

*Stefanie D. Livers, PhD, NBCT*  
Missouri State University  
Assistant Professor  
Department of Childhood Education & Family Studies  
Springfield, MO

### **Academic Background**

<b>Doctor of Philosophy</b> 2012	<b>UNIVERSITY OF LOUISVILLE</b> , Louisville, KY Curriculum & Instruction: Mathematics Education Advisor: Karen S. Karp Dissertation: Coaching the Coaches: Supporting University Supervisors in the Supervision of Elementary Mathematics Instruction
<b>Masters in Teaching</b> 1997	<b>UNIVERSITY OF LOUISVILLE</b> , Louisville, KY Early Childhood Education K – 5
<b>Bachelor of Arts</b> 1994	<b>UNIVERSITY OF LOUISVILLE</b> , Louisville, KY Major: Psychology Minor: Sociology

### **Professional Experience**

<b>MISSOURI STATE UNIVERSITY</b> , Springfield, MO August 2018 – Current August 2017– Current	Elementary Program Coordinator Assistant Professor Elementary & Mathematics Education
<b>UNIVERSITY OF NOTRE DAME</b> , Notre Dame, IN Summer 2017 Summer 2018	Visiting Assistant Professor Mathematics Education
<b>UNIVERSITY OF ALABAMA</b> , Tuscaloosa, AL August 2012 – August 2017	Assistant Professor Elementary & Mathematics Education
<b>UNIVERSITY OF LOUISVILLE</b> , Louisville, KY August 2009 – July 2012 January 2006 – August 2009	Instructor: Full Time Adjunct Instructor: Part Time

### **Professional Experience in Schools & Districts**

<b>SHELBY COUNTY PUBLIC SCHOOLS</b> , Shelbyville, KY July 2006 – August 2009	Student Achievement Consultant (District Instructional Coach/ Assigned to Wright Elementary)
<b>GOSHEN ELEMENTARY</b> , Prospect, KY June 2001 – July 2006	Elementary School Teacher

**BARDSTOWN ELEMENTARY**, Bardstown, KY

July 1998 – June 2001

Elementary School Teacher

**THE dePAUL SCHOOL**, Louisville, KY

Sept. 1997 – June 1998

Elementary School Teacher  
for students with Dyslexia

## Publications

### Peer Reviewed Journal Articles

Sullivan, P., **Livers, S. D.**, & Evans, W. (2020). Navigating the uncertainty of sharing mathematical authority. *Mathematics Teacher: Learning and Teaching Pre-K-12*, 113(7), 581–589.

**Livers, S. D.**, Zelkowski, J., Harbour, K. E., Gleason, J., & McDaniel, S. (2020). Examining mathematics self-efficacy and practices between general education and special education teachers. *RCML Investigations in Mathematics Learning*, 12(2), 96–109.

Baker, A. M., **Livers, S. D.**, & Steuer, P. H. (2020). Making the case for becoming a teacher: Closing the parity gap in recruitment. *Southeastern Regional Association of Teacher Educators (SRATE)*, 29(1), 1–12.

**Livers, S. D.** (2019). Facilitating teacher learning through leading: An elementary mathematics coach's story. *Tennessee Educational Leadership*, 46(2), 23–32.

Davis, T. R., Bolyard, C. S., Zhang, S., **Livers, S. D.** Syndor, J., & Daley, S. (2019). A multi-institution study of elementary teacher candidates' self-efficacy: Analysis of participant characteristics and implications for teacher educators. *Teacher Educator*, 54(3), 313–330.

**Livers, S. D.**, & Harbour, K. E., & Fowler, L. (2019). The dangers of “animals” in the mathematics classroom. *Teaching Children Mathematics* 25(7), 406–414.

Wiley, C. J., & **Livers, S. D.** (2018). Forging New Terrain in Critical Mathematics Teacher Leadership: The Role of Critical Reflective Practice. *Teaching for Excellence and Equity in Mathematics (TEEM)*, 9(1) 6–16.

**Livers, S. D.**, Paxton, M. O'Grady, N., & Tontillo, M. (2018). Embracing curriculum compacting: Teacher candidates supporting differentiated instruction in elementary mathematics. *School University Partnerships*, 11(1), 19–25.

**Livers, S. D.**, & Elmore, P. (2018). Attending to precision: Vocabulary support in middle school mathematics classrooms. *Reading and Writing Quarterly*, 34(2), 160–173. (Online access 2017).

Gleason, J., **Livers, S. D.**, & Zelkowski, J. (2017). Mathematics classroom observation protocol for practices (*MCOP<sup>2</sup>*): A Validation Study. *RCML Investigations in Mathematics Learning*, 9(3), 111–129.

**Livers, S. D.** (2016). The importance of preparing university supervisors for coaching elementary mathematics. *The Field Experience Journal*, 18(Fall), 20–51.

**Livers, S. D.,** & Bay-Williams, J. (2014). Constructing (not obstructing) meaning. *Mathematics Teaching in the Middle School*, 20(3), 153–159.

Bay-Williams, J., & **Livers, S. D.** (2009). Making decisions about vocabulary support in mathematics teaching. *Teaching Children Mathematics*, 16(4), 238–245.

## Invited Journal Articles

**Livers, S. D.,** Zhang, S., & Wooten, M. (2017). Improving mathematical practices for elementary teachers through long-term professional development. *New England Mathematics Journal*, 1(2), 42–52.

## Peer Reviewed Book Chapter(s)

**Livers, S. D.,** & Piccolo, D. (2020). Using a critical perspective to transition an elementary mathematics methods course to a virtual learning experience. In Ferdig, R.E., Baumgartner, E., Hartshorne, R., Kaplan-Rakowski, R. & Mouza, C. (Eds.). *Teaching, Technology, and Teacher Education During the COVID-19 Pandemic: Stories from the Field* (pp. 393–399). Association for the Advancement of Computing in Education (AACE).

Piccolo, D., Tipton, S., & **Livers, S. D.** (2020). Transitioning to online student teaching. In Ferdig, R.E., Baumgartner, E., Hartshorne, R., Kaplan-Rakowski, R. & Mouza, C. (Eds.). *Teaching, Technology, and Teacher Education During the COVID-19 Pandemic: Stories from the Field* (pp. 297–301). Association for the Advancement of Computing in Education (AACE).

Harbour, K. E., **Livers, S. D.,** & Hjalmarson, M. (2019). Measurement and validity in the context of mathematics coaches and specialists. In J. Bostic, E. Krupa, J. Shih (Eds.) *Assessment in Mathematics Education Contexts: Theoretical Frameworks and New Directions* (pp. 172–195). Routledge.

**Livers, S. D.,** & Karp, K. S. (2018) The power of context: Promoting equity and access in mathematics learning using children's literature. In E.E. Monroe, & T. Young (Eds.) *Deepening Children's Mathematical Understanding with Children's Literature* (pp. 139–166). National Council of Teachers of Mathematics (NCTM).

**Livers, S. D.** (2018). Tools for successful leadership. In J. Hunsicker (Ed.) *Teacher Leadership in Professional Development Schools* (pp. 272–274). Emerald Publishing.

**Livers, S. D.,** & Lin, L. (2017). Elementary teacher candidates' perspectives on the teaching and learning of English learners. *Advocacy in Academia and the Role of Teacher Preparation Programs* (pp. 23–41). IGI Global.

## Peer Reviewed Conference Proceedings

- Hjalmarson, M. A., Saclarides, E. S., Harbour, K. E., **Livers, S. D.**, & Baker, C. K. (accepted). Mathematics specialists and teacher leaders: An ongoing qualitative synthesis. *Proceedings of the 42nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Mazatlán, Sinaloa, Mexico: Department of Mathematics Education of Cinvestav, and the Mexican Association for Research on the Use of Technology in Mathematics Education.
- Saclarides, E. S., Baker, C. K., Mudd, A., **Livers, S. D.**, Harbour, K. E., & Hjalmarson, M. A. (accepted). An exploration of mathematics teacher leaders in PME-NA Proceedings from 1984-2019. *Proceedings of the 42nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Mazatlán, Sinaloa, Mexico: Department of Mathematics Education of Cinvestav, and the Mexican Association for Research on the Use of Technology in Mathematics Education.
- Livers, S. D.**, Harbour, K. E., McDaniel, S. C., Gleason, J., & Nalu, N. (2019). A professional development framework to support inclusive elementary mathematics instruction. In S. Otten, A. G. Candela, Z. de Araujo, C. Haines, & C. Munter (Eds.), *Proceedings of the 41st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 601–602). St Louis, MO: University of Missouri.
- Harbour, K. E., & **Livers, S. D.** (2018). Using coaching cycles to transfer and sustain effective instructional practices. In T. E. Hodges, G. J. Roy, & A. M. Tyminski, (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 374–377). Greenville, SC: University of South Carolina & Clemson University.
- Livers, S. D.**, Harbour, K. E., & McDaniel, S. (2017). Interaction of professional development support on co-teaching high quality mathematics tasks. In E. Galindo & J. Newton, (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 483–486). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
- Zelkowski, J., Gleason, J., & **Livers, S. D.** (2016). Measuring mathematics classroom interactions: An observation protocol reinforcing the development of conceptual understanding. In the *Proceedings of the 13<sup>th</sup> International Congress on Mathematical Education* (pp.1–8). Hamburg, Germany: ICME 13.
- Livers, S. D.** (2013). Coaching the coaches: Supporting university supervisors in the supervision of elementary mathematics instruction. In (Eds.) S. Brown, G. Karakok, K. H. Roh, and M. Oehrtman *Proceedings from SIGMAA on RUME 16th Annual Conference on Research in Undergraduate Mathematics Education* (pp. 705). Denver, CO.

## Editor Reviewed Journal Articles

Livers, S. D. (2017). Let's build roller coasters. *ASCD Express*, 12(21).

Livers, S. D. (2016). Teacher preparation key to Common Core success.  
*www.kappancommoncore.org*

Livers, S. D. (2013). You can't do that with a worksheet. *ASCD Express*, 8(24).

## Instruments and Manuals

### Mathematics Classroom Observation Protocol for Practices (MCOP<sup>2</sup>)

Gleason, J., Livers, S. D., & Zelkowski, J. (2015). Mathematics classroom observation protocol for practices: Descriptors manual. Retrieved from <http://jgleason.people.ua.edu/mcop2.html>

## Curriculum Materials

Thompson, C., Bush, W., Beswick, G., Chady, A., Jewell, L., Livers, S. D., Nussbaum, S. and Scott, O. (2008). *Math Matters* (lessons for tutoring K–3 students in mathematics) Lexington, KY: Partnership for Successful Schools.

## Journal Articles Under Review (Peer Reviewed)

Livers, S. D., & Willey, C. J. Towards a comprehensive and momentous/sustainable preparation of PMTs for equity. Submitted to *Journal of Mathematics Teaching Education*.

Livers, S. D., Davis, T. R., Bolyard, C. S., Zhang, S., Syndor, J., & Daley, S. A longitudinal mixed methods study exploring three midwest teacher preparation programs and their impact on teacher candidates' self-efficacy across multiple semesters. Submitted to *Teacher Education Quarterly*.

Harbour, K. E., Livers, S. D., & Gray, S. Teaching fractions through geometry in early childhood teaching and learning. Submitted to *Mathematics Teacher: Learning and Teaching Pre-K–12*.

Livers, S. D., & Miller-Bennet, V. Planning pitfalls: Lessons for decision making. Submitted to *Mathematics Teacher: Learning and Teaching Pre-K–12*. (Revise and Resubmit: June 2020)

## Journal Articles In Preparation

Harbour, K. E., Livers, S. D., McDaniel, S., Gleason, J., & Barth, J. Professional development to support teacher change: Mathematics collaborations between general education and special education.

Harbour, K. E., Livers, S. D., Hjalmarson, M. A., Saclarides, E. S., & Baker, C. K. Building a culture of meaningful learning through maximizing mathematics coaches' time.

Piccolo, D., **Livers, S. D.**, & Tipton, S. Elementary education yearlong internship and traditional student teaching stories: Impact of COVID-19 teaching and learning experiences.

## Unpublished Manuscript

Bay-Williams, J. M., & **Livers, S. D.** (2011). The importance of elementary teacher candidates demonstrating understanding of rational number concepts and operations [Unpublished manuscript]. Department of Teaching and Learning. University of Louisville.

## Grants

### Funded

*A Multi-Institution Study of Elementary Teacher Candidates' Self-Efficacy*

Source: Ball State Advance Grant

Role: **Co-Principal Investigator**

Funding: **\$14,990.00**

Duration: 2019-2020

Principal Investigator: Dr. Jackie Syndor

*Analyzing Teacher Candidates' Assessments*

Source: Missouri State University

Role: **Principal Investigator**

Funding: \$500

Duration: 2019

*High School to Elementary Teacher Pipeline: A Focus on Recruitment and Retention*

Source: College of Education, Office of the Dean

Role: **Principal Investigator**

Funding: \$2800

Duration: 2019

*3D Printer*

Source: Missouri State University Provost Major Equipment Grant

Role: **Principal Investigator**

Funding: **\$7199**

Awarded: 2017

*Differentiating Mathematics Instruction within Communities of Learners*

Source: Alabama State Department of Education via USDOE Federal MSP Pass-through Funding (Math Science Partnership)

Role: **Co-Principal Investigator**

Funding: **\$1,023,137** → **\$513,029** (ALSDE reduced funds year 3)

Duration: 2015-2018

Principal Investigator: Dr. Jim Gleason

*Discovery Trail: Woodland Forrest Elementary Implementation of a Mathematics Trail*

Source: STEM Seed Grant: Office of Academic Affairs, University of Alabama.

Role: **Principal Investigator**

Funding: **\$5,000**  
Duration: 2014-2015

*Faucett-Vestavia Elementary School: Focus on Math and Science Initiative*

Source: Community Partnership Grant: Office of Community Based Partnerships  
University of Alabama.

Role: **Principal Investigator**

Funding: **\$3,000**  
Duration: 2014-2015

*IMPACT: Improving the Mathematical Practices for Alabama Classroom Teachers, Mathematics Science Partnership*

Source: Alabama State Department of Education via USDOE Federal MSP Pass-through Funding (Math Science Partnership)

Role: **Lead Grant Evaluator**, elementary component

Funding: **\$881,190**  
Duration: 2012-2013

Principal Investigator: Terri Bowman

*Critical Friends: Building a Professional Learning Community*

Source: Ideas to Action (i2a) Sun Grant, University of Louisville

Role: **Principal Investigator**

Funding: **\$2,370.08**  
Duration: 2011-2012

## **Under Review**

*The Interplay of Mathematics Teacher Educators' Practices and Prospective Teachers' Equitable Mathematics Pedagogy*

Source: W.T Grant Foundation

Role: **Co-Principal Investigator**

Funding Requested: \$

Submission date: August 2020

Principal Investigator: Dr. Craig Willey

## **Unfunded**

*A Longitudinal Multi-Institution Mixed-Methods Investigation of Novice Teacher*

*Self-Efficacy: A Closer Examination of Culturally Relevant Competencies and Mathematics Perceptions*

Source: Spencer Foundation

Role: **Co-Principal Investigator**

Funding Requested: **\$ 499,910.83**

Submission date: 2020

Principal Investigator: Dr. Jackie Syndor

*Exploring the University-School Partnership of Laboratory Schools in Missouri*

Source: Missouri State University Faculty Research Grant

Role: **Principal Investigator**

Funding Requested: **\$4,700**

Submission date: 2020

*A Longitudinal Multi-Institution Mixed-Methods Investigation of Novice Teacher Self-Efficacy: A Closer Examination of Culturally Relevant Competencies and Mathematics Perceptions*

Source: Spencer Foundation

Role: **Co-Principal Investigator**

Funding Requested: **\$ 499,910.83**

Submission date: 2019

Principal Investigator: Dr. Jackie Syndor

*Improving the Quality of Reading Instruction for Students Receiving Special Education Services for Emotional Disturbance (ED) Grades 1-5*

Source: SEED Grant Office of Innovation and Improvement: U.S. Department of Education

Role: **Co-Principal Investigator**

Funding Requested: **\$4,282,889.77**

Submission date: 2018

Principal Investigator: Dr. Reesha Adamson

*Improving Evidence-Based Classroom Practices through a Hybrid Professional Development Coaching Framework.*

Source: SEED Grant Office of Innovation and Improvement's Supporting Effective Educator Development: U.S. Department of Education

Role: **Co-Principal Investigator**

Funding Requested: **\$2,151,233**

Submission date: 2018

Principal Investigator: Dr. Sara McDaniel

*Improving Evidence-Based Classroom Practices through a Hybrid Professional Development Coaching Framework*

Source: SEED Grant: Office of Innovation and Improvement's Supporting Effective Educator Development: U.S. Department of Education

Role: **Co-Principal Investigator**

Funding Requested: **\$4,864,460**

Submission date: 2017

Principal Investigator: Dr. Sara McDaniel

*The Role of the Leadership Coach in Learning Transfer and Building Leadership Capacity in Rural Alabama Schools*

Source: Spencer Foundation

Role: **Co-Principal Investigator**

Funding: **\$750,000**

Submission Date: Fall 2016

Principal Investigator: Terri Bowman

*A Mixed-Methods Analysis of the AMSTI Initiative: Highlighting Success within the UA/UWA In-service Region*

Source: Alabama State Department of Education

Role: **Co-Principal Investigator**

Funding: **\$101,956**

Submission Date: 2016

*Extending the "Differentiating Mathematics Instruction within Communities of Learners" Model*

Source: Alabama State Department of Education



Role: **Co-Principal Investigator**

Funding: **\$103,554**

Submission Date: 2016

*Engaged Partners: Children's Hands-On Museum (CHOM) and The University of Alabama Serving Schools with a Focus on Mathematics Teaching and Learning*

Source: Community-Based Partnerships Seed Grant: University of Alabama

Role: **Principal Investigator**

Funding: **\$5,000**

Submission Date: 2015

*By Design: Collaborative Communities and Meaningful Mathematics*

Source: NSF Informal Learning: National Science Foundation.

Role: **Co-Principal Investigator**

Funding: **\$62,357**

Submission Date: 2014

Principal Investigator: Dr. Lynn Hodge

*The Examination of the Mathematical Teaching Practice: A Tool for Instructional Change*

Source: Measure of Effective Teaching (MET) Longitudinal Database (LDB) Grant

Role: **Principal Investigator**

Funding: **\$24,999.85**

Submission Date: 2012

## **Other Grant Roles**

*Collaborative Research: Transforming Undergraduate Mathematics Teacher Preparation using the PrimeD Framework*

Source: National Science Foundation

Role: **Advisory Board**

PI: Dr. Chris Rakes

Dates: 2020-2022

## **Current Projects**

Davis, T. R., Bolyard, C. S., **Livers, S. D.**, Zhang, S., Syndor, J., & Daley, S. A longitudinal mixed methods study exploring three Midwest teacher preparation programs and their impact on teacher candidates' self-efficacy across multiple semesters. IRB approval 2018

Harbour, K. E., Saclarides, E. S., Hjalmanson, M., Baker, C., & **Livers, S. D.** A Systematic literature review of elementary mathematics coaching.

**October 2020 DRK12 grant submission**

**Livers, S. D.**, & Willey, C. J. Teaching elementary mathematics methods with a critical perspective.

Sullivan, P., & **Livers, S. D.** Characterizing the challenges of incorporating equitable teaching practices into a 6th grade mathematics classroom. IRB approval 2019

**Livers, S. D.**, & Baker, A. M. Analysis of University School Partnerships and Lab Schools.

King, E. K., & **Livers, S. D.** Analysis of academic and social emotional language in early childhood mathematics.

Baker, S. J., Baker, A. M., Satterfield, M., & **Livers, S. D.** Early childhood and elementary teacher candidates' perspectives regarding cultural competence. IRB approved 2020

Baker, S. J., Baker, A. M., McCafferty-Wright, J., & **Livers, S. D.** Bridging teacher candidates, school communities, and the world: A vision for teacher preparation and social justice.

## Conference Presentations

### Invited Keynote

**Livers, S. D.** (2016). *Elementary mathematics specialists: Building relationships amidst a high stakes environment*. Keynote presentation at Mathematics Specialist Conference University of Mississippi, University, MS.

### International Conferences (Peer Reviewed)

**Livers, S. D.,** Baker, S. J., Baker, A. M., & McCafferty-Wright, J. (2020). *From a distance: Bridging teacher trainees, school communities, and the world during the COVID-19 pandemic*. 4th International Citizenship Conference, Casablanca, Morocco.

**Livers, S. D.,** Paxton, M., O'Grady, N., & Tontillo, M. (2013). *Celebrating Curriculum Compacting: Teacher Candidates Supporting Differentiated Instruction in Elementary Mathematics*. Presentation at the 20th Biennial World Conference of the World Council for Gifted and Talented Children, Louisville, Kentucky.

### National Conferences (Peer Reviewed)

Harbour, K. E., **Livers, S. D.,** McDaniel, S. C., Gleason, J., Barth, J. (2020). *Collaborations between general and special education: A professional development project for inclusive elementary mathematics classrooms*. Paper presentation to be given at the 2020 Annual Meeting of the American Educational Research Association. San Francisco, CA  
<http://tinyurl.com/v9fcode> (Conference canceled).

**Livers, S.D.,** Davis, T. R., Zhang, S., Sydnor, J., Daley, S. & Bolyard, C. (2020) *A Yearlong Examination of Teacher Candidate Self-Efficacy Across Semesters and Institutions*  
[Roundtable Session]. Presentation to be given at the 2020 Annual Meeting of the American Educational Research Association. San Francisco, CA. <http://tinyurl.com/sb5qxp> (Conference Canceled)

Harbour, K. E., & **Livers, S. D.** (2020). *Creating change through co-teaching: Moving forward with inclusive mathematics*. Presentation to be given at the Annual Meeting of the National Council of Teachers of Mathematics. Chicago, IL. (Conference canceled).

- Livers, S. D., & Harbour, K. E.** (2020). *Danger! Animals in the mathematics classroom*. Presentation to be given at the Annual Meeting of the National Council of Teachers of Mathematics. Chicago, IL. (Conference canceled).
- Harbour, K. E., & **Livers, S. D.** (2020). *Collaborating for change: A longitudinal professional development project for inclusive elementary classrooms*. Presentation at the Association of Mathematics Teacher Educators (AMTE) Conference, Phoenix, AZ.
- Livers, S. D.** (2019). *A professional development framework to support inclusive elementary mathematics instruction*. Poster presentation at the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. St Louis, MO.
- Livers, S. D.** (2019). *Losing the alligators and focusing on inequality*. Presentation at the National Council of Teachers of Mathematics Conference, Salt Lake City, UT.
- Livers, S. D., & Karp, K. S.** (2019). *Promoting Equity and Access: Using Children's Literature to Provide Meaningful Contexts*. Presentation at the National Council of Teachers of Mathematics Conference, San Diego, CA.
- Harbour, K. E. & **Livers, S. D.** (2019). *Building Dynamic Co-Teaching Partnerships in Inclusive Elementary Mathematics Classrooms*. Presentation at the National Council of Teachers of Mathematics Conference, San Diego, CA.
- Livers, S. D., & Willey, C.** (2019). *Scrutinizing the preparation of mathematics teachers for social and racial justice: A collaborative self-study*. Presentation at the Association of Mathematics Teacher Educators (AMTE) Conference, Orlando, FL.
- Livers, S. D.** (2018). *Intentional use of children's literature to promote equity and access*. Presentation at the National Council of Teachers of Mathematics Regional Conference, Kansas City, MO.
- Papaleo, A., & **Livers, S. D.** (2018). *Removing gatekeeping practices to advocate for equitable mathematics: Transitioning from dehumanizing practices to rehumanizing practices*. Presentation at TODOS: Mathematics for All Conference, Scottsdale, AZ.
- Manley, K. J., & **Livers, S. D.** (2018). *Language, literacy, and culture: Keys to equitable instruction*. Presentation at TODOS: Mathematics for All Conference, Scottsdale, AZ.
- Livers, S. D., Willey, C., & Pinheiro, W.** (2018). *What more can I do?: Looking inward as a means to support teachers to disrupt inequitable mathematics teaching*. Presentation at TODOS: Mathematics for All Conference, Scottsdale, AZ.
- Willey, C., & **Livers, S. D.** (2018). *Towards equity: Examining math educators' histories, values, and priorities*. Presentation at National Council of Teachers of Mathematics Research Conference, Washington, DC.
- Harbour, K. E., & **Livers, S. D.** (2018). *Enhancing instruction in co-taught classrooms through coaching cycles*. Presentation at National Council of Teachers of Mathematics Research Conference, Washington, DC.
- Harbour, K. E., & **Livers, S. D.** (2018). *"Alligators, bunnies, and turtles, OH MY! How did*

- Animals creep into my mathematics instruction?"* Presentation at the National Council of Teachers of Mathematics Conference, Washington, DC.
- Harbour, K. E., & **Livers, S.D.** (2018). *Supporting Teams of General and Special Education Teachers Through Coaching Cycles*. Presentation at the Association of Mathematics Teacher Educators (AMTE) Conference, Houston, TX.
- Livers, S. D.**, Harbour, K. E., & Hjalmanson, M. (2018). *Addressing the need for measurement and validity in elementary mathematics coaches/ specialist research*. Presentation at the Association of Mathematics Teacher Educators (AMTE) Conference, Houston, TX.
- Livers, S. D.**, Harbour, K. E., & McDaniel, S. (2017). *Interaction of professional development support on co-teaching high quality mathematics tasks*. North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA). Indianapolis, Indiana.
- McDaniel, S., Harbour, K. E., & **Livers, S. D.** (2017). *Professional development model addressing differentiating mathematics instruction in inclusive elementary classrooms*. Presentation at the Council of Exceptional Children, Boston, Massachusetts.
- Livers, S. D.**, & Harbour, K. E. (2017). *Designing a unique professional development model to support co-teaching*. Presentation at the Research Conference of National Council of Teachers of Mathematics Conference, San Antonio, Texas.
- Livers, S. D.**, & Karp, K. S. (2017). *Promoting equity and access: Using children's literature to provide a powerful context for learning*. Presentation at the National Council of Teachers of Mathematics Conference, San Antonio, Texas.
- Miller-Bennett, V., & **Livers, S. D.** (2017). *Pinterest pitfalls with pre-service teachers*. Presentation at the National Council of Teachers of Mathematics Conference, San Antonio, Texas.
- Harbour, Kristin, **Livers, S. D.**, & Nalu, N. (2017). *Co-Teaching: Considerations and practices to ensure success for all*. Presentation at the National Council of Teachers of Mathematics Conference, San Antonio, Texas.
- Livers, S. D.**, & Wiley, C. (2017). *Taking power seriously: The process of continual improvement among mathematics teacher educators*. Presentation at the Association of Mathematics Teacher Educators (AMTE) Conference, Orlando, Florida.
- Harbour, K. E., **Livers, S. D.**, & Nalu, N. (2017). *Infusing co-teaching, differentiation, and high-quality mathematics tasks: creating a unique professional development model*. Presentation at the Association of Mathematics Teacher Educators (AMTE) Conference, Orlando, Florida.
- Livers, S. D.**, & Wiley, C. (2016). *Equity for real: Confronting mathematics educators' critical knowledge, dispositions, and practices*. Presentation at TODOS: Mathematics for All, Scottsdale, Arizona.
- Livers, S. D.**, & Wiley, C. (2016). *What's in your methods class? Towards a framework for examining mathematics teacher educators' priorities*. Presentation at the Association of

- Mathematics Teacher Educators (AMTE) Conference, Irvine, California (50% acceptance rate).
- Livers, S. D.,** Marchant, D., & Langdon, S. (2016). *Beyond classroom walks: "Doing mathematics" on a nature trail.* Presentation at the National Council of Teachers of Mathematics Conference, San Francisco, California
- Livers, S. D.,** & Nalu, N. (2015). *Without the algorithms: Solving fraction problems conceptually.* Presentation at The National Council of Teachers of Mathematics Conference, Boston, Massachusetts.
- Livers, S. D.** (2014). *Differentiation: Effective strategies for meeting the expectations of CCSSM and the needs of ALL.* Presentation at TODOS: Mathematics for All, Chandler, Arizona.
- Gleason, J., Weston, T., **Livers, S. D.,** & Zelkowski, J. (2014). *A new classroom observation instrument for assessing K-16 mathematics classrooms.* Presentation at The National Council of Teachers of Mathematics Conference, New Orleans, Louisiana.
- Livers, S. D.** (2014). *Integrating vocabulary with content support.* Presentation at The National Council of Teachers of Mathematics Conference, New Orleans, Louisiana.
- Livers, S. D.** (2014). *Coaching elementary university supervisors to provide mathematics support.* Presentation at The Annual AMTE Conference, February 2014.
- Livers, S. D.** (2013). *Coaching the coaches: Supporting university supervisors in the supervision of elementary mathematics.* Presentation at The Professional Development School Conference, New Orleans, Louisiana.
- Livers, S. D.** (2013). *Coaching the coaches: Supporting university supervisors in the supervision of elementary mathematics instruction.* Presentation at The Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education, Denver, Colorado.
- Bay-Williams, J., & **Livers, S. D.** (2011). *Culture, language and teaching: Three dimensions to supporting ELLs.* Presentation at The National Council of Teachers of Mathematics Annual Conference, Indianapolis, Indiana.
- Thompson, C. S., **Livers, S. D.,** & fellow MAT students. (1997). *Effective communication among PDS participants.* Presentation at The Professional Development School Conference, Louisville, Kentucky.

### **State and Regional Conferences (Peer Reviewed)**

- Livers, S. D.** (2019). *Warning! Animals wreck your instruction.* Presentation at the annual Missouri Council of Teachers of Mathematics, December 2019, Columbia, Missouri.
- Livers, S. D.** (2019). *Diverse children's literature used in mathematics teaching.* Roundtable Presentation at the annual Missouri Council of Teachers of Mathematics, December 2019, Columbia, Missouri.
- Livers, S. D.** (2018). *Children's literature provides meaningful contexts to promote access*

- and equity*. Presentation at the annual Missouri Council of Teachers of Mathematics, November 2018, Columbia, Missouri.
- Nalu, N., **Livers, S. D.**, & Harbour, K. (2016). *Improving mathematics for all students through co-teaching collaborations*. Presentation at the annual Alabama Council of Teachers of Mathematics, October 2015, Birmingham, Alabama
- Livers, S. D.**, North-Byrsts, T., Marchant, D., & Langdon, S. (2015). *Beyond classroom walls: "Doing mathematics" on a nature trail*. Presentation at the annual Alabama Council of Teachers of Mathematics, October 2015, Birmingham, Alabama.
- Livers, S. D.**, & Nalu, N. (2014). *Without the algorithms: Solving fraction problems conceptually*. Presentation at Alabama Council of Teachers of Mathematics Conference, Birmingham, Alabama.
- Livers, S. D.** (2013). *Deciphering the complexity of differentiating for English Language Learners*. Presentation at The Alabama Council of Teachers of Mathematics Conference, Montgomery, Alabama.
- Livers, S. D.** (2013). *Perfecting the teaching of fractions 2.0*. Presentation given at Alabama Council of Teachers of Mathematics Conference, Montgomery, Alabama.
- Livers, S. D.** (2012). *Perfecting the teaching of fractions*. Presentation to be given at Alabama Council of Teachers of Mathematics Conference, Montgomery, Alabama.
- Livers, S. D.** (2011). *Critical friends: Building a professional learning community*. Poster session at Ideas to Action (i2a) Institute: Developing Critical Thinkers, University of Louisville, Louisville, Kentucky.
- Livers, S. D.** (2009). *Diagnostic Interviews*. Roundtable speaker at the STEM Commonwealth Institute for Parent Leadership supported by Prichard Committee on Academic Excellence, Louisville, Kentucky.
- Livers, S. D.**, & Metzger, R. (2008). *High quality mathematics instruction: Reaching every child, every day*. Presentation at Kentucky Teaching and Learning Conference, Louisville, Kentucky.
- Livers, S. D.**, Whitt, S., R. Dow., & Young, M. (2008). *A journey to proficiency—The 21<sup>st</sup> century skills*. Presentation at Kentucky Teaching and Learning Conference, Louisville, Kentucky.
- Livers, S. D.**, Whitt, S., & Penix, J. (2008). *Road to reflection: Looking back through the lens of literacy*. Presentation at Kentucky Teaching and Learning Conference, Louisville, Kentucky.
- Livers, S. D.** (2004). *Stimulating neural pathways*. Presentation at Louisville Writing Project Mini-Conference, Louisville, Kentucky.
- Livers, S. D.**, & Whitt, S. (2004). *Journey to reading proficiency strategies to boost your reading workshop*. Presentation at Kentucky Teaching and Learning Conference, Louisville, Kentucky.

**Livers, S. D., & Miller-Bennett, V. (2004).** *Communication with families*. Presentation at Kentucky Association for National Board Certified Teachers Conference, Bowling Green.

**Livers, S. D. (2003).** *Stimulating neural pathways*. Presentation at Kentucky Teaching and Learning Conference, Louisville, Kentucky.

**Livers, S. D., & Whitt, S. (2003).** *Journey to reading proficiency strategies to boost your reading workshop*. Presentation at Kentucky Teaching and Learning Conference, Louisville, Kentucky.

**Livers, S. D. (2002).** *The road less traveled*. Presentation at Kentucky Teaching and Learning Conference, Louisville, Kentucky

**Livers, S. D. (2001).** *I'm in charge of celebrations*. Presentation at Kentucky Reading Association Conference, Louisville, Kentucky.

### **Invited National and State Conferences**

**Livers, S. D. (2017).** *Teaching Mathematics Through Problem Solving*. SECME Diversity in STEM Education Conference, Tuscaloosa, Alabama.

**Livers, S. D. (2015).** *Association of Mathematics Teacher Educators of Alabama*. Pre-session at Alabama Council of Teachers of Mathematics, Birmingham, Alabama.

**Livers, S. D. (2013).** *Deciphering the Complexity of Differentiating for English Language Learners*. Presentation at The National Council of Teachers of Mathematics Regional Conference, Louisville, Kentucky.

### **Invited Local Presentations and Workshops**

Sullivan, P., & **Livers, S. D. (2019; May & September).** Performing a curriculumectomy. Presentation for Southwest Center for Educational Excellence, Webb City, MO.

**Livers, S. D. (2015).** *High-quality tasks and DOK*. Presentation for Faucett-Vestavia Elementary, Tuscaloosa, AL

**Livers, S. D., Blakely, M., & Rumbaugh, T. (2011).** *Writing to learn mathematics*. Presentation for Kenwood Elementary, Louisville, KY.

**Livers, S. D., & Metzger, R. (2008).** *High-quality mathematics instruction*. Presentation for Straub Elementary, Maysville, KY.

**Livers, S. D. (2008).** *Cognitive coaching*. Presentation for Jefferson County Public School ELL Teacher Mentors in collaboration with the University of Louisville, Louisville, Kentucky.

**Livers, S. D. (2008).** *Geometry*. Presentation for Shelby County Public Schools, Shelbyville, Kentucky.

**Livers, S. D. (2008).** *Data analysis & probability*. Presentation for Shelby County Public

- Schools, Shelbyville, Kentucky.
- Livers, S. D.** (2008). *Numbers & computation*. Presentation given for Shelby County Public Schools, Shelbyville, Kentucky.
- Livers, S. D., Metzger, R., & Hauber, K.** (2008). *High-quality mathematics instruction: Understanding your mathematics program*. Presentation for Shelby County Public Schools, Shelbyville, Kentucky.
- Livers, S. D.** (2007-2008). *Conscious discipline*. Presentation for Wright Elementary, Shelbyville, Kentucky.
- Livers, S. D.** (2007). *Differentiation*. Presentation for Wright Elementary, Shelbyville, Kentucky.
- Livers, S. D., Metzger, R. & Hauber, K.** (2007). *High quality math instruction: Understanding your math program*. Presentation for Shelby County Public Schools, Shelbyville, Kentucky.
- Livers, S. D., & Nicholson, M.** (2007). *High quality mathematics instruction for principals*. Presentation for Shelby County Public Schools, Shelbyville, Kentucky.
- Livers, S. D.** (2006-2007). *Cognitive coaching*. Presentation for Shelby County Public Schools, Shelbyville, Kentucky.
- Livers, S. D., & Miller-Bennett, V.** (2004). *Math the Goshen way*. Presentation for parents at Goshen Elementary, Prospect, Kentucky.
- Livers, S. D.** (2004). *Reading and writing with brain research*. Presentation for Longest Elementary, Greenville, Kentucky.
- Livers, S. D.** (2003). *Reading and writing with the brain in mind*. Presentation for Goshen Elementary, Prospect, Kentucky.
- Livers, S. D., & Miller-Bennett, V.** (2004). *Reading and writing*. Presentation for New Castle Elementary, New Castle, Kentucky.

## Service

### National Service

#### Association of Mathematics Teacher Educators

- 2020 Manuscript Mentor for Manuscript Review Groups
- Nominee for Board Member At-Large (October 2019)
- 2019 AMTE Conference Ambassador
- Awards Committee (2014-2017)
- 2016 Conference Program Proposal Review
- Membership Representative at NCTM, Denver, CO 2013

#### National Council of Teachers of Mathematics

- Program Committee Member (2018-2019): Salt Lake City, Utah
- Regional Conference (Conference Proposal Review and Organization)
- 2018 Day at the Hill Participant



Advisory Group for Educational Materials Committee (2013–2016)  
NCTM Research Conference Proposal Reviewer (2016, 2017)  
2018 Kansas City Regional Conference Volunteer  
2017 Annual Conference Volunteer  
Manuscript Reviewer: *Mathematics Teacher: Learning and Teaching Pre-K-12* (2019–present)  
Manuscript Reviewer: *Teaching Children Mathematics* (2010–2019)

#### TODOS: Mathematics for All

Candidate for Board of Directors (February 2020)  
Recruitment Volunteer at NCTM Regional in Kansas City, MO 2018  
Manuscript Reviewer: *Teaching for Excellence and Equity in Mathematics (TEEM)*; 2016–present)

#### North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)

Strand leader for 2020 PME-NA 42 Conference in Mazatlán, Sinaloa, Mexico  
Strand leader for 2019 PME-NA 41 Conference in St. Louis, MO  
Site Volunteer for 2019 PME-NA 41 Conference in St. Louis, MO  
Proposal Reviewer for 2017 PME-NA 39 Indianapolis, IN

#### Research Council for Mathematics Learning

Manuscript Reviewer for *RCML Investigations in Mathematics Learning* (2017–present)

#### National Board for Professional Teaching Standards

2002 Teaching America About Accomplished Teaching Workshop

#### Reviewer for Additional Journals and Conferences

*Alabama Journal of Mathematics*  
*Journal of Research in STEM Education*  
*Mathematics Teacher Educator*  
*Teacher Educator*  
*NCSM Journal of Mathematics Education Leadership*  
*AERA Castle Conference (2017)*

### State Service

#### Missouri Council of Teachers of Mathematics (MCTM)

Member 2017 – current  
Teacher Grant Award Reviewer 2018

#### Missouri Mathematics Teacher Educators

Member 2017 – current

#### University of Missouri

Grant Reviewer 2020

#### Alabama Mathematics Teacher Educators Association (AMTEA)

**President** (2014 – 2016)  
**President Elect** (2013 – 2014)

West Alabama Council of Teachers of Mathematics (WACTM)

**President** (2014 – 2017)

**President Elect** (2013 – 2014)

Delegate Assembly at NCTM 2014, 2015, 2016

Alabama Council of Teachers of Mathematics (ACTM)

District 3 Representative

Co-wrote (w/ M. Burton) Elementary Scholarship 2015

State professional development sessions at annual conference 2012, 2013, 2014, 2015, 2016

State of Alabama Elementary Mathematics Specialist Planning Committee (2012 – 2014)

Greater Louisville Council of Teachers of Mathematics (2007 – 2012)

Kentucky Association of National Board Certified Teachers (regional rep 2002 – 2008)

Regional Representative 2002 – 2008

Conference organizer and presenter 2004

Kentucky Council of Teachers of Mathematics (2006 – 2012)

## **Institution Service**

**MISSOURI STATE UNIVERSITY**, Springfield, MO

Elementary Program Coordinator 2018 – current

University Committees:

Educator Preparation Provider (EPPC) 2018-2020

**Chair Elect** 2020 – 2021

**Chair** 2021 – 2022

Graduate Council Grievance Committee 2019 – current

Elementary Faculty Representative Bear Mentor Program 2019 – current

**UNIVERSITY OF ALABAMA**, Tuscaloosa, AL

Department and College Committees:

Graduate Recruitment 2012 – 2013

Conceptual Framework **Co-Chair** 2013 – 2016

Academic Issues – alternate 2014 – 2016

**UNIVERSITY OF LOUISVILLE**, Louisville, KY

Department and College Committees:

Masters Redesign (2009 – 2010)

Honors and Awards (2010 – 2011)

Honors and Scholarship (2011 – 2010)

Department Projects:

Co-Author, Gifted and Talented Program Review Document (w/G. Shack & N. Beck; 2010)

Author, Elementary Mathematics Specialist Program Review Document (2011-2012)

## Teaching

### **MISSOURI STATE UNIVERSITY**, Springfield, MO

#### Courses:

Methods in Teaching Mathematics in Elementary Schools  
Advanced Theory and Practice in Elementary Mathematics  
Proposal Development  
Seminar in Education

#### Student Supervision

University Student Teaching Supervisor: Spring 2019

### **UNIVERSITY OF NOTRE DAME**, Notre Dame, IN

#### Course:

Mathematics in Elementary Education (Methods)

### **UNIVERSITY OF ALABAMA**, Tuscaloosa, AL

#### Courses:

Teaching Elementary Mathematics  
Teaching Elementary Mathematics (Early Childhood/Spec. Ed)  
Managing Effective Classrooms  
Concepts of Elementary School Mathematics  
Seminar in Mathematics Education

#### On-line Course development:

Concepts of Elementary School Mathematics  
Mathematics in Curriculum Research  
Seminar in Mathematics Education

### **UNIVERSITY OF LOUISVILLE**, Louisville, KY

#### Courses:

Elementary Mathematics Methods  
The Teaching Profession  
Building Learning Communities  
Promoting Student Learning in K-12 Classroom/ General Methods  
Curriculum Theory  
Teacher Leader: Mentoring and Coaching  
Literacy Learning and Cultural Differences

## Certifications

Alabama Mathematics & Science Technology Initiative (AMSTI)  
Trainer

2013

Nationally Certified Cognitive Coach	2011
National Board Certified Teacher	2001, 2011
Kentucky Elementary Education Program Consultant	2006
Kentucky Teaching Certification in Early Elementary Grades K-4 (& Self-Contained Grades 5-6)	1997, 2012, 2020

## **Honors and Awards**

2020	Missouri State University Mind's Eye Research & Scholarship Recognition
2020	Nominee for Missouri State University's Master Online Course Recognition Award (MOCRA)
2020	Participating Fellow in the NSF-funded Validity Evidence for Measurement in Mathematics Education (VM <sup>2</sup> Ed) conference
2018	Missouri State University Certified Distance Educator Award
2017	Participating Fellow in NSF-funded Validity Evidence for Measurement in Mathematics Education (VM <sup>2</sup> Ed) conference
2013	The Mathematics Education "Service, Teaching and Research" or STaR Program: 4th Cohort STaR Fellow
2012, 2013	Nominee for AACTE Dissertation of the Year Award (Karp & Larson)
2012	Faculty Favorite - The University of Louisville
2010	Inducted into Pi Lambda Theta Honorary Society
2008	Inducted into Golden Key International Honor Society
2006	Kentucky State Finalist for Presidential Award for Excellence in Mathematics Teaching (Elementary)
2005	Oldham County (Kentucky) Teacher of Excellence Academy
2003	Louisville Writing Project Fellow
2001	Distinguished Member Commonwealth Institute for Teachers
2000	Kentucky Reading Project Fellow

## **Media**

- Mind's Eye Research Magazine March 2020  
Summing it up: Adding context to education  
<https://blogs.missouristate.edu/mindseye/summingeducation/>  
Lifting Math from the Pages  
<https://www.youtube.com/watch?v=IzsMHDlcJ24&feature=youtu.be>
- Favorite Websites Spring 2020  
Rethinking Behavior (p.48)  
[https://www.pageturnpro.com/Midwest-Symposium-for-Leadership-in-Behavior-Disorders/94748-RETHINKING-Behavior-Spring-2020/flex.html?fbclid=IwAR0XgXEokaZLbV1-VhulV4z3f7xVCnXprNbYrQ1oFhiq4FtNLa-UnI\\_P-a4#page/1](https://www.pageturnpro.com/Midwest-Symposium-for-Leadership-in-Behavior-Disorders/94748-RETHINKING-Behavior-Spring-2020/flex.html?fbclid=IwAR0XgXEokaZLbV1-VhulV4z3f7xVCnXprNbYrQ1oFhiq4FtNLa-UnI_P-a4#page/1)
- KSMU Radio January 21, 2020  
Preparing Teachers for the New Classroom  
<https://www.ksmu.org/post/preparing-teachers-new-classroom#stream/0>
- University of Alabama News Center May 18, 2017  
UA Researchers Complete Co-Teaching Training with Area Educators  
<http://urweb01dev.ua.edu/urwebdev/uaneews/2017/05/ua-researchers-complete-co-teaching-training-with-area-educators/>
- Capstone Educator University of Alabama August 15, 2016  
Creating a Math Trail at Woodland Forrest Elementary (p.10)  
UA to Help Strengthen K-12 Special Education, Math Teachers (p.11)  
[https://issuu.com/ua\\_educator/docs/capstone\\_educator\\_2016](https://issuu.com/ua_educator/docs/capstone_educator_2016)
- WVUA News April 9, 2015  
TV Interview: In Support for Common Core State Standards
- University of Alabama College of Education Video October 2014  
<https://www.youtube.com/watch?v=02M9OUXqNo4>
- Alabama Grit 2013  
Video Interview Regarding Common Core State Standards  
\*No longer available