmental AIMS (Applied Investigations in Mathematics & Statistics)* (\$149,991).

01/01/2005 – 12/30/2009. NSF 04-553; Co-PI; REC Educational Research Initiative. *Assessing how distance learning for teachers can enable inquiry science in rural classrooms*. (\$1,998,833).

09/15/2004 – 06/30/2006. Kentucky Department of Education; Co-PI (PI on \$12,500 – Scope Account). *Prototype online formative assessment system*. (\$225,000).

10/01/2005 – 06/30/2005. Western Kentucky University; PI; KY EPSB. *Constructing a methodological training package for putting assessment into practice*. (\$30,551).

07/01/2004 – 09/30/2005. Kentucky Department of Education; Measurement Consultant. *2004 Evaluation of differentiated compensation*. (\$114,090).

Presentations

Recent selections

Bradley, K.D., Tierney, T., Patterson, J., & Tuck, M. (2024) Enhancing Inclusivity from Spaces to Belonging: LSAMP Students' Community Experiences at a Predominantly White Institution. *Submitted to MWERA 2024.*

Xiao, M., Flowers, R., & **Bradley, K.D.** (April, 2024). *Validating the Spiritual Development, Belonging, and Coping (SDBC) Scale for African American Football Student-Athletes*, Paper presented at 2024 American Educational Research Association Annual Meeting, Philadelphia, PA.

Xia, Y., **Bradley, K.D.**, & Jin R. (April, 2024). *Exploring the Criteria of Functional Matching in Anchor Item Selection Under the Rasch Framework*. Paper presented at 2024 American Educational Research Association Annual Meeting, Philadelphia, PA.

Peabody, M., Sampson, S.O., **Bradley, K.D.**, Ayoob, A. (April, 2023). *Investigating rater bias in Objective Structured Clinical Examinations under a Many-Facet Rasch model framework*. Paper presented at 2023 American Educational Research Association Annual Meeting, Chicago, IL.

Niu, C., **Bradley, K.D.**, Sampson, S., Jin, R., Xia, Y., Shen, L., Zhang, J., Wu, R. & Li, N. (June, 2021). *Simulation study: Evaluating Rater Category Ordering with the JML-Rasch-MFRM Model in Facets*. Poster presented at 2021 National Council on Measurement in Education (NCME) Annual Meeting, Baltimore, MD.

Bradley, K.D. (2021) American Educational Research Association (AERA); Invited Speaker Session, Division J Vice Presidential Session. The Faculty Work Life Needs of Mother-Scholars in the Time of COVID-19, Virtual.

Niu, C., Wilson, N., **Bradley, K.D.**, & Jin, R. (2021). *Simulation Study: The Effects of Missing Data on the Partial Credit Trees Differential Item Functioning Detection Performance*. Paper presented for the 2021 American Educational Research Association (AERA), Virtual.

Sampson, S., **Bradley, K.D.**, Peabody, M. (2019). *A Primer on Rasch measurement and analysis*. American Evaluation Association Post-Conference Workshop, 2:15-5:15 pm. November 16, 2019. Minneapolis, MN. Honorarium donated to student travel award fund.

Over 150 Peer-Reviewed National and Regional Conference Presentations

Various Invited Presentations, Professional Development and Training Sessions

Courses Taught

University of Kentucky

EPE/EDP 557: Educational Statistics (created course)

EPE/EDP 558: Educational Statistics II

EPE 619: Survey Research (created course)

ANT/EDP/EPE 620/Soc 622: Introduction to Evaluation

EPE/EDP/ANT 621: Advanced Evaluation

EDP 656: Methodology in Educational Research

EDP/EPE 660: Research Design & Analysis in Education

EPE 671: Manuscript Writing (created course)

EPE/EDP 712: Rasch Measurement (created course)

EPE 767: Residency and Dissertation Credit

EPE 785: Independent Study

EPE 798: Internship

Additional Courses Taught

Math Courses at DeVry University

Math Course at Midlands Tech College

Statistics Courses at the University of South Carolina

Awards, Recognition, and Service (selected)

Active member of Committee on Women in Science, Engineering and Medicine | National Academies

Active member of American Educational Research Association (AERA)

Active member of Mid-Western Educational Research Association (MWERA)

Active member of National Council of Measurement in Education (NCME)

Pursuing Global Engagement Certificate | 2023 – Current

College of Education Racial Equity Leadership Team | 2023 – 2024

Nominee for The Sarah Bennett Holmes Awards, University Faculty Category | 2024

Serve as reviewer and on editorial board of various journals

Sayre Parent Advisory Council | 2020 – Current

Strategic Leadership Certificate: The Chronicle of Higher Education | June 2023

HERS Equity-Minded Leadership Training: Centering Racial Equity | Fall 2023

Mid-Western Educational Research Association

Service to Organization Award | 2022, 2019

Student Recruitment Award | Various Years

Association Council | 2010 – 2012

University of Kentucky COE, SEC Professor Faculty Nominee | 2022, 2023

Sayre Athletic Boosters Treasurer | 2019 – 2024

Sayre Performing Arts Booster Treasurer | current

Governor Appointed School Curriculum, Assessment & Accountability Council | 2017 – 2022

American Educational Research Association

Educational Statisticians Chair | 2018 – 2020

Rasch SIG Program Chair | 2013 – 2015

Survey Methods SIG Chair | 2010 – 2012

University of Kentucky COE, Promotion, Tenure & Reappointment Committee Member | 2023 – current,
2015 – 2018

Committee Chair | 2016 – 2018

Central Kentucky Youth Football Board Member, Secretary | 2015 – 2017

School for the Performing and Creative Arts FOAS

co-President | 2015 – 2016

President | 2013 – 2014

Vice-President | 2011 – 2013

University of Kentucky COE Faculty Council Member | 2014 – 2018

FC Vice Chair | 2015 – 2017

FC Chair | 2017 – 2018

Montesori High School, Executive Board Member | 2014 – 2016

Lexington Singers, Board Member | 2014 – 2015

University of Kentucky, Teacher Course Evaluation Committee | 2013 – 2015

Quantitative Initiative for Policy and Social Research (QIPSR) Advisory Board | 2013 – 2015

University of Kentucky COE, Kappa Delta Pi Counselor | 2011 – 2012

Immanuel Baptist Upward Basketball, Volunteer coach and official | 2007 – 2019

University of Kentucky, Finalist for Provost Teaching Award

Sample of Doctorates Directed and Profession Positions

- Kathryn S. Akers, Assistant Vice Chancellor – Pennsylvania's State System of Higher Education
- Kimberly Chaffer-Schroeder, Founder, KAS Consulting, LLC & Co-Founder and Director, Clark County Community Foundation Scholars
- Jessica D. Cunningham, Executive Director - KY STATS
- Madison Gates, Associate Professor - Georgia Regents University
- Richard Matika, Professor of Mathematics – KCTCS, Somerset Community College
- Justin Nichols, Assistant Professor, UK Kinesiology & Health Promotion
- Sandra Moore, Associate Provost for Diversity Planning at Eastern Kentucky University
- Michael Peabody, Lead Psychometrician; IXL Learning
- Mikaela Raddatz, Psychometrician; American Board of Physical Medicine and Rehabilitation
- Kenneth D. Royal, Associate Professor, North Carolina State University
- Curtis Sandberg, Vice President for Student Life/Dean of Students at Georgetown College