

Sandra Mammano Linder, PhD

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Eugene T. Moore School of Education
Clemson University
Clemson, SC 29631
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Academic Degrees

2009	Ph.D., Curriculum and Instruction Clemson University Dissertation Title: Exploring teacher perceptions of influential facilitators of K-5 mathematics professional development: A mixed methods investigation	Clemson, SC
2005	M.Ed., Elementary Education Georgian Court University	Lakewood, NJ
2001	B.F.A., Dance Montclair State University	Upper Montclair, NJ

Teaching Certifications

2003- Present	Elementary Education (K-5) New Jersey Instructional Certification
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Academic Appointment

2015- Present	Associate Professor of Early Childhood Mathematics Education Eugene T. Moore College of Education Clemson University	Clemson, SC
2009- 2015	Assistant Professor of Early Childhood Mathematics Education Eugene T. Moore School of Education Clemson University	Clemson, SC
2012-2014	Coordinator of Early Childhood Education Eugene T. Moore School of Education Clemson University	Clemson, SC
2006-2009	Adjunct Instructor of Early Childhood and Elementary Education Eugene T. Moore School of Education	

Clemson University

Clemson, SC

Professional Training

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| 2010 | Division K New Faculty Seminar
American Educational Research Association | Denver, CO |
| 2006-2009 | Graduate Research Assistant
Department of Mathematical Sciences
Math Out of the Box
Clemson University | Clemson, SC |
| 2007-2008 | Graduate Research Assistant
Eugene T. Moore School of Education
Barnwell Initiative
Clemson University | Clemson, SC |

Other Professional Experience

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|-----------|---|----------------|
| 2007-2009 | Guest Teacher of Mathematics K-5
Model lessons and professional development
Greenville Public Schools | Greenville, SC |
| 2004-2005 | Third Grade Teacher
Brick Township Public Schools | Brick, NJ |
| 2003-2004 | Permanent Substitute Teacher, K-2 and 3-5 Self Contained
Jackson Township Public Schools | Jackson, NJ |
| 2002-2003 | Substitute Teacher, Grades K-12
Brick Township Public Schools | Brick, NJ |
| 1999-2001 | Dance Teacher, PreK-12
Dance Designs | Fair Lawn, NJ |
| 1995-1997 | Dance Teacher, PreK-5
Yvette's Dance Studio | Cranford, NJ |

Publications

National and International Refereed Articles

Smart, J.B., & Linder, S.M. (In Press). Development, validation, and implementation of the Elementary Mathematics Motivation Inventory (EMMI): Examining motivational constructs in elementary mathematics. *Fields Mathematics Education Journal*.

- Linder, S.M., Emerson, A., Heffron, B., Shevlin, E., Vest, A. (2016). STEM use in Early Childhood: Viewpoints from the Field. *Young Children*, 71, 3, 87-91.
- Simpson, A. & Linder, S.M. (2016). The indirect effect of children's gender on early childhood educators' mathematical talk. *Teaching and Teacher Education*, 54, 44-53.
- Linder, S.M., Rembert, K., Simpson, A., & Ramey, M.D. (2016). A mixed-methods investigation of early childhood professional development for providers and recipients in the United States. *Professional Development in Education*, 42 (1), 123-149. DOI:10.1080/19415257.2014.978483
- Linder, S.M, Smart, J.B., & Cribbs, J. (2015). A multi method investigation of mathematics motivation for elementary age students. *School Science and Mathematics*, 115, 8, 392-403.
- Bannister, N. & Linder, S.M. (2015). Teaching *for* learning: Recasting a traditionally summative assessment as an intentionally formative experience. *The Educational Forum*, 79, 190-199. DOI:10.1080/00131725.2014.1002594
- Linder, S.M. (2015). Back to the beach! *Teaching Children Mathematics*, 21 (8), 464-465.
- Cribbs, J. & Linder, S.M. (2015). Bridging environments: Introducing hybrid space to the elementary classroom. *Childhood Education*, 91 (1), 41-45.
- McGaha, J. & Linder, S.M. (2014). Determining teacher candidates' attitudes towards global-mindedness. *Action in Teacher Education*, 36 (4), 305-321.
- Linder, S.M. (2014). Pirate problems to plunder. *Teaching Children Mathematics*, 21, (1), 16-17.
- Simpson, A. & Linder, S.M. (2014). An examination of mathematics professional development opportunities in child care settings. *Early Childhood Education Journal*, 42 (5), 335-342. DOI 10.1007/s10643-013-0612-7.
- Linder, S.M., Eckhoff, A., & Igo, L.B. (2013). Identifying influential facilitators of mathematics professional development: A survey analysis of elementary school teachers. *International Journal of Science and Mathematics Education*, 11, (6), 1415-1435.
- Linder, S.M., Ramey, M.D., & Zambak, S. (2013). Predictors of success for school readiness: A selective review of the literature. *Early Childhood Research and Practice*, 15, (1).
- Linder, S.M. & McGaha, J. (2013). Building on successes: Reflections from two approaches to study abroad for undergraduate and graduate students. *The Educational Forum*, 77, (3), 379-389.

- Cribbs, J. & Linder, S.M. (2013). Teacher practices and hybrid space in a fifth-grade mathematics classroom. *The Mathematics Educator*, 22, (2), 55-81.
- Linder, S.M. (2012). Building content and communities: Developing a shared sense of early childhood mathematics pedagogy. *Journal of Early Childhood Teacher Education*, 33, (2), 109-126. DOI: 10.1080/10901027.2012.675837
- Linder, S.M. (2012). Interactive whiteboards in early childhood mathematics: Strategies for effective implementation in Pre-K-Grade 3. *Young Children*, 67, (3), 26-35.
- Reprinted** as Linder, S.M. (2012). Interactive whiteboards in early childhood mathematics: Strategies for effective implementation in Pre-K-Grade 3. In A. Shillady & L. S. Muccio (Eds.), *Spotlight on young children and technology* (22-29). Washington, DC.: NAEYC.
- McGaha, J. & Linder, S.M. (2012). The impact of studying abroad on male preservice teachers: A phenomenological investigation. *Multicultural Perspectives*, 14, 3, 163-168. DOI: 10.1080/15210960.2012.697011
- Moore, C. & Linder, S.M. (2012). Using dance to deepen student understanding of geometry. *Journal of Dance Education*, 12, (3), 104-108. DOI:10.1080/15290824.2012.701175
- Tyminski, A.M. & Linder, S.M. (2012). Encouraging preschoolers emerging mathematics skills. In A. Shillady (Ed.), *Spotlight on Young Children: Exploring Math* (28-33). Washington, D.C.: NAEYC.
- Linder, S.M. (2011). The facilitator's role in elementary mathematics professional development. *Mathematics Teacher Education and Development*, 13, (4), 44-66.
- Linder, S.M., Powers-Costello, B., Stegelin, D. (2011). Mathematics in early childhood: Research-based rationale and practical strategies. *Early Childhood Education Journal*, 38, (3), 165-170. DOI 10.1007/s10643-010-0437-6
- Linder, S.M. (2010). A model of planning for mathematics instruction in the 21st century: Learning from the Reggio Emilia approach. *Teaching Children Mathematics*, 17, (4), 249-254.

National and International Refereed Articles: Methodological Contribution

- Crowe, B.M., Puymbroeck, M.V., Linder, S.M., McGuire, F.A., & Watt, P.J. (2015). The effects of yoga participation on women's quality of life and symptom management during the menopausal transition: A pilot study. *Health Care for Women International*, 36 (10), 1124-1142.

Hawkins, B.L., McGuire, F.A., Linder S.M., & Britt, T.W. (2015). Understanding the influence of contextual factors on community reintegration among injured military service members. *Journal of Rehabilitation Research and Development*, 52 (5), 527-542.

Hawkins, B.L., McGuire, F.A., Britt, T.W., & Linder, S.M. (2015). Identifying the contextual influences of community reintegration among injured servicemembers. *Journal of Rehabilitation Research and Development*, 52(2), 235-246.

Refereed Books/Book Chapters

Gee, K., Martin, H., & Linder, S.M. (In Press). Producers, Consumers, and Decomposers. *Council for Elementary Science International Sourcebook*.

Linder, S.M. & Simpson, A. (In Press). Connecting the Mathematics Identity of Early Childhood Educators to Classroom Experiences for Young Children. *In Forging connections in early mathematics teaching and learning*.

Regional Referred Articles

Linder, S.M., Visser, R., Knapp, K., & Moede, K. (2014). Integrating interactive whiteboards in mathematics centers for young children. *The MathMate*, 36, (2), 22-27.

Manuscripts Undergoing Refereed Review

Linder, S.M. & Simpson, A. (In Revisions). The Process of Enactment: Examining the Influences of Field Experiences on Early Childhood Preservice Teachers' Mathematics Beliefs

Deaton, B., Deaton, C.M., Linder, S.M. (In Revisions). Piecing the Puzzle Together: Building a Dialogue for Engaging Multiple Disciplines in Inquiry-based Mobile Learning through Professional Development

Jamil, F., Linder, S.M., & Stegelin, D. (Under Review). Teacher beliefs about early childhood STEAM education: Promises, challenges, and moving forward with intentionality.

Other Non-Refereed Publications

Linder, S.M., Ramey, M.D., & Zambak, S. (2011). *Predictors of success for school readiness and later school achievement: A selective review of the literature*. South Carolina First Steps: Greenville, SC.

Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing algebraic thinking, grade K: Rhythm and design*. Carolina Biological Supply: Burlington, NC.

- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing algebraic thinking, grade 1: Together and apart*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing algebraic thinking, grade 2: Collecting and sorting*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing algebraic thinking, grade 3: Plotting and growing*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing algebraic thinking, grade 4: Signs and symbols*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing algebraic thinking, grade 5: Steps and distance*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing geometric logic, grade K: Towers and trails*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing geometric logic, grade 1: Symmetry and shapes*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing geometric logic, grade 2: Rows and columns*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing geometric logic, grade 3: Shapes and paths*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing geometric logic, grade 4: Corners and containers*. Carolina Biological Supply: Burlington, NC.
- Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing geometric logic, grade 5: Conjectures and transformations*. Carolina Biological Supply: Burlington, NC.

Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing measurement benchmarks, grade K: Over and under*. Carolina Biological Supply: Burlington, NC.

Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing measurement benchmarks, grade 1: Up and down*. Carolina Biological Supply: Burlington, NC.

Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing measurement benchmarks, grade 2: Large and small*. Carolina Biological Supply: Burlington, NC.

Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing measurement benchmarks, grade 3: Scales and balances*. Carolina Biological Supply: Burlington, NC.

Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing measurement benchmarks, grade 4: Inside and outside*. Carolina Biological Supply: Burlington, NC.

Gunderson, D.J., King, P.P., Linder, S.M., Moss, D.A., Moss, W.F., Pepin, G., & Schumpert, J. (2010). *Math out of the box student record book, developing measurement benchmarks, grade 5: Tools and time*. Carolina Biological Supply: Burlington, NC.

Diaz, D.P., Gunderson, D.J., King, P.P., Lashley, E.L., Linder, S.M., Moss, D.A., Moss, W.F., & Schumpert, J. (2009). *Math out of the box, developing number concepts: Grade K: Kit A*. Carolina Biological Supply: Burlington, NC.

Diaz, D.P., Gunderson, D.J., King, P.P., Lashley, E.L., Linder, S.M., Moss, D.A., Moss, W.F., & Schumpert, J. (2009). *Math out of the box, developing number concepts: Grade K: Kit B*. Carolina Biological Supply: Burlington, NC.

Diaz, D.P., Gunderson, D.J., King, P.P., Lashley, E.L., Linder, S.M., Moss, D.A., Moss, W.F., & Schumpert, J. (2009). *Math out of the box, developing number concepts: Grade 5: Kit A*. Carolina Biological Supply: Burlington, NC.

Presentations

Refereed National/International Conference Papers, Posters, and Presentations

Linder, S.M. & Simpson, A. (Accepted). Examining the Effects of Mathematics Professional Development in Child Care Settings. **Paper** presented at the annual meeting of the American Educational Research Association. Washington, D.C.

- Emerson, A. & Linder, S.M. (Accepted). What survives the flight home? A Review of Research of the Reggio Inspired Approach. **Paper** presented at the annual meeting of the American Educational Research Association. Washington, D.C.
- Linder, S.M. (2015). Examining Changes in Mathematical Practices for Head Start and Early Head Start Teachers. **Paper** presented at the annual meeting of the National Association of Early Childhood Teacher Educators. Orlando, FL.
- Linder, S.M.; Emerson, A.; Hubbard, K.; & Taylor, C. (2015). Examining the teacher's role during center time: How to maximize collaboration, communication, and engagement through play. Presented at the annual meeting of the National Association for the Education of Young Children. Orlando, FL.
- Simpson, A. & Linder, S.M. (2015). *The indirect effect of children's gender on early childhood educators' mathematical talk*. **Paper** presented at the annual meeting of the American Educational Research Association. Chicago, IL.
- Linder, S.M. & Simpson, A. (2015). *Connecting methods courses and practicum experiences in early childhood mathematics*. **Paper** presented at the annual meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- Linder, S.M. & Simpson, A. (2014). *Is it enough? Examining opportunities for early childhood educators to engage in mathematics professional development*. **Paper** presented at the annual meeting of the American Educational Research Association. Philadelphia, PA.
- Linder, S.M., Rembert, K., Simpson, A., & Ramey, M.D. (2014). *Recipient perceptions of early childhood professional development*. **Paper** presented at the annual meeting of the American Educational Research Association. Philadelphia, PA.
- Linder, S.M. & Simpson, A. (2013). *Student teaching experiences and early childhood mathematics pedagogical beliefs: Identifying barriers to success*. **Paper** presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Chicago, IL.
- Simpson, A. & Linder, S.M. (2013). *Investigating providers and recipients perceptions of early childhood professional development in mathematics*. Poster presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Chicago, IL.
- Linder, S.M., Rembert, K., Simpson, A., & Ramey, M.D. (2013). *Investigating facilitator perceptions of quality and impact of early childhood professional development*. **Paper** presented at the annual meeting of the National Association of Early Childhood Teacher Educators, Washington, D.C.

- Linder, S.M. (2013). *Exploring changes in early childhood mathematics pedagogical beliefs within the context of a methods course*. Poster presented at the annual meeting of the National Association of Early Childhood Teacher Educators, Washington, D.C.
- Linder, S.M. & Simpson, A. (2013). *Mathematics pedagogical beliefs and early childhood student teaching*. Poster presented at the annual Research Pre-session of the National Council of Teachers of Mathematics. Denver, CO.
- Linder, S.M. & Simpson, A. (2013). *Investigating the influence of early childhood student teaching experiences on mathematics pedagogical beliefs*. **Paper** presented at the annual meeting of the American Educational Research Association. San Francisco, CA.
- Linder, S.M., Rembert, K., Simpson, A. Ramey, M.D., Brown, B., D'Amico, L., & Miller, K. (2013). *Examining professional development for the early care workforce: A multiphase mixed methods exploration*. Poster presented at the annual meeting of the American Educational Research Association. San Francisco, CA.
- Linder, S.M. & Simpson, A. (2012). *Examining changes in preservice teacher beliefs relating to early childhood mathematics pedagogy as a result of student teaching*. **Paper** presented at the annual meeting of the National Association of Early Childhood Teacher Educators. Atlanta, GA.
- Linder, S.M. & Smart, J.B. (2012). *Development, Validation, and Implementation of the Elementary Mathematics Motivation Inventory (EMMI)*. **Paper** presented at the annual meeting of the American Educational Research Association. Vancouver, Canada.
- McGaha, J. & Linder, S.M. (2012). *The Impact of Studying Abroad on Male Preservice Teachers: A Phenomenological Investigation*. **Paper** presented at the annual meeting of the American Educational Research Association. Vancouver, Canada.
- Linder, S.M. (2011). *Building Content and Communities: Developing a Shared Sense of Elementary Mathematics Content and Pedagogy with Grade Level Teams*. **Paper** presented at the 33rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Reno, NV.
- Cribbs, J. & Linder, S.M. (2011). *Investigating a 5th Grade Mathematics Teacher's Practices in Relation to Hybrid Spaces*. **Paper** presented at the 33rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Reno, NV.
- Linder, S.M., Smart, J.B., & Cribbs J. (2011). *Exploring student motivation for mathematics in an elementary setting*. **Paper** presented at the annual meeting of the American Educational Research Association. New Orleans, LA.
- Linder, S.M. & Smart, J.B. (2010). *Examining motivational constructs in mathematics for students across elementary grades*. **Paper** presented at the 32nd annual meeting of the

North American Chapter of the International Group for the Psychology of Mathematics Education. Columbus, Ohio.

Linder, S.M. (2010). *A mixed methods investigation identifying characteristics of influential facilitators of elementary mathematics professional development*. **Paper** presented at the 32nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Columbus, Ohio.

Linder, S.M. (2010). *A mixed methods investigation: Implications for the instrument development model*. **Paper** presented at the annual meeting of the American Educational Research Association. Denver, CO.

Linder, S.M. (2010). *Exploring teacher perceptions of influential facilitators of elementary mathematics professional development: A mixed methods investigation*. Poster presented at the annual meeting of the American Educational Research Association. Denver, CO.

Linder, S.M. & Smart, J. (2010). *An investigation of motivational constructs in mathematics*. Poster presented at the annual meeting Research Pre-session of the National Council of Teachers of Mathematics. San Diego, CA.

Pepin, G. & Linder, S.M. (2010). *Connecting science and math inquiry at the early childhood level*. Presented at the annual meeting of the National Council of Teachers of Mathematics. San Diego, CA.

Linder, S.M. (2010). *Examining the role of the facilitator in motivating teachers during elementary mathematics professional development*. Presented at the annual meeting of the Association of Mathematics Teacher Educators. Irvine, CA.

Stegelin, D., Powers-Costello, E., Linder, S.M., & Smart, J. (2009). *The impact of a study abroad experience on pre-service and in-service teachers: Voices of undergraduate and graduate students in South Carolina and California*. **Paper** presented at the annual meeting of the National Association of Early Childhood Teacher Educators. Washington, DC.

Pepin, G. & Linder, S. (2009). *Science literacy in the ELL classroom*. Presented at the annual meeting of the National Science Teachers Association. New Orleans, LA.

Linder, S. & Moss, D. (2009). *Connecting science and math inquiry through formative assessment*. Presented at the annual meeting of the National Science Teachers Association. New Orleans, LA.

Linder, S. & Moss, D. (2008). *Formative assessment in the classroom: Creating and using analytic rubrics*. Presented at the annual meeting of the National Science Teachers Association. Boston, MA.

- Linder, S. (2008). *Planning in an inquiry-based setting*. Presented at the annual meeting of the National Council for Teachers of Mathematics. Salt Lake City, UT.
- Stegelin, S., Correa, V., Eckhoff, A., Faust, E., & Linder, S. (2007). *A unique community/university collaboration targets early literacy in an impoverished rural area*. Presented at the annual meeting of the National Association for the Education of Young Children. Chicago, IL.
- Linder, S. (2007). *Improving planning practices of U.S. educators: Learning from approaches in Reggio Emilia and Japan*. Presented at the annual meeting of the National Association for the Education of Young Children. Chicago, IL.
- Linder, S., Gunderson, D., & Diaz, D. (2007). *Introducing Math Out of the Box, an inquiry based mathematics curriculum*. Presented at the annual meeting of the National Council of Teachers in Mathematics. Atlanta, GA.
- Dean, C. & Linder, S. (2007). *Using challenge-based modules to support change in pre-service teachers' beliefs about learning and teaching mathematics*. **Paper** presented at the 29th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education.
- Linder, S. & Gunderson, D. (2007). *Changing instructional practice in elementary settings*. **Paper** presented at the one hundred and fourteenth annual meeting of the American Society of Engineering Education.
- Stegelin, D. & Linder, S. (2007). *A university and community partnership: Modeling child advocacy to university students and citizens in a rural impoverished community*. Poster presented at the annual meeting for the National Association of Early Childhood Teacher Educators. Chicago, IL.

Invited Presentations

- Linder, S.M. (2015). *Examining cognitive skills for school readiness*. South Carolina Department of Education: Assessment Oversight Committee. Columbia, SC.
- Linder, S.M. (2015). *Moving towards a framework for mixing within mixed methods research*. Department of Engineering and Science Education. Clemson University. Clemson, SC.
- Linder, S.M. & Moss, D. (2010). *Working with the ASSET foundation*. Carolina Biological Supply. Burlington, NC.
- Linder, S. (2009). *Introducing Math Out of the Box*. Idaho Public Schools. Twin Falls, ID.
- Linder, S. (2009). *Introducing Math Out of the Box*. Oregon Public Schools. Eugene, OR.

- Linder, S. & King, P. (2008). *Train the trainer: Developing number concepts*. Lawrence Township Public Schools. Lawrence Township, NJ.
- Linder, S. (2008). *Train the trainer: Developing measurement benchmarks*. Lawrence Township Public Schools. Lawrence Township, NJ.
- Moss D. & Linder, S. (2007). *Train the trainer: Developing geometric logic*. Educational Testing Services. Lawrence Township, NJ.
- Linder, S. (2007). *Developing Measurement Benchmarks*. Educational Testing Services. Lawrence Township, NJ.
- Moss, D. & Linder, S. (2007). *Train the trainer: Developing algebraic thinking*. Educational Testing Services. Lawrence Township, NJ.

Regional/State Conference Presentations

- Linder, S.M. (2010). *Developing number sense at the early childhood level*. Presented at the South Carolina Association for the Education of Young Children. Columbia, SC.
- Linder, S.M. & Pepin, G. (2009). *Connecting science and math inquiry at the early childhood level*. Presented at the South Carolina Council of Teachers of Mathematics. Columbia, SC.
- Linder, S.M., King, P., & Gunderson, G. (2009). *Connecting algebraic thinking from kindergarten through fifth grade*. Presented at the South Carolina Council of Teachers of Mathematics. Columbia, SC.
- Schumpert, J. & Linder, S.M. (2009). *Developing number sense at the early childhood level*. Presented at the South Carolina Council of Teachers of Mathematics. Columbia, SC.
- Linder, S. (2008). *Meeting the standards in geometry: Grades K-2*. Presented at the annual meeting of the South Carolina Council for Teachers of Mathematics. Charleston, SC.
- Linder, S. (2008). *Examining probability and discrete mathematics in the elementary grades*. Presented at the annual meeting of the South Carolina Council for Teachers of Mathematics. Charleston, SC.
- Linder, S. (2007). *Using formative assessment when planning for instruction in an inquiry setting*. Presented at the regional meeting of the National Science Teachers Association. Birmingham, AL.
- Linder, S., Polakowski, J., & Moss, D. (2007). *What does it take to develop geometric logic?* Presented at the annual meeting of the New Jersey Education Association. Atlantic City, NJ.

Stegelin, D., Jaruszewicz, C., & Linder, S. (2007). *A collaborative study abroad of Reggio Emilia Italy: Bring SC students together for scholarship and cultural immersion*. Presented at the annual meeting of the South Carolina Association for the Education of Young Children. Columbia, SC.

Gunderson, D. & Linder, S. (2007). *Connecting algebra and data analysis through inquiry*. Presented at the 19th annual meeting of the Association Mathematics Teachers of New Jersey. Somerset, NJ.

Linder, S. (2007). *Math Out of the Box awareness session*. Presented at the annual meeting of the 10 County Mathematics Conference. Putnam County Schools. Putnam, NY.

Linder, S. (2006). *A model of inquiry*. Presented at the regional meeting of the National Science Teachers Association. Baltimore, MD.

Linder, S. (2006). *Math Out of the Box*. Presented at the regional meeting of the National Science Teachers Association. Baltimore, MD.

Local Presentations

Linder, S.M. & Schumpert, J. (2015). *Project BEEMS: Building Environments for Early Mathematics Success, Day 1*. Seneca Head Start. Seneca, SC.

Linder, S.M. (2015). *Project BEEMS: Building Environments for Early Mathematics Success- BEEMS B Group, Day 1*. Greenville Head Start. Greenville, SC.

Linder, S.M. (2015). *Moving Past Counting*. Presented at the inaugural STEAM Early Childhood Conference. Clemson University, Clemson, SC.

Linder, S.M. (2015). *Project BEEMS: Building Environments for Early Mathematics Success, Day 1*. Anderson Head Start. Anderson, SC.

Linder, S.M. (2014). *Project BEEMS: Building Environments for Early Mathematics Success, Day 2*. Greenville Head Start and Early Head Start. Greenville, SC.

Linder, S.M. (2013). *Project BEEMS: Building Environments for Early Mathematics Success, Day 1*. Greenville Head Start and Early Head Start. Greenville, SC.

Linder, S.M. (2010). *Developing number sense at the early childhood level*. Clemson University Early Childhood Professional Development Conference. Clemson, SC.

Linder, S. (2009). *Developing mathematical content knowledge*. Dorchester 2 Public School District. Dorchester, SC.

- Linder, S. (2008). *Developing number concepts: 5th grade*. East North Street Academy. Greenville, SC.
- Linder, S. & Gunderson, D. (2008). *Train the trainer: Developing number concepts*. Clemson University. Clemson, SC.
- Linder, S. (2008). *Developing measurement benchmarks: 1st grade*. Varennas Elementary School. Anderson, SC.
- Linder, S., King, P., Gunderson, D., & Moss, D. (2008). *Train the trainer: Developing number concepts*. Clemson University. Clemson, SC.
- Moss, D., King, P., Gunderson, D. & Linder, S. (2008). *Train the trainer: Developing number concepts*. Clemson University. Clemson, SC.
- King, P., Gunderson, D., & Linder, S. (2007). *Train the trainer: Developing measurement benchmarks*. Clemson University. Clemson, SC
- King, P., Gunderson, D., & Linder, S. (2007). *Train the trainer: Developing geometric logic*. Clemson University. Clemson, SC.
- King, P. & Linder, S. (2007). *Train the trainer: Developing algebraic thinking*. Clemson University. Clemson, SC.
- Stegelin, D. & Linder, S. (2007). *Early childhood environmental rating scale*. Barnwell County Schools. Barnwell, SC.
- Eckoff, A. & Linder, S. (2007). *Infant-toddler environmental rating scale*. Barnwell County Schools. Barnwell, SC.
- Linder, S. (2006). *Math out of the box: Reflection day*. East North Street Academy. Greenville, SC.
- Linder, S. & King, P. (2006). *Developing algebraic thinking: Data Analysis*. East North Street Academy. Greenville, SC.
- Diaz, D. & Linder, S. (2006). *Developing algebraic thinking: Data analysis*. Spartanburg School District I. Spartanburg, SC.
- Diaz, D. & Linder, S. (2006). *Developing algebraic thinking: Algebra*. Spartanburg School District I. Spartanburg, SC.

Grants

Grant Projects: Funded (State, Regional, Federal)

Title: Building Research Capacity for STEM Faculty Development:
Funding Agency: National Science Foundation
Role: Co-Principal Investigator
Amount of Funding: \$99,944

Title: Partnership Evaluation Grant (subcontract with USC)
Funding Agency: South Carolina Education Oversight Committee
Role: Co-Principal Investigator (Principal Investigator on Clemson subcontract)
Amount of Funding: \$36,000 for subcontract

Title: Building Environments for Early Mathematics Success
Funding Agency: PNC Bank Foundation
Role: Principal Investigator
Amount of Funding: \$50,000 (2015-2016)

Title: Center of Excellence for Mobile Learning (Research Subaward)
Funding Agency: South Carolina Commission on Higher Education
Role: Co-Principal Investigator
Amount of Funding: \$16,000 annually (2015-2017)

Title: Building Environments for Early Mathematics Success
Funding Agency: PNC Bank Foundation
Role: Principal Investigator
Amount of Funding: \$45,000 (2013-2014)

Title: Assessing the Landscape of Early Childhood Professional Development in South Carolina
Funding Agency: First Steps, SC (SCDOE- ECAC).
Role: Principal Investigator
Amount of Funding: \$100,000 (2011-2012)

Title: Developing Community Indicators of School Readiness and South Carolina
School Readiness Index: Collaborative Proposal to South Carolina First Steps
Funding Agency: First Steps, SC (SCDOE- ECAC).
Role: Co-Principal Investigator
Amount of Funding: \$80,000 (2011-2012)

Title: Identifying Predictors of Success for School Readiness
Funding Agency: First Steps, SC
Role: Principal Investigator
Amount of Funding: \$12,000 (2011)

Title: Professional Development for Integrated Inquiry (PDI²): Spartanburg District 7 Partnership

Funding Agency: South Carolina Department of Education
Role: Co-Principal Investigator
Amount of Funding: \$60,000 (2010-2014)

Title: Professional Development for Integrated Inquiry (PDI²): Orangeburg District 4 Partnership
Funding Agency: South Carolina Department of Education
Role: Co-Principal Investigator
Amount of Funding: \$30,000 (2010-2011)

Title: Professional Development for Integrated Inquiry (PDI²): Marion District 7 Partnership
Funding Agency: South Carolina Department of Education
Role: Co-Principal Investigator
Amount of Funding: \$15,000 (2010-2011)

Title: Professional Development for Integrated Inquiry (PDI²): Orangeburg District 3 Partnership
Funding Agency: South Carolina Department of Education
Role: Co-Principal Investigator
Amount of Funding: \$58,500 (2010-2013)

Grant Projects: Funded (University)

Title: Investigating STEM Faculty Development (TIGER grant)
Funding Agency: Clemson University, College of Engineering and Science
Role: Co-Principal Investigator
Amount of Proposed Funding: \$15,275

Title: Writing Mathematics Word Problems for Early Childhood and Elementary Classrooms
(Creative Inquiry)
Funding Agency: Clemson University
Role: Principal Investigator
Amount of Funding: \$6000 (2014-2016)

Title: Improving Mathematics Environments for Young Children (Creative Inquiry)
Funding Agency: Clemson University
Role: Principal Investigator
Amount of Funding: \$4000 (2014-2015)

Title: Clemson University Summer Institute for Online Education
Funding Agency: Clemson University
Role: Co-Principal Investigator
Amount of Funding: \$9,000 (2014)

Title: Examining Preservice and Inservice Teacher Beliefs Relating to Mathematics Pedagogy: A
Longitudinal Study
Funding Agency: Clemson University's School of Education: A⁴ Collaborative Research Grant
Program

Role: Principal Investigator
Amount of Funding: \$10,000 (2010-2012)

Grant Projects: Under Review

Title: Leveraging Mathematics and Science Teacher Communities for Equitable Practice
Funding Agency: National Science Foundation
Role: Co-Principal Investigator
Amount of Proposed Funding: \$2,993,064

Title: Data “A.F.F.E.C.T.S.” STEM Leaders: Analytics Facilitating Faculty Effectiveness in
Coaching Transfer Student Success
Funding Agency: National Science Foundation
Role: Co-Principal Investigator
Amount of Proposed Funding: \$299,250

Teaching and Advising

Courses Taught (Clemson University, 2009-Present)

EDEC 4300: Early Childhood Methods in Mathematics Teaching
EDEL 4520: Elementary Methods in Mathematics Teaching
EDEC 4840: Early Childhood Supervision of Student Teachers
EDEL 4810: Elementary Supervision of Student Teachers
EDEC 3000: Foundations of Early Childhood Education
EDEC 2200: Family, School and Community Relationships in Early Childhood
EDEC 3970: Creative Inquiry in Education
EDEC 8950: Integrating Math, Science, and Technology into Early Childhood Inclusive
Settings (Masters and Doctoral level)
EDEC 8900: Assessment and Program Planning in Early Childhood (Masters and Doctoral
level)
EDEC 8300: Early Childhood Practicum (Online course)
EDF 9720: Grounded Theory and Phenomenology Research Methods (Doctoral level)
ED 9750: Mixed Methods Research (Doctoral level)

Courses Taught (Clemson University, 2006-2009)

EDEL 4520: Elementary Methods in Mathematics Teaching
EDEC 4300: Early Childhood Methods in Mathematics Teaching
EDF 3340: Child Growth and Development
MTHSC 4810: Investigating Elementary Mathematics Curricula
EDEC 2200: Reggio Emilia Study Abroad

Graduate Advising

Doctoral-level Advising: Chair

Andrea Emerson (Ph.D. Curriculum and Instruction- Coursework in Progress)

Doctoral –level Advising: Committee Member (Methodology)

Brent Hawkins (Ph.D. Parks, Recreation, Tourism, and Management- Ph.D., 2013)

Brandi Crowe (Ph.D. Parks, Recreation, Tourism, and Management- Ph.D., 2013)

Tracy Manieri (Ph.D. Parks, Recreation, Tourism, and Management- Ph.D., 2012)

Heather McCrea (Ph.D. Curriculum and Instruction- Ph.D., 2014)

Cindy Hartman (Ph.D. Parks, Recreation, Tourism, and Management- Ph.D., 2015)

Courtney Faber (Ph.D. Engineering and Science Education-Ph.D., 2015)

Dennis Kombe (Ph.D. Curriculum and Instruction- Ph.D., 2016)

Gustavo Moran Soto (Ph.D. Engineering and Science Education, ABD)

Deanna Ramey (Ph.D. Curriculum and Instruction- ABD)

Roberto Flores (Ph.D. Educational Leadership- ABD)

Rachael Huber (Ph.D. Language, Literacy, Culture- ABD)

Alysha Walter, (Ph.D. Parks, Recreation, Tourism, and Management- ABD)

Catherine McGough, (Ph.D. Engineering and Science Education- ABD)

Julie Desmangles (Ph.D. Educational Leadership- Coursework in Progress)

Master-level Advising: Committee Member

Leigh Russell (M.Ed. Early Childhood Education- Graduated summer 2011)

Kim Satterfield (M.Ed. Early Childhood Education- Graduated summer 2010)

Erin Estes (M.Ed. Early Childhood Education- Graduated summer 2010)

Helen Prince (M.Ed. Early Childhood Education – Thesis, graduated spring 2010)

Service

Service to the Field of Scholarship

2015-Present Section Editor (STEM for Young Children), *Young Children*

2013-2015 Section Editor (Math by the Month), *Teaching Children Mathematics*

2012-2015 Consulting Editor, *Young Children*

2012-Present Guest Reviewer, *Mathematics Teacher Education and Development*

2011-Present Guest Reviewer, *Journal for Research in Mathematics Education*

2011-Present Guest Reviewer, *Young Children*

2011-Present Guest Reviewer, *Early Childhood Education Journal*

2011-Present Guest Reviewer, *Journal of Early Childhood Teacher Education*

- 2010-Present Guest Reviewer, *Journal of Mixed Methods Research*
- 2007-Present Guest Reviewer, *Teaching Children Mathematics*
- 2010 Guest Reviewer, University of Nebraska Dissertation Award, Emily Hayden
- 2009-Present Guest Reviewer, American Educational Research Association conference proposal reviewer (Division K and Research in Mathematics Education SIG)
- 2010-Present Guest Reviewer, National Council of Teachers of Mathematics Research Pre-session
- 2010-Present Guest Reviewer, North American Chapter of the International Group for the Psychology of Mathematics Education

Service to the Profession

- 2012-2015 Board Member, Greenville First Steps, SC
- 2010-2012 Treasurer, South Carolina Association of Early Childhood Teacher Educators
- 2007-2009 Student Liaison, American Educational Research Association
- 2007-2009 Student Representative, South Carolina Association of Mathematics Teacher Educators

Other National, State, and Regional Service

- 2015-Present Advisory Board member, Primrose Child Care Franchise
- 2015-Present Consultant, Primrose Child Care Franchise
- 2015-Present Member, Center for Childhood Learning and Development (CLAD Lab), Clemson University
- 2013-Present Professional development facilitator, SHARE Head Start (conducted ongoing early childhood mathematics professional development for over 200 Head Start and Early Head Start teachers)
- 2010-2011 Leadership team member of ASSET 4 Math, an extension of the Achieving Student Success through Excellence in Teaching (ASSET) nonprofit organization: Pittsburg, PA

Professional Service (University Level)

- 2015-Present Alternate: Clemson University Faculty Senate
- 2015-Present Chair: Support Services, Training, and Mentoring Subcommittee for the President's Commission on Women, Clemson University
- 2014-Present Member of President's Commission on Women, Clemson University (Nominated Position)
- 2014-Present Member: University Child Care Center Committee
- 2010-2015 Member: Clemson University Parking Committee
- 2014-2015 Member: University Undergraduate Curriculum Committee
- 2006-2007 Curriculum Development Exploratory Committee Member: Child Development Center

Professional Service (College and Department Level)

- 2015-Present Member: Ad Hoc Committee on Merit Pay
- 2015-Present Member: Collaborative Research Group: College of Education and College of Engineering and Science
- 2015-Present Co-Chair: Teaching and Learning Elections Committee
- 2015-Present Member: Ad Hoc Committee on M.Ed. Programming
- 2015-Present Member: Ad Hoc Committee Student Teaching Receptions
- 2014-Present Member: Ad Hoc Committee on Curriculum Development: ECE/ELE 5 year B.A to M.Ed.
- 2010-Present Member: Early Childhood NAEYC/SPA Accreditation Program Report Writing Committee
- 2009-Present Co-Coordinator: Early Childhood Education Advisory Board
- 2010-Present Faculty Advisor: SCAEYC Student Organization
- 2010-2015 Member: School of Education Curriculum Committee
- 2012-2014 Coordinator: Early Childhood Education

2012-2014 Council Member: School of Education Advisory Council

2014 Ad Hoc Committee Member: Review of Field Experiences for Education Students

2014 Ad Hoc Committee Member: Research Support in the School of Education

2007-2013 Early Childhood and Elementary Education Practicum Supervisor

2012 Search Committee Chair: Assistant/Associate in Early Childhood Education

2012 Search Committee Chair: Assistant in Early Childhood Education

2012 Search Committee Member: Arts and Creativity

2012 Faculty Mentor for Alison Leonard (Assistant Professor of Elementary Education)

2010 Search Committee Member: Department Chair of Teacher Education

2010 Section Committee Member: HEHD Awards of Excellence

2010 Member: Early Childhood Development Interdisciplinary Initiative Committee

2010 Member: Early Childhood and Elementary Practicum Placement Committee

2010 Early Childhood Education Graduate Independent Study Supervisor

2007-2008 Search Committee Member: Assistant professor in early childhood math/science

2006-2007 Search Committee Member: Assistant/Associate professor in elementary science

2006-2007 Elementary Education Exploratory Committee Member: Review of Master's Degree in Elementary Education

Professional Affiliations

American Educational Research Association (AERA)
 Division K- Teacher Education
 SIG- Research in Mathematics Education

National Council of Teachers of Mathematics (NCTM)
 South Carolina Council of Teachers of Mathematics (SCCTM)

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

Association of Mathematics Teacher Educators (AMTE)
 South Carolina Association of Mathematics Teacher Educators (SCAMTE)

National Association of Early Childhood Teacher Educators (NAECTE)
 South Carolina Association of Early Childhood Teacher Educators (SCAECTE)

National Association for the Education of Young Children (NAEYC)