

Denise A. Spangler

Dean

Mary Frances Early College of Education
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Education

PhD, Mathematics Education, University of Georgia, 1995
MS, Mathematics, Illinois State University, 1989
BSEd, Elementary Education, Illinois State University, 1987

Leadership Experience

Dean, Mary Frances Early College of Education, University of Georgia, May 2018-present

Interim Dean, College of Education, University of Georgia, March 2018-April 2018

Senior Associate Dean, College of Education, University of Georgia, January 2017-August 2018

Associate Dean for Faculty and Staff Services, College of Education, University of Georgia,
June 2014-December 2017

Department Head, Department of Mathematics and Science Education, University of Georgia,
December 2005-July 2014

Academic Positions

Bebe Aderhold Professor in Elementary Education, College of Education, University of Georgia,
2013-present

Professor, Department of Mathematics and Science Education, University of Georgia, 2006-present

Associate Professor, Department of Mathematics Education, University of Georgia, 2000-2006

Assistant Professor, Department of Mathematics Education, University of Georgia, 1995-2000

Selected Publications (Note: Denise A. Spangler has also published under the name Denise S. Mewborn.)

Journal Articles

Perez, L., Spangler, D. A., & Franklin, C. (2021). Engaging young learners with data: Highlights from GAISE II, Level A. *Harvard Data Science Review* 3(2).
<https://doi.org/10.1162/99608f92.be3c2ec8>

Hallman-Thrasher, A., & Spangler, D. A. (2020). Purposeful questioning with high cognitive demand tasks. *Mathematics Teacher: Learning and Teaching PreK-12* 113 (06), 446-459.

- Spangler, D. A., & Hallman-Thrasher, A. (2014). Using task dialogues to enhance preservice teachers' abilities to orchestrate discourse. *Mathematics Teacher Educator* 3(1), 58-75.
- Kilic, H., Cross, D. I., Mewborn, D. S., Ersoz, F. A., Swanagan, D. K., Kim, J. (2010). Techniques for small group discourse. *Teaching Children Mathematics* 16(6), 350-357.
- Franklin, C. A., & Mewborn, D. S. (2008). Statistics in the elementary grades: Exploring distributions of data. *Teaching Children Mathematics* 15(1), 10-16. (This article was reprinted in Hirsch, C., Lappan, G., & Reys, B. (2012). *Curriculum issues in an era of Common Core State Standards* (pp. 165-173). Reston, VA: National Council of Teachers of Mathematics.)
- Mewborn, D. S., & Stinson, D. W. (2007). Teacher education as assisted performance. *Teachers College Record* 109(6), 1457-1487.
- Mewborn, D. S., & Tyminski, A. M. (2006). Lortie's apprenticeship of observation revisited. *For the Learning of Mathematics* 36(3), 30-32.
- Leatham, K. R., Lawrence, K. G., & Mewborn, D. S. (2005). Getting started with open-ended assessment. *Teaching Children Mathematics* 11, 413-419.
- Mewborn, D. S., & Huberty, P. D. (2004). A site-based model for professional development in mathematics at elementary school level. *Pythagoras* 59, 2-7
- Mewborn, D. S., Beckmann, S., Davion, V., Desmet, C, Ross, S. H., Oliver, J. P., Preissle, J., & Ruppertsburg, H. (2002). Expanding the "Great Conversation" to include arts and sciences faculty. *Innovative Higher Education* 27(1), 39-51.
- Gober, D. A., & Mewborn, D. S. (2001). Promoting equity in mathematics classrooms. *Middle School Journal* 32(3), 31-35.
- Mewborn, D. S. (2001). Teachers' content knowledge, teacher education, and their effects on the preparation of elementary teachers in the United States. *Mathematics Teacher Education and Development* 3, 28-36.
- Mewborn, D. S. (2000). Learning to teach elementary mathematics: Ecological elements of a field experience. *Journal of Mathematics Teacher Education* 3(1), 27-46.
- Mewborn, D. S. (2000). Meaningful integration of mathematics methods instruction and field experience. *Action in Teacher Education* 21(4), 50-59.
- Mewborn, D. S., & Stanulis, R. N. (2000). Making the tacit explicit: Teacher educators' values and practices in a co-reform teacher education program. *Teacher Education Quarterly* 27(3), 5-22.
- Mewborn, D. S. (1999). Creating a gender equitable classroom environment. *International Journal of Leadership in Education* 2, 103-115.

- Mewborn, D. S. (1999). Reflective thinking in preservice elementary mathematics teachers. *Journal for Research in Mathematics Education* 30, 316-341.
- Mewborn, D. S., & Huberty, P. D. (1999). Questioning your way to the Standards. *Teaching Children Mathematics* 6(4), 226-227, 243-246.
- Mewborn, D. S. (1998). The quarter quandary: An illustration of NCTM's Professional Teaching Standards. *Teaching Children Mathematics* 5, 160-163.
- D'Ambrosio, B. S., & Mewborn, D. S. (1994). Children's constructions of fractions and their implications for classroom instruction. *Journal of Research in Childhood Education*, 8, 150-161.
- Spangler, D. A. (1992). Assessing students' beliefs about mathematics. *Arithmetic Teacher*, 40, 148-152. (This article was reprinted in Lambdin, D. V., Kehle, P. E., & Preston, R. V. (Eds.) (1996). *Emphasis on assessment: Readings from NCTM's school-based journals*. Reston, VA: National Council of Teachers of Mathematics and in Teppo, A. R. (1999). *Reflecting on practice in elementary school mathematics*. Reston, VA: National Council of Teachers of Mathematics.)

Book Chapters

- Spangler, D. A., & Williams, S. R., (2019). The role of theoretical frameworks in mathematics education research. In K. R. Leatham (Ed.) *Designing, conducting, and publishing quality research in mathematics education*. Basel, Switzerland: Springer.
- Jacobs, V. R. & Spangler, D. A. (2017). Core practices in K-12 mathematics teaching. In J. Cai (Ed). *Compendium of research in mathematics education* (pp. 186-221). Reston, VA: National Council of Teachers of Mathematics.
- Spangler, D. A., & Ovrick, R. L. B. (2017). Models for mathematics specialist program development and delivery. In M. B. McGatha & N. R. Rigelman (Eds.) *Elementary mathematics specialists* (pp. 41-51). Charlotte, NC: Information Age Publishing.
- Kilpatrick, J., & Spangler, D. A. (2016). Educating future mathematics education professors. In L. D. English & D. Kirschner (Eds.) *Handbook of international research in mathematics education* (pp. 297-309, 3rd edition). New York: Routledge.
- Spangler, D. A. (2014). Attending to teachers in mathematics teacher education research. In J-J. Lo, K. R. Leatham, & L. R. VanZoest (Eds.) *Research trends in mathematics teacher education* (pp. 181-189). Berlin: Springer.
- Spangler, D. A., Kim, J., Cross, D., Kilic, H., Iscimen, F. A., Swanagan, D. (2014). Using rich tasks to promote discourse. In K. Karp (Ed.) *Annual perspectives in mathematics education* (pp. 97-103). Reston, VA: National Council of Teachers of Mathematics.
- Spangler, D. A. (2011). Relationships between content knowledge, authority, teaching practice,

and reflection. In J. Luebeck & J. W. Lott (Eds.) *Mathematics teaching: Putting research into practice at all levels* (pp. 41-55), San Diego, CA: Association of Mathematics Teacher Educators.

Mewborn, D. S. (2008). Program delivery issues, opportunities, and challenges. In R. E. Reys & J. A. Dossey (Eds.) *US doctorates in mathematics education: Developing stewards of the discipline (Conference Board of Mathematical Sciences issues in mathematics education, Volume 15)* (pp. 129-136). Providence, RI: American Mathematical Society.

Mewborn, D. S., & Cross, D. I. (2007). Mathematics teachers' beliefs and classroom practice. In M. E. Strutchens & W. G. Martin (Eds.) *The learning of mathematics—National Council of Teachers of Mathematics Yearbook* (pp. 259-269). Reston, VA: National Council of Teachers of Mathematics.

Franklin, C. A., & Mewborn, D. S. (2006). The statistical education of PreK-12 teachers: A shared responsibility. In G. Burrill (Ed.) *Thinking and reasoning with data and chance—National Council of Teachers of Mathematics Yearbook* (pp. 335-344) Reston, VA: National Council of Teachers of Mathematics.

Mewborn, D. S. (2003). Teaching, teachers' knowledge, and their professional development. In J. Kilpatrick, W. G. Martin, & D. Schifter (Eds.), *A research companion to the Principles and Standards for School Mathematics* (pp. 45-52). Reston, VA: National Council of Teachers of Mathematics.

Ball, D. L., Lubienski, S., & Mewborn, D. S. (2001). Research on teaching mathematics: The unsolved problem of teachers' mathematical knowledge. In V. Richardson (Ed.) *Handbook of research on teaching* (4th ed.) (pp. 433-456). New York: Macmillan.

Books Edited

Spangler, D. A., & Wanko, J. J. (Eds.) (2017). *Enhancing your classroom practice with the research behind Principles to actions*. Reston, VA: National Council of Teachers of Mathematics.

Mewborn, D. S., & Lee, H. S. (Eds.) (2010). *Scholarly practices and inquiry in the preparation of mathematics teachers (Association of Mathematics Teacher Educators Monograph VI)*. San Diego: AMTE.

Mewborn, D. S. (Series Editor) (2006). *Teachers engaged in research: Inquiry into mathematics* (Vols. I-IV). Reston, VA: National Council of Teachers of Mathematics/InfoAge.

Policy Documents (member of writing team)

Bargagliotti, A., Franklin, C., Arnold, P., Gould, R., Johnson, S., Perez, L., & Spangler, D. A. (2020). *PreK-12 guidelines for assessment and instruction in statistics education II*. Reston, VA: National Council of Teachers of Mathematics and American Statistical Association.

American Statistical Association (2015). *Statistical education of teachers*. Arlington, VA: Author.

Conference Board of Mathematical Sciences. (2012). *The mathematical education of teachers II*. Washington, DC: CBMS.

American Statistical Association (2007). *Guidelines for assessment and instruction in statistics education*. Alexandria, VA: Author.

National Council of Teachers of Mathematics. (1995). *Assessment standards for school mathematics*. Reston, VA: Author.

Selected Grant Activity

University System of Georgia Board of Regents, *STEM Education Improvement Plan*, 2016-2018, \$750,000, Co-principal investigator (T. Burg, PI).

Spencer Foundation, *Learning to Teach Elementary Mathematics*, Revisited 2014-2016, \$49,975, Principal Investigator.

National Science Foundation, *Capitalizing on Talent: The Noyce Fellows Program at the University of Georgia*, 2009-2012, \$998,000, Principal investigator (with S. Oliver, C. Kutal).

National Science Foundation, *Semi-Formal Classroom Assessment for Enhancing Discourse, Curriculum, and Achievement in Middle School Mathematics*, \$900,000, 2005-2008, Co-principal investigator (D. Hickey, Indiana University, PI).

Spencer Foundation, *Learning to Teach Elementary Mathematics*, 2000-2004, \$250,000, Principal Investigator.

National Science Foundation, *Integrating Gender Equity and Reform*, 1995-1998, \$796,092 (to Georgia Institute of Technology with a \$146,236 subcontract to University of Georgia and additional subcontracts to Georgia State University, Georgia Southern University, and Clark-Atlanta University), Co-principal investigator. (C. Thorsen, Principal Investigator)

Courses Taught

- EMAT 3400 Children's Mathematical Learning
- EMAT 3410 Mathematics Methods in PreK-5
- EDEC 4020L Field Experience in Early Childhood Education
- EDEC 4040 Student Teaching Seminar in Early Childhood Education (EdTPA support)
- EMAT 6420 Mathematics Methods in Early Childhood Education
- EMAT 6990 Research Seminar in Mathematics Education
- EMAT 7050 Problems of Teaching Secondary School Mathematics Education
- EMAT 8020 Advanced Study of Mathematics Teaching and Teacher Education
- MATH 1700 Arithmetic and Problem Solving
- FYOS 1001 Freshman Seminar, Contemporary Issues in K-12 Education
- STAT 6050 Data Analysis for Elementary and Middle School Teachers

- EDUC 8999 Improving Academic Writing
- GRSC 7950 Developing an Academic Teaching Portfolio

Supervision of Student Research

- PhD Major Professor: 39 students, 38 graduated
- PhD committee member: 56 students (53 graduated, 3 in progress)
- EdS Advisor: 11
- EdS committee member: 7
- MA Advisor: 1

Selected Professional Service

- Member, National Council of Teachers of Mathematics Board of Directors, 2015-2018
 - Member, Budget and Finance Committee, 2015-2018
 - Chair, Budget and Finance Committee, 2017-2018
 - Member, Executive Committee, 2017-2018
 - Board Liaison, *Journal for Research in Mathematics Education* editorial panel, 2015-2018
 - Board Liaison, American Statistical Association/National Council of Teachers of Mathematics Joint Committee, 2017-2018
- Editorial Board, National Council of Teachers of *Mathematics Handbook of Research on Mathematics Teaching and Learning*, 2012-2016.
- Service, Teaching and Research (STaR) Fellows Program, National Science Foundation and Association of Mathematics Teacher Educators
 - Institute Staff Member, 2010-2013
 - Institute Co-Director, 2014-2016
 - Chair of Fundraising Committee, 2017-2019
- Editorial Board Member, *Mathematics Teacher Educator*, 2011-2015 Chair of Editorial Panel, 2011-2014
- Advisory Board, Wisconsin Institute for Mathematics, 2010-present
- Member, Task Force on Elementary Mathematics Specialists, Association of Mathematics Teacher Educators, 2009.
- Editorial Board Member, *Journal for Research in Mathematics Education*, 2007-2010 Chair of Editorial Panel, 2008-2010
- Conference Chair, International Group for the Psychology of Mathematics Education—North American Chapter, 2001-2002.
- American Educational Research Association Special Interest Group for Research in Mathematics Education
 - Awards Committee Chair, 2012-

- 2014
- Recording Secretary, 2001-2003

Selected Service to the University

- Chair, Search Committee for the Dean of the Odum School of Ecology, 2022-23 (appointed)
- Co-chair, Search Committee for the Senior Vice President for Academic Affairs and Provost, 2018-19 (appointed)
- Staff Salary Administration Plan Advisory Group, 2017-2018 (appointed)
- President's Task Force on Undergraduate Education, 2017 (appointed)
- Teaching Academy
 - Faculty Affairs Symposium Planning Committee, 2015-16
 - Executive Committee, 2015-18
 - Mentor, Teaching Academy Fellows Program, 2016-18
- Search Committee for the Vice President for Development and Alumni Relations, University of Georgia, 2013-14 (appointed)
- Search Committee for the President, University of Georgia, 2012-2013 (appointed)
- Review Team, Office of Public Affairs, 2010-2011 (appointed)
- Grievance Committee, Alternate Member, 2010-2012 (appointed)
- Honorary Degree Committee, 2008, 2009 (appointed)
- Academic Honesty, Office of the Vice President for Instruction
 - Member, Multiple Violations Review Board, 2007-present
 - Chair, Academic Honesty Appeals Advisory Committee, 2002-2003
 - Hearing Panelist, 1999-2008
- William A. Owens Award Selection Committee, Office of the Vice President for Research, 2006, 2007, 2008 (appointed)
- Selection Committee for the Richard B. Russell Excellence in Undergraduate Teaching Awards, 2004-2006 (appointed)
- President's Advisory Committee, 2003-2006 (elected) Chair, 2005-2006 (elected)
- University Council, 2000-2003, 2005-2008 (elected)

- Educational Affairs Committee, 2000-2003, 2005-2008
 - Chair, 2001-2003, 2007-2008
- Faculty Benefits Committee, 2000-2002
- Intercollegiate Athletics Committee, 2005-2008

Selected Service to the College

- College of Education State of Education Conference Planning Committee, 2013-2017 (appointed)
- EdTPA Coordinator Search Committee, 2013 (appointed)
- College of Education Alumni Awards Committee, 2013-2017 (appointed)
- College of Education Curriculum Committee, 2012-2014 (elected)
- College of Education Awards Committee, 2004-2005, 2012-2013 (elected) College of Education Bylaws Committee, 2010-2012 (appointed)
- Search Committee for Director of the Improving Teacher Quality grant, 2010 (appointed)
- Chair, Committee to Define the Role of the Office of Academic Programs in the College of Education, 2009 (appointed)
- Capital Campaign Steering Committee, 2003-2008 (appointed)
- Chair, Committee on the Office of Professional Education, 2004 (appointed)
- Promotion and Tenure Committee, 2002 (appointed)
- College of Education Research Advisory Committee, 2002-2003 (appointed)
- College of Education Faculty Senate, 1999-2002 (elected)
 - Steering Committee, 2000-2001 (appointed)
- College of Education Committee on Committees, 1998-2000 (elected)
 - Chair, 1998-1999
 - Co-chair, 1999-2000
- College of Education Undergraduate Curriculum Committee, 1996-98 (elected)
 - Chair, 1997-1998
- Early Childhood Education Restructuring Team (School of Teacher Education), 1995-1997. (appointed)

Selected Awards and Honors

- Palladia, University of Georgia, 2022
- Phi Kappa Phi, University of Georgia, 2019
- Executive Leadership Institute, University System of Georgia Board of Regents, 2009-2010
- The Enlightening Professor Award, Delta Gamma Sorority, University of Georgia, 2005
- Richard B. Russell Award for Excellence in Undergraduate Teaching, University of Georgia, 2004
- Teaching Academy member, University of Georgia, 2002-present
- LEAD Athens participant, Athens Area Chamber of Commerce, 2002-2003
- Reviewer Appreciation Award, American Educational Research Association Publications Committee for service to *Educational Researcher*, 2002
- Hall of Fame inductee, Illinois State University College of Education, 2002
- Kappa Delta Epsilon Educational Honor Society Outstanding Faculty Member Award, University of Georgia College of Education, 2002
- Sarah Moss Fellowship, University of Georgia, 2000-2001
- D. Keith Osborn Sr. Faculty Senate Award for Teaching Excellence, University of Georgia College of Education, 1999
- Kappa Delta Epsilon Educational Honor Society Award for Excellence in Teaching, University of Georgia College of Education, 1999
- Lilly Teaching Fellow, University of Georgia Office of Instructional Development, 1996-1997