

**Kelly D. Bradley, Ph.D.**  
**Professor; Department of Educational Policy Studies & Evaluation**

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**Education**

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

**Certifications/Licensures**

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

**Professional Experience**

- 2018 – Department Chair, Educational Policy Studies and Evaluation  
2016 – Program Chair, Research Methods in Education  
2015 – 2016 Interim Director of Graduate Studies  
*Department of Educational Policy Studies and Evaluation, University of Kentucky, Lexington, KY*  
2015 – Professor (appointment July 1, 2015)  
2008 – 2015 Associate Professor (appointment July 1, 2008)  
2002 – 2008 Assistant Professor  
1999 – 2002 Adjunct Faculty, Department of Mathematics, DeVry University, Columbus, OH  
1999 – 2001 Research Assistant, Educational Research, Evaluation, and Measurement Data  
Analysis and Consultation Service, The Ohio State University Columbus, OH  
1998 – 1999 Adjunct Instructor, Mathematics Department, Midlands Tech College Columbia, SC  
1997 – 1999 Teaching Assistant; Research Assistant; Evening School Instructor  
Department of Statistics, University of South Carolina Columbia, SC  
*Sissonville High School Kanawha County Board of Education, Charleston, West Virginia*  
1997 – 1999 Substitute Teacher, Long-term Science, Physics and Honors Science 9  
1996 – 1997 Assistant Boys' Basketball Coach

**Publications**      [Note: \* denotes graduate student, # denotes past graduate student]

**Selected Articles**

- C. Oldham<sup>#</sup> & **Bradley, K.D.** (accepted with revisions). Exposing the Mythology of Balance: The Visibility of the Fall and Elevation of Resilience in COVID-19. *The Qualitative Report*.
- Robershaw, K.L.<sup>\*</sup>, **Bradley, K.D.**, & Waddington, R.J. (2022). Parents' 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.<sup>\*</sup> & **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 to Address Sexual Assaults. *Journal of Higher Education Management*, 35(24),
- Harrington, M.R.#, Ickes, M., **Bradley, K.D.**, Noland, M. (2020). The Theory of Planned Behavior and the 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 and Thematic Analysis to Evaluate a Minority Male Student Success Initiative to Improve Participants' Campus Experience and 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. Advance online publication. *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.
- 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 the 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.\* and **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' and 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.
- Royal, K.D. \*, **Bradley, K.D.** & Lineberry, G.T. (2005). Evaluating interactive television (ITV) courses: An identification of factors associated with student satisfaction. *The Online Journal of Distance Learning Administration VIII* (II). <http://www.westga.edu/%7Edistance/ojdl/summer82/summer82.htm>

### **Selected Book Chapters**

- 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.
- 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* (pp. Chapter 17). Hershey, PA: 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). Hershey, PA: IGI Global.
- Bradley, K.D.** (2009). Quasiexperimental research. In E. Anderman (Ed.), *Psychology of Classroom Learning: An Encyclopedia*. Detroit: Macmillan Reference USA.
- Ma, X., Ma, L. \*, & **Bradley, K.D.** (2008). Using multilevel modeling to investigate school effects. In A. O'Connell & D. B. McCoach (Eds.), *Multilevel modeling of educational data*. Greenwich, CT: Information Age Publishing.

**\*\* Not Included: Reviews, Published Reports, Published Conference Proceedings, Works in Progress**

**Grants** Funding to Date – Total Awarded = \$2,844,716 (As PI = \$171,861)

***Selected Examples***

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**

Over 75 Peer-Reviewed National Conference Presentations

Over 75 Regional Peer-Reviewed Conference Presentations

Various Professional Development and Training Sessions

Various Invited Presentations

***Recent selections***

**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.

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

**Courses Taught**

***University of Kentucky***

EPE/EDP 557: Educational Statistics; EPE/EDP 558: Educational Statistics II; EPE 619: Survey Research; 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; EPE/EDP 712: Rasch Measurement. As well as - EPE 767, 785, 798.

\*\* Also taught Math and Statistics at DeVry University, University of South Carolina, and Midlands Tech College

**Selected Awards, Recognition, and Service**

\*\* Serve as Reviewer and on Editorial Board of Various Journals \*\*

- 2020 – current Sayre Parent Advisory Council
- 2019 Mid-Western Educational Research Association; Service to Organization Award
- 2021, 2019, 2018 Mid-Western Educational Research Association; Student Mentor Recognition
- 2019 – current Sayre Athletic Boosters Treasurer
- 2017 – current Governor Appointed, School Curriculum, Assessment and Accountability Council
- 2018 – 2020 American Educational Research Association, Educational Statisticians Chair
- 2015 – 2018 University of Kentucky, College of Education, Promotion, Tenure and Reappointment Committee Member and Chair
- 2015 – 2017 Central Kentucky Youth Football Board Member, Secretary
- 2015 – 2016 SCAPA FOAS; co-President
- 2014 – 2018 University of Kentucky, College of Education, Faculty Council.  
Vice-Chair (2014-2015) and Chair (2015-Present)
- 2014 – 2016 Montessori High School, Executive Board
- 2014 – 2015 Lexington Singers; Executive Board
- 2013 – 2015 American Educational Research Association; Program Chair, Rasch SIG
- 2013 – 2015 University of Kentucky, Teacher Course Evaluation Committee
- 2013 – 2015 Quantitative Initiative for Policy and Social Research (QIPSR) Advisory Board
- 2013 – 2014 SCAPA FOAS; President
- 2011 – 2013 SCAPA FOAS; Vice President
- 2011 – 2012 University of Kentucky, College of Education; Kappa Delta Pi, Counselor
- 2010 – 2012 Mid-Western Educational Research Association; Association Council
- 2010 – 2012 American Educational Research Association; Chair; Survey Methods SIG
- 2006 – 2010 American Educational Research Association; Secretary, Survey Methods SIG
- 2006,2011,2013,2017, 2019, 2020 University of Kentucky COE; Teacher Who Made a Difference
- 2007 – 2019 Volunteer basketball coach and official, Upward Basketball, Immanuel Baptist Church
- 2005, 2007 University of Kentucky, Finalist for Provost Teaching Award