

DR. LYNN GANNON PATTERSON

Associate Professor

Department of Early Childhood and Elementary Education, 3215 Alexander Hall,
Murray State University, Murray, KY 42071-3340
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EDUCATION

Ed.D.

Administration and Supervision
Tennessee State University
Nashville, TN
Dissertation: *Patterns in School Reform 1919-1999*
Advisor: Dr. John Bertrand
1999

Ed.S.

Administration and Supervision
Middle Tennessee State University
Murfreesboro, TN
1987

M.Ed.

Special Education
Middle Tennessee State University
Murfreesboro, TN
1977

B.S.

Speech and Hearing
Middle Tennessee State University
Murfreesboro, TN
1974

NATIONAL BOARD CERTIFICATION

Middle Childhood Generalist – 1998
Renewed Certification – 2008

PROFESSIONAL EXPERIENCE

Assistant Professor

Department of Early Childhood and Elementary Education
Murray State University
Murray, Kentucky
August 2008- present

Principal

David Youree Elementary School
Rutherford County Schools
Murfreesboro, TN
July 2005- June 2008

Interim Principal

LaVergne Primary School
Rutherford County Schools
Murfreesboro, Tennessee
March – May 2005

Assistant Principal

Roy Waldron Elementary
Cedar Grove Elementary
Rock Springs Middle School
Rutherford County Schools
Murfreesboro, TN
March 2004 – July 2005

Elementary Classroom Teacher / University Instructor

Homer Pittard Campus School (Laboratory School)
Middle Tennessee State University
Rutherford County Schools
Murfreesboro, TN
1987-March 2004

Elementary Classroom Teacher

Smyrna Primary School
Rutherford County Schools
Murfreesboro, TN
1977-1987

Speech and Hearing Therapist
Cannon County Schools
Woodbury, TN
1974-1977

COURSES TAUGHT

Murray State University

Fall 2008-present

Undergraduate

- Teaching Elementary Mathematics P-5
- Classroom Environment and Student Engagement for Elementary Teachers
- Structure and Foundations of Education
- Psychology of Human Development
- University Coordinator for Student Teachers
- Classroom Environment and Student Engagement for Elementary Teachers

Graduate

- Classroom Management and Student Motivation
- Integrating Elementary Mathematics across the Curriculum
- Curriculum Development
- Curriculum in Elementary School

Middle Tennessee State University

1987-2004

Undergraduate

- Mathematics Methods for Teachers
- Effective Instruction for Teachers of Grades 5-8
- Reading Methods for Teachers
- Educational Psychology
- Literacy I and II for Grades 5-8

Graduate

- Interdisciplinary Studies for Grades 5-8
- Educational Foundations
- Issues in Elementary Mathematics
- National Board Certification Process

PUBLICATIONS

Refereed Publications

Park, M., Dimitrov, D.M., Patterson, L.G., & Park, D. (2016). Early Childhood Teachers' Beliefs about Readiness for Teaching STEM. *Journal of Early Childhood Research*, 1-17. doi: 10.1177/1476718X15614040

Boyce, J., Riley, J., Patterson, L. (May 2015). Adult-child communication: A goldmine of learning experience. *Childhood Education*. 91:3, 169-173, DOI: 10.1080/00094056.2015.1047307. Washington D.C.: Association for Childhood Education International.

Patterson, L., Patterson, K. (March 2014). Problem solve with the presidents. *Mathematics Teaching in the Middle School*. 19 (7), 406-413. Reston, VA: National Council of Teachers of Mathematics.

Musselman, M., Patterson, L. (Fall, 2013). Investigating science at home. *Spectrum: The Journal of the Illinois Science Teachers Association*. 39 (2), 24-29. Sullivan, IL: Illinois Science Teachers Journal.

Patterson, L., Musselman, M., Rowlette, J. (Fall, 2013). Using the depth of knowledge model to create high school mathematics assessments. *Kentucky Journal of Excellence in College Teaching and Learning*. 11, 39-45. Richmond, KY: College of Education, Eastern Kentucky University.

Patterson, L., Young, A. (Summer, 2013). The power of math dictionaries in the classroom, *Southern Regional Association of Teacher Educators Journal*, 22 (2). Clarksville, TN: Southern Regional Association of Teacher Educators.

Jacobs, M., Patterson, L. & Hansen, J. (Spring, 2012). Curriculum studies that foster teacher leadership. *Journal for the Liberal Arts and Sciences*, 16 (2), 5-13. Oakland City, IN: Oakland City University.

Patterson, L. (Fall, 2011). Creating a happy, healthy, and productive classroom. *New Teacher Advocate*, 18 (1), 4-5. Indianapolis, IN: Kappa Delta Pi.

Patterson, L., & Bloomdahl, S., (June, 2011), Engaging immigrant students. *Phi Delta Kappa International "Classroom Tips"*, Bloomington, IN: Phi Delta Kappa International. doi: http://www.pdkmembers.org/members_online/publications/ClassTips/Tips_June11.pdf

Patterson, L. (Fall, 2010). 10 tips to a great start. *New Teacher Advocate*, 19 (1), 9. Indianapolis, IN: Kappa Delta Pi.

Published Book Chapters

Patterson, L., Musselman, M. Response to Interventions in Mathematics Middle and High School. Examining *Response to Intervention (RTI) Models in Secondary Education*. Editor - Pam Epler-Brooks. IGI Global. Hersey, PA. 2015.

Research in Progress

Preservice Teachers' Strategies to Improve their own Social and Emotional Competencies. In collaboration with Dr. Mi-Hwa Park, Dr. Echo Wu, and Dr. Ajay Das. This research in process as we survey pre-service teachers.

Young Children's Early Recognition of Numbers. In this collaboration with Dr. Veena Paliwal we received IRB approval from Murray State University and interviewed around 70 preschoolers on their early number sense abilities. Data are being analyzed at this time.

Current Grants Awarded:

Supporting Strategies for Building Numeracy in Grades K-3. Awarded by the Kentucky Department of Education Mathematics Science Partnership Grant Contract Dates: September 30, 2015 – September 30, 2016
Amount Awarded for year one of the grant: \$191, 712
Amount of Grant pending award for year two: \$102,082
Role: Co Principal Investigator with Dr. Yuejin Xu

Park, M., Patterson, L., Wu, E., Das, A., COE Incentive Grant Award for \$4990 for . *Preservice Teachers' Strategies to Improve Their Own Social and Emotional Competencies*. College of Education and Human Services, Murray State University (2015).

Submitted Book Chapters

Musselman, M., Patterson, L., & Gierhart, G.; Qualities of Effective Teacher Leaders; *Handbook on Classroom Teachers as Associated Teacher Educators*: Commissioned by the Association of Teacher Educators, to be published in 2016.

Previous Research Grants

Patterson, L., Cary, K. Research Scholar Fellowship grant for \$2000 for *Understanding and Opening Communication with Families of “Silent Victims” in the Classroom*. Murray State University (2012).

Park, M., Patterson, L. COE Incentive Grant Award for \$4375 for *Early Childhood Teachers’ Self-Efficacy and Attitude about STEM Education*. College of Education, Murray State University (2013).

PRESENTATIONS

International/National Refereed Presentations

Patterson, L., (2014 April). *Operation scavenger hunt*. National Council of Teachers of Mathematics, National Conference; New Orleans, Louisiana.

Schoff, S., Patterson, L., (2014 April). *What’s so common about the common core?* Presidential Series Presentation. National Council of Teachers of Mathematics, National Conference; New Orleans, Louisiana.

Normington, S., Rising, J., Patterson, L., (2013 April). *Rock with scissors and paper: Spatial reasoning in your hands*. Presidential Series Presentation. National Council of Teachers of Mathematics, National Conference; Denver, Colorado.

Cary, K., Patterson, L., (2012 August). *Understanding and opening communication with families of “silent victims” in the classroom*. Poster Presentation Session. American Psychological Association, Annual Convention; Orlando, Florida.

Normington, S., Rising, J., Patterson, L., (2012 April). *Rock with scissors and paper*. Presidential Series Presentation. National Council of Teachers of Mathematics, National Conference; Philadelphia, Pennsylvania.

Patterson, L, Musselman, M. (2011, April). *Investigation stations*. National Council of Teachers of Mathematics National Conference; Indianapolis, Indiana.

Hansen, J., Patmor, G., Patterson, L., Riley, J., Musselman, M., O'Connor, A., (2010, October). *Star tech the next generation: Collect and reflect via LiveText*. International Society for Exploring Teaching and Learning; Nashville, Tennessee.

Patterson, L., (2010, April). *Making math move and connect through centers*. National Council of Teachers of Mathematics; San Diego, California.

Hansen, J., Shatzer, J., Patterson, L., (2009, October). *Developing desirable dispositions in tomorrow's teachers*. Phi Delta Kappa International Summit on Quality Educator Recruitment and Retention; Indianapolis, Indiana.

Patterson, L., Bergman, L. (2001, May). *Looping in a laboratory school*. National Laboratory Schools National Conference; Orlando, Florida.

Patterson, L. (2000, April). *Your future is blooming with stem and leaf plots*. National Council of Teachers of Mathematics National Conference; Chicago, Illinois.

Patterson, L. (2000, April). *You're never too old or too young for algebraic exploration*. National Board Certified National Conference; Orlando, Florida.

Patterson, L., Lassiter, M. (1996, April). *Driving into the future with factorials*. National Council of Teachers of Mathematics National Conference; San Diego, California.

Regional Refereed Presentations

Park, M., Patterson, L. (2014, November). *Differential effects in self-efficacy of early childhood teachers on teaching STEM produced by the*

presence of latent classes of teachers, Mid-South Educational Research Association; Knoxville, Tennessee.

Patterson, L., Patterson, K. (2013, November). *Problem solving with the Presidents*, National Council of Teachers of Mathematics Regional Conference and Exposition; Louisville, Kentucky.

Patterson, L., (2011, October). *Positive pumpkin power*. National Council of Teachers of Mathematics, Regional Conference; St. Louis, Missouri.

Shatzer, J., Gierhart, G., Patterson, L., (2010, October). *Celebrate math! Using children's literature to make math connections in reading, science, and Social Studies*. National Council of Teachers of Mathematics Regional Conference; New Orleans, Louisiana.

Hansen, J., Shatzer, J., Patterson, L., (2009, November). *Enhancing Educational efficacy: dispositions by design*. Southeastern Regional Association of Teacher Educators; Louisville, Kentucky.

Hansen, J., Jacobs, M., Patterson, L., (2009, November) *Curriculum studies that foster teacher leadership*. Southeastern Regional Association of Teacher Educators; Louisville, Kentucky.

Patterson, L. (1999, November). *Hey! I think my backpack would weigh less on the moon*. National Council of Teachers of Mathematics Regional Conference; Topeka, Kansas.

State Refereed Presentations

Patterson, L., Coomer, A., Fowler, O., Perfetti, K. (2016, March), *Building numeracy through games*. Kentucky Center for Mathematics Conference, Lexington, KY.

Patterson, L, Bruns, E., Janeaux, L., Newton, B. (2015, October). *Dice, decks, and dominoes*. Kentucky Council of Teachers of Mathematics; Shelbyville, KY.

Patterson, L, Bruns, E., Burnett, T., Dotson, C., Hewlett, J., Janeaux, L. (2015, March). *Engaging students in addition and subtraction*. Kentucky Center for Mathematics Conference; Lexington, KY.

Patterson, L., Reed, D. (2014, October). *Blending common core with technology*, Kentucky Council of Teachers of Mathematics; Winchester, Kentucky.

Riley, N., Patterson, L. (September, 2013). *Debunking the moon myth*, Kentucky Association of Teacher Educators, Erlanger, KY.

Riley, N., Patterson, L. (February 2013). *Environmental influences on children's school behavior*, Posters at the Capitol; Frankfort, KY.

Cary, K., Patterson, L. (January, 2012). *Opening communication between parents of silent victims and educators*, Posters at the Capitol; Frankfort, KY.

Patterson, L., Patterson, K. (2011, October). *Making math relevant through social studies*, Kentucky Council of Teachers of Mathematics; Bowling Green, Kentucky.

Cary, K., Patterson, L. (2011, October). *Opening communication between parents of silent victims and educators*, Kentucky Counselors Association Conference; Louisville, Kentucky.

Musselman, M., Patterson, L. (2011, January). *Using hands-on science activities to teach geometry concepts*, Science in the South Conference; Carbondale, Illinois.

Musselman, M., Patterson, L. (2010, November). *Integrating geometry with hands-on science activities*, Kentucky Science Teachers' Association Lexington, Kentucky.

Patterson, L., Musselman, M. (2010, October). *Connecting whole class investigations to centers*, Kentucky Council of Teachers of Mathematics; Somerset, Kentucky.

Patterson, L. (2010, February). *Possibilities with probability*, Kentucky Center for Mathematics Conference; Frankfort, Kentucky.

Patterson, L., (2009, October). *Engaging students in problem solving*, Kentucky Council of Teachers of Mathematics Annual Conference; Paris, Kentucky.

Patterson, L., (2009, October). *A taste of Australian mathematics*, Illinois Council of Teachers of Mathematics Annual Conference; Peoria, Illinois.

Shatzer, J. , Patterson, L., (2008, October). *Making connections in math and children's literature*. Kentucky Council of Teachers of Mathematics Annual Conference; Louisville, Kentucky.

University Presentations

Patterson, L. (June, 2014). *Part I: Common core mathematics in the elementary classroom*. College and Career Readiness Summit. College of Education: Murray State University: Murray, Kentucky.

Patterson, L. (June, 2014). *Part II: Common core mathematics in the elementary classroom*. College and Career Readiness Summit. College of Education: Murray State University: Murray, Kentucky.

Musselman, M., Patterson, L. (November, 2013). *Supporting diverse learners: Differentiated instruction*. CTLT's 16th Forum: Murray State University: Murray, Kentucky.

Patterson, L., Austin, C. (June, 2013). *Practicing the standards for mathematical practice*. College and Career Readiness Summit; College of Education: Murray State University: Murray, Kentucky.

King, B., Patterson, L. (June, 2013). *Understanding the next generation science standards*. College and Career Readiness Summit. College of Education: Murray State University: Murray, Kentucky.

Eaton, D., Homsey, L., Naber, J., Patterson, L., Pizzo, D. (April, 2013). *Discussion of the undergraduate research program at Murray State University*. Brown Bag Panel at Murray State University: Murray, Kentucky.

Patterson, L. (June, 2012). *From professional learning communities to response to intervention*. College and Career Readiness Summit: Innovations to Success. College of Education: Murray State University: Murray, Kentucky.

Patterson, L. (June, 2011) *Fun with math in the classroom*. Future Educators Camp Presentation. College of Education: Murray State University: Murray, Kentucky.

Patterson, L. (February, 2011) *Study strategies and strengths* presented to White College students at Murray State University: Murray, Kentucky.

Patterson, L. (October, 2010) *Journaling across the curriculum* presented to the College of Education Faculty at “Writing Brown Bag Lunch”: Murray, Kentucky.

Patterson, L., Clemson C., Anderson, V., (2009, November) *We Discovered Korea*, International Education Week Murray State University: Murray, Kentucky.

Patterson, L. (Fall 2008) *How to study* presented to White College students at Murray State University: Murray, Kentucky.

Patterson, L. (2008, November) *A taste of Australian mathematics*. International Education: A Bridge to Everywhere for International Education Week at Murray State University: Murray, Kentucky.

Invited Presentations

Patterson, L. (2005, July). Mathematics Workshop for teachers at Brown Elementary School in Columbia, Tennessee

Patterson, L. (2002-2004). Summer Mathematics Workshops for teachers in response to No Child Left Behind requirements in Columbia, Tennessee

Patterson, L. (2002, October). Tennessee LEAD Conference in Nashville, Tennessee

Patterson, L. (2002, March) Tennessee Education Association Minority Affairs presentation on the National Board Certification Process in Nashville, Tennessee

Patterson, L. (2001, February). Algebra Workshop for High School Algebra Teachers of Native Americans at the University of Wisconsin

Patterson, L. (2001, August). Algebra presentation to high school mathematics teachers in Memphis, Tennessee

Patterson, L. (2001, November). Tennessee Education Association presentation of National Board Certification Process in Nashville, Tennessee

PROFESSIONAL SERVICE

Service to the Department of Early Childhood and Elementary Education

- Tenure Committee (2014-present)
- IAF Committee (2016-present)
- Elementary Program Coordinator (2013- 2015)
- Elementary Program Co-coordinator (2015-present)
- Faculty Senator for Department of Early Childhood and Elementary Education (2010-2014)
- Member of Faculty Senate Rules and Bylaws Committee (2011-2014)
- Search Committee Chair for Educational Technology Position (Spring 2014)
- URSA Mentor for Lindy Hill (2012-2015)
- URSA Mentor for Ashlee Futrell Young (2010-2013)
- URSA Mentor for Riley Nance (2011-2013)
- URSA Mentor for Kaitlyn Cary (2009-2012)
- Search Committee for Assistant Professor in Educational Foundations (2013)
- Lead Teacher for ELE 304 (2010-present)
- Lead Teacher for EDU 631 (2011-present)
- Lead Teacher for ELE 603 (2009-present)
- Lead Teacher for ELE 310 (2014-present)
- Search Committee for Gifted and Talented Faculty Position (2012)
- Senate Bill One Graduate Professional Learning Community Committee Chair for Elementary Education (2011-2012)
- Response to Intervention Conference Planning Team (2011)
- Chinese observer in EDU 403 class (2012)
- Host to People's Education Press (PEP) scholar from China (Spring 2010)
- Elementary Instructional Technology Specialist Search Committee (2014)
- Elementary Science Search Committee (2010-2011)

- iPad Training for Early Childhood and Elementary Education Faculty (2011)
- ELE 304 Adjunct Training Coordinator (2010-present)
- KOYTE Testing Coordinator (2010)
- Grievance Committee for the College of Education (2010-present)

Service to the College of Education and Human Services

- COEHS Science Network Representative and Consultant (2015- 2016)
- COEHS Policy and Review Committee (2014-present)
- COEHS Transitions Committee (2014-present)
- URSA Mentor (2009-present)
- Kentucky Road to Success for Algebra 1 Committee (2014-present)
- Kentucky Mathematics Educator Development Founding Member (2014-present)
- Search Committee Member for Special Education Position (2014)
- Search Committee Member for Reading Specialist Position (2014)
- COEHS Collegiate Strategic Planning Committee (2014-present)
- Diversity Committee (2014-2013)
- Chinese observer in EDU 403 class (2012)
- Host to People's Education Press (PEP) scholar from China (Spring 2010)
- Member of Sparks Lecture Committee (2012)
- Sparks Lecture Committee (2011)
- EDU 633 *Curriculum Development* Ad Hoc Committee (2009-2013)
- Honors Day Committee to Select Outstanding Senior in Elementary Education (2009)
- Region I STLP Showcase Faculty Assistance (2009)
- NCATE – Collaborated with Joyce Shatzer to create Photo Story for Elementary Education (2008)
- Co-coordinated NCATE celebration Through PDK (2008)

Service to the Murray State University

- Spin Instructor at Wellness Center for Students and Staff (2010-present)

- Yoga Instructor for Faculty and Staff (2015-present)
- Faculty Development Council (2013-2015)
- Service Learning Advisory Committee (2012-2015)
- Thesis Committee for Master's Candidate in the Murray State Mathematics Department (2013)
- Academic Council – Faculty Senate Representative Support (2013-2014)
- Academic Council – Faculty Senate Representative Undergraduate (2013-2014)
- Academic Council – Faculty Senate Representative Library (2012-2013)
- Committee for Exploring Non-Governmental Foundation and Philanthropic Funding (2010-2012)
- Graduate KY Dropout Prevention Summit Committee (2010)
- White Residential College Faculty member and contributor (2008-present)
- Scholarship Committee – White Residential College (2008)
- Discover Korea Section Committee (2009-present)
- National Science Teachers Association - Faculty Support for Student Organization at MSU (2009-2010)

Service to the Profession

- Science Network Team Member: Providing professional development with the Kentucky Department of Education to Western Kentucky Region Teachers (August 2015-March 2016)
- Childhood Education Article Reviewer (2013-present)
- National Council of Teachers of Mathematics Journal Article Reviewer (2012-present)
- Secretary for the Council of Presidential Awardees in Mathematics (CPAM): National Affiliate of the National Council of Teachers of Mathematics (2013-2015)
- National Science Foundation Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST) Panel Reviewer for Elementary Mathematics Presidential Awards (2004, 2006, 2012, and 2014)
- Educational Professional Standards Board Examiner
EPSB/NCATE Joint Accreditation Visit to a Kentucky College of Education Team Member – Brescia University (2014)

- Working Committee Member Kentucky State Science Content Standards (2010-2014)
- Educational Professional Standards Board Examiner EPSB/NCATE Joint Accreditation Visit to a Kentucky College of Education Team Member – Kentucky Wesleyan College (2012)
- Business Education Teacher Journal Article Reviewer (2011-2012)
- Murray State University Chapter Phi Delta Kappa Chapter President (2009-2012) Past President (2012-2013)
- Murray State University Chapter Phi Delta Kappa Scholarship Selection Committee (2009-2013)
- KTIP Teacher Educator (2010-2011 and 2014-2015)
- Book Endorsement for *The Will to Lead, The Skill to Teach* by Anthony Muhammad. October, 2011.
- Education Representative on the Kentucky Department of Education State Science Standards Committee (2010-2015)
- Review Book Committee for McGraw Hill (2009)

SPECIAL TRAINING - PROFESSIONAL DEVELOPMENT

- Kentucky Center for Mathematic's MaRTI Middle School Training in Mathematics Teaching – (2014-2015)
- Yoga Certified Instructor Training 200 hr. + (2014-2015)
- CAEP Conference – April 2014
- Common Core Standards Workshop in Mathematics – Senate Bill I – Murray State University (2013)
- Kagan Cooperative Learning Institute in Orlando, Florida (2013)
- *Canvas* Training (2013)
- Co-Teaching Training (September, 2012)
- American Red Cross Certified Adult CPR/AED (2015)
- Response to Intervention Training in Nashville, Tennessee (2012)
- Trained as an Indoor Cycling Instructor (2010)
- Education Professional Standards Board for Kentucky's Board of Examiners Institutional Trained and Certified (2010)
- Kentucky Senate Bill I Content Standards Training (2010-2013)
- Writing Workshops Brown Bag Lunches (2010-2011)
- Algebra Workshop in Madisonville, Kentucky (2010)
- KTIP Training at Murray State University (2009)
- Service Learning Training at Murray State University (2009)
- Professional Learning Communities Institute in St. Louis, Missouri (2009)
- National Council of Teachers of Mathematics Annual Conference in Washington D.C. (2009)

- *Blackboard* – Workshops and Trainings (2008 - 2012)
- “Big Ideas on Teaching” CTLT’s Annual Teaching and Technology Forum (2008)
- CTLT Luncheon Workshops (2008 - present)
- CTLT’s Annual 12 Gadgets of Christmas (2009)
- West Kentucky Instructional Improvement Cadre – Legal Issues Conference, West Kentucky Educational Cooperative (2008)
- Professional Learning Community Training (2006-2008)

PROFESSIONAL MEMBERSHIPS

- Council of Presidential Awardees in Mathematics (CPAM)
- Society of Elementary Presidential Awardees (SEPA)
- National Council of Teachers of Mathematics (NCTM)
- Kentucky Council of Teachers of Mathematics (KCTM)
- Network Communication Support Motivate: Leadership in Mathematics Education (NCSM)
- Association of Mathematics Teacher Educators (AMTE)

HONORS, AWARDS AND RECOGNITIONS

- Nominated for Dr. Charles and Marlene Johnson Outstanding Education Faculty Award (2015)
- Promotion to Associate Professor (2015)
- Tenure Awarded (2014)
- Board of Regents’ Award for Teaching Excellence (2012)
- Nominated for Board of Regents’ Award for Teaching Excellence (2011)
- Delegate in the Discover Korea Program (2009)
- Phi Kappa Phi Honor Society (2008)
- State Finalist (Top 7) for Tennessee Teacher of the Year 2000 (2001)
- Achieved National Board Certification (1998)
- Achieved renewal of National Board Certification (2008)
- Presidential Award for Excellence in Mathematics and Science Teaching in the area of Mathematics Elementary (2002)