

JANET B. ANDREASEN

College of Education and Human Performance
School of Teaching, Learning, and Leadership
University of Central Florida
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EDUCATION

Ph.D., Mathematics Education, University of Central Florida, Orlando, FL., May 2006
Dissertation: *Classroom Mathematical Practices in a Preservice Elementary Mathematics Education Course using an Instructional Sequence related to Place Value and Operations*. Chair: Juli K. Dixon.

Master of Arts, Mathematics Education, University of Central Florida, Orlando, FL. December, 1999.

Bachelor of Science, Biomedical Engineering, University of Miami, Coral Gables, FL. June, 1997.

EMPLOYMENT

- 2009-present **Lecturer**, Mathematics Education, University of Central Florida, Orlando, FL. Teach undergraduate and graduate courses including learning theory, assessment, research methods in mathematics and science education, content and methods courses for mathematics education, using technology in mathematics education, introductory and capstone seminars in secondary education. Coordinate the Secondary Education program (including undergraduate and graduate education). Mentor mathematics education graduate students.
- 2006/2009 **Visiting Assistant Professor**, Mathematics Education, University of Central Florida, Orlando, FL. Taught undergraduate and graduate courses including content and methods courses for mathematics education and technology in teaching mathematics. Advisor for undergraduate and graduate mathematics education programs. Internship clinical coordinator.
- 2005/2006 **Visiting Instructor**, Mathematics Education, University of Central Florida, Orlando, FL. Taught undergraduate and graduate content and methods courses for mathematics education. Advisor for undergraduate and graduate mathematics education programs. Internship clinical coordinator.
- 2002/2005 **Graduate Student Teacher**, Mathematics Education and MSPD, University of Central Florida, Orlando, FL. Taught undergraduate and co-taught graduate content and methods courses for mathematics education. Advisor for secondary mathematics education programs. Supported work of state-wide mathematics and science professional development program including curriculum writing.
- 1999/2002 **Mathematics Teacher**, Lake Howell High School. Taught Algebra I, Geometry, and Algebra II courses.

- 1999 **Mathematics Teacher**, Lyman High School. Taught Geometry, Informal Geometry, and AP Computer Science.
- 1998 **Graduate Student Teacher**, Mathematics, University of Central Florida, Orlando, FL. Taught college algebra discussion section.

FUNDED GRANTS

- Resident Teacher Professional Preparation Program (RTP³). Florida Department of Education Race to the Top Grant, **Co-Principal Investigator** (\$10,020,562, funded 2011-2014).
- Geometry Professional Development Series for Teachers - GPS for Teachers. Florida Department of Education Teacher Quality Grant, **Principal Investigator** (\$1,400,247.00, funded 2011-2014).
- Minor in Mathematics and Social Science Education - Professional Training Opportunity Grant. Florida Department of Education, **Co-Principal Investigator** (\$10,000, funded 2006).
- Undergraduate Materials Grant for Mathematics Methods. University of Central Florida, **Co-Principal Investigator** (\$10,522, funded 2003).

REFEREED PUBLICATIONS

Articles and Chapters

- Dixon, J.K., Avila, C., Bawatneh, Z., Deichert, D., Howse, T., Sotillo, M., & **Andreasen, J.B.** (in press). Redefining the whole: Common errors in elementary preservice teachers' self-authored word problems for fraction subtraction. *Investigations in Mathematics Learning*.
- Taylor, R.T., **Andreasen, J.**, Haciomeroglu, E.S., & Powell, S. (in press). Co-created, interrelated, and applied with co-responsibility: Preparing STEM graduates to be middle and high school teachers. *Florida Educational Research Journal*.
- Andreasen, J.B.** & Haciomeroglu, E.S. (2013). Engaging geometry students through technology. *Mathematics Teaching in the Middle School*, 19 (5), 308.
- Tobias, J. & **Andreasen, J.B.** (2013). Developing multiplicative thinking from additive reasoning. *Teaching Children Mathematics*, 20 (2), 102 - 109.
- Haciomeroglu, E.S. & **Andreasen, J.B.** (2013). Exploring calculus with dynamic mathematics software. *Mathematics and Computer Education*, 47 (1), 6-18.
- Andreasen, J.B.** & Hunt, J.H. (2012). Using math stations for commonsense inclusiveness. *Teaching Children Mathematics*, 19 (4), 238 – 246.
- Dixon, J.K., **Andreasen, J.B.**, Roy, G.J., Wheeldon, D.A., & Tobias, J.M. (2011). Development of prospective teachers' productive disposition related to fraction operations. In D.J. Brahier & W.R. Speer (Eds). *Motivation and Disposition: Pathways to Learning Mathematics: NCTM Seventy-third Yearbook* (pp. 279 – 290). Reston, VA: National Council of Teacher of Mathematics.

- Hunt, J.H. & **Andreasen, J.B.** (2011). Making the most of Universal Design for Learning. *Mathematics Teaching in the Middle School*, 17 (3), 166-172.
- Dixon, J. K., **Andreasen, J. B.**, & Stephan, M. (2009). Establishing social and sociomathematical norms in an undergraduate mathematics content course for prospective teachers: The role of the instructor. *AMTE Monograph VI: Scholarly Practices and Inquiry into the Mathematics Preparation of Teachers* (pp. 43 – 66). San Diego, CA: Association of Mathematics Teacher Educators.
- Andreasen, J.B.** & Haciomeroglu, E.S. (2009). Training teachers in multiple environments: Microteaching versus mixed-reality. *Faculty Focus*, 8, (1), p. 7.
- Andreasen, J.B.**, Haciomeroglu, E.S., Akyuz, D., Coskun, S., Cristwell, P., & Whitby, P.S. (2008). Teacher Training in Multiple Environments: Microteach versus Virtual. *Florida Association of Teacher Education E-Journal*. 1, (8), p. 1-20.
- Andreasen, J.B.**, Swan, B.A, & Dixon, J.K. (2007). A framework for identifying stages of teacher change resulting from extended mathematics professional development. *FOCUS – On Learning Problems in Mathematics*, 29 (4), 13-29.
- Dixon, J.K., Swan, B.A., **Andreasen, J.B.**, Bamberger, A., & Yoder, D. (2004). MSPD, A statewide program that improves mathematics teachers’ knowledge. *Dimensions in Mathematics*, 24, (2), 28-32.
- Dixon, J.K, Swan, B.A., **Andreasen, J.B.**, Bamberger, A., & Yoder, D. (2004). MSPD, A statewide program that improves science teachers’ knowledge. *The Florida Science Teacher*, 16, 11-14.

INVITED PUBLICATIONS

Books

- Andreasen, J.B.**, Spalding, L.T., & Ortiz, E. (2010). *CliffsTestPrep FTCE: Elementary Education K-6*. Hoboken, NJ: Wiley Publishing, Inc.
- Ortiz, E. & **Andreasen, J.B.** (2007). *CliffsTestPrep CSET: Mathematics*. Hoboken, NJ: Wiley Publishing, Inc.

PRESENTATIONS

- Haciomeroglu, E.S. & **Andreasen, J.B.** (2014, June). *Using simulation technology to enhance instruction in algebra*. Paper presented at the annual conference of the Science and Mathematics Teacher Imperative, Association of Public and Land Grant Universities, Milwaukee, WI.
- Andreasen, J.B.**, Haciomeroglu, E.S. & McGinley, D. (2014, April). *Three-dimensional relationships: Making sense of surface area and volume*. Workshop presented at the annual meeting of the National Council of Teachers of Mathematics, New Orleans, LA.

- Haciomeroglu, E.S, **Andreasen, J.B.**, & Powell, S. (2014, April). *Harnessing the power of technology: Simulations for learning algebra concepts*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, New Orleans, LA.
- Mainali, B.R., Knot, E.M., & **Andreasen, J.B.** (2014, April). *From paper constructions to technology: Investigating parallel lines and angles*. Workshop presented at the annual meeting of the National Council of Teachers of Mathematics, New Orleans, LA.
- Andreasen, J.B.**, McGinley, D., & Zghayyar, A. (2013, October). *Using stations to make sense of three dimensional relationships*. Paper presented at the annual meeting of the Florida Council of Teachers of Mathematics, Orlando, FL.
- Andreasen, J.B.**, Haciomeroglu, E.S., Taylor, R., & Powell, S. (2013, June). *Using game-based simulation for teacher preparation*. Roundtable presented at the annual meeting of the Science and Mathematics Teacher Imperative, St. Louis, MO.
- Haciomeroglu, E.S., **Andreasen, J.B.**, Wilson, C., & Wakefield, L. (2013, June). *Job-embedded teacher preparation: Lessons learned*. Session presented at the annual meeting of the Science and Mathematics Teacher Imperative, St. Louis, MO.
- Andreasen, J.B.**, Haciomeroglu, E.S., Zghayyar, A., Knot, E., & Mainali, B. (2013, June). *Enhancing the implementation of the SMP in geometry through professional development using dynamic geometry software*. Roundtable presented at the annual meeting of the Science and Mathematics Teacher Imperative, St. Louis, MO.
- Andreasen, J.B.**, McGinley, D., & Bawatneh, Z. (2013, April). *Using teacher- and student-made videos in the mathematics classroom*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Denver, CO.
- Taylor, R., **Andreasen, J.B.**, Haciomeroglu, E.S., Powell, S., & Ellis, A. (2013, March). *UCF RPT3: STEM resident teacher professional preparation program*. Paper presented at the annual meeting of the American Association of Colleges of Teacher Education, Orlando, FL.
- Taylor, R., **Andreasen, J.B.**, & Haciomeroglu, E.S. (2013, January). *UCF STEM resident teacher professional preparation program*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.
- Andreasen, J.B.**, McGinley, D., Zghayyar, A., & Bawatneh, Z. (2012, October). *Screen-capture software for teaching, learning, and assessing mathematics*. Paper presented at the annual meeting of the Florida Council of Teachers of Mathematics, Orlando, FL.
- Powell, S., Taylor, R., **Andreasen, J.B.**, & Haciomeroglu, E.S. (2012, October). *RTP3: A model job-embedded teacher preparation program for STEM graduates*. Paper presented at the annual meeting of the Florida Association of Teacher Educators, Jacksonville, FL.
- Andreasen, J.B.** & Haciomeroglu, E.S. (2012, October). *Geometric constructions with technology*. Session presented at the annual conference for Florida Virtual School, Orlando, FL.
- Andreasen, J.B.** (2012, June). *A model job-embedded teacher preparation program for STEM graduates*. Roundtable presented at the annual meeting of the Science and Mathematics Teacher Imperative, Washington DC.

- Andreasen, J.B.**, Hynes, M. & Young, C. (2012, June). *UCF resident teacher professional preparation program*. Poster presented at the annual meeting of the Science and Mathematics Teacher Imperative, Washington DC.
- Andreasen, J.B.** & Howse, T. (2012, April). *Where are your students? Using technology to teach virtually*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Philadelphia, PA.
- Andreasen, J.B.** (2011, October). *Multiple manipulatives for multiple representations of mathematical concepts*. Session presented at the Annual Meeting of the Florida Council of Teachers of Mathematics, Jacksonville, FL.
- Andreasen, J.B.** (2011, April). *Creating inclusive environments through accessible curriculum: Universal Design for Learning*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
- Tobias, J.M., **Andreasen, J.B.**, & Zhang, X. (2011, April). *Why we don't always need to cross multiply*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
- Andreasen, J.B.** (2010, October). *Teaching probability and statistics to depth*. Session presented at the Annual Meeting of the Florida Council of Teachers of Mathematics. Orlando, FL.
- Andreasen, J.B.** & Tobias, J.M. (2010, April). *Building a foundation for understanding fraction operations: Using concrete contexts*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.
- Tobias, J.M., Dixon, J.K., & **Andreasen, J.B.** (2010, April). *Telling the "whole" story: Making sense of fraction language*. Paper to be presented at the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.
- Andreasen, J.B.** (2009, October). *Surviving the next generation: Making the most of the new sunshine state standards for teaching secondary mathematics*. Session presented at the Annual Meeting of the Florida Council of Teachers of Mathematics. Palm Beach, FL.
- Andreasen, J.B.** & Haciomeroglu, E.S. (2009, September). *Teacher training in virtual environments*. Paper presented at the annual meeting of the Psychology of Mathematics Education-North America Chapter. Atlanta, GA.
- Andreasen, J.B.**, Cristwell, P., & Akyuz, D. (2009, April). *Developing algebraic thinking through multiple representations: When a symbolic answer is not enough*. Session presented at the Annual Meeting of the National Council of Teachers of Mathematics. Washington, DC.
- Andreasen, J.B.** & Haciomeroglu, E.S. (2009, March). *Developing pre-service teachers' mathematical knowledge for teaching algebra*. Session presented at the Annual Meeting of the Research Council on Mathematics Learning. Rome, GA.
- Andreasen, J.B.** & Haciomeroglu, E.S. (2009, March). *Learning to teach in multiple environments: A comparison study*. Session presented at the Annual Meeting of the Research Council on Mathematics Learning. Rome, GA.

- Haciomeroglu, E.S., **Andreasen, J.B.**, Akyuz, D., Coskun, S., Cristwell, P., & Schaefer Whitby, P. (2009, February). *A comparison of teaching environments: Microteach versus virtual*. Working session presented at the Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- Andreasen, J.B.**, Akyuz, D., Cristwell, P., & Dang, T. (2008). *Going deeper: Algebra*. Workshop presented at Teaching to Depth: Implementing the Next Generation Mathematics Standards. UCF Academy/TJEEI Professional Development Series. Orlando, FL.
- Andreasen, J.B.** & Cristwell, P. (2008, October). *Using multiple representations to foster algebraic thinking*. Session presented at the Annual Meeting of the Florida Council of Teachers of Mathematics. Jacksonville, FL.
- Andreasen, J.B.**, Haciomeroglu, E.S., Akyuz, D., Coskun, S., Cristwell, P., & Whitby, P.S. (2008, October). *Teacher training in multiple environments: Microteach versus virtual*. Session presented at the Annual Meeting of the Florida Association of Teacher Educators. Orlando, FL.
- Andreasen, J.B.** & Haciomeroglu, E.S. (2008). *Prospective teachers' understanding of algebra*. Poster presented at the Florida Association of Mathematics Teacher Educators Mini-Conference. Orlando, FL.
- Andreasen, J. B.** (2008, April). *It's all in how you slice it: Examining 3-D relationships*. Session presented at the Annual Meeting of the National Council of Teachers of Mathematics. Salt Lake City, UT.
- Andreasen, J.B.**, Roy, G., Safi, F., Tobias, J.M., & Dixon, J.K. (2008, January). *Prospective teachers' development of mathematical knowledge for teaching related to number and operations*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators. Tulsa, OK.
- Andreasen, J.B.** (2007, October). *Like slicing bread: Understanding geometrical relationships*. Session presented at the Annual Meeting of the Florida Council of Teachers of Mathematics. Orlando, FL.
- Andreasen, J.B.** (2007, July). *Making geometry real*. Session presented at the 31st Annual SECME Summer Institute. Daytona Beach, FL.
- Dixon, J.K., **Andreasen, J.B.**, & Stephan, M. (2007, April). *Establishing norms in an undergraduate elementary mathematics content course*. Poster Session presented at the Research Presession of the annual meeting of the National Council of Teachers of Mathematics. Atlanta, GA.
- Andreasen, J.B.** & Steele, B. (2007, April). *A learning trajectory for whole number and operations*. Research Session presented at the Annual Meeting of the National Council of Teachers of Mathematics. Atlanta, GA.
- Dixon, J.K & **Andreasen, J.B.** (2007, January). *Classroom Teaching Experiments (CTEs) in Undergraduate Education Courses*. Presented at the University of Central Florida College of Education Faculty Meeting, Orlando, FL

Dixon, J.K, Stephan, M., **Andreasen, J.B.**, Wheeldon, D., & Roy, G.J. (2006, April). *Implementing design-based research: Research that changes practice*. Work session presented at the Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics. St. Louis, MO

Andreasen, J.B., Roy, G., & Dixon, J.K. (2006, January). *Explaining algorithms: What do preservice teachers need to know?* Paper presented at the annual meeting of the Association of Mathematics Teacher Educators. Tampa, FL.

Andreasen, J.B. & Swan, B.A. (2005, August). *Teaching Algebra with Understanding using Algebra Tiles*. Workshop presented at the annual meeting of the Orange County Council of Teachers of Mathematics. Orlando, FL.

Swan, B.A. & **Andreasen, J.B.** (2005, August). *Using Manipulatives to teach Fractions*. Workshop presented at the annual meeting of the Orange County Council of Teachers of Mathematics. Orlando, FL.

Andreasen, J.B. & Swan, B.A. (2005, April). *Developing algebraic reasoning through patterning in the primary grades*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics. Anaheim, CA.

Andreasen, J.B. & Swan, B.A. (2004, October). *The effects of extended mathematics professional development on teacher practice and manipulative use in elementary school*. Paper presented at the annual meeting of the School Science and Mathematics Association. Atlanta, GA.

Andreasen, J.B. (2003, October). *Fractions, fractions everywhere*. Paper presented at the annual convention of the Florida Council of Teachers of Mathematics. Indialantic, FL.

Dixon, J.K, **Andreasen, J.B.**, & Swan, B.A. (2003, October). *Mathematics and science professional development program*. Paper presented at the annual meeting of the Florida Council of Teachers of Mathematics. Indialantic, FL.

HONORS AND AWARDS

Morgridge 21st Century Mentor – College of Education, 2011-2012
Morgridge 21st Century Fellow – College of Education, 2010-2011
Excellence in Graduate Student Teaching – College of Education, 2004
Dean’s Fellowship, University of Central Florida, 2002-2005

PROFESSIONAL DEVELOPMENT & SERVICE

National

Local Arrangements Chair, Association of Mathematics Teacher Educators Annual Conference, 2009
Manuscript Reviewer, *Teaching Children Mathematics*, 2008 - present
Manuscript Reviewer, *Mathematics Teacher*, 2008 - present
Manuscript Reviewer, *Mathematics Teaching in the Middle School*, 2007 – present

College/School

Member, CAEP Steering Committee, 2013-present

Member, Student Issues Committee, 2010 – present
Member, Secondary Program Area, 2009 - present
Coordinator of Secondary Education, 2009 – present
Member, Clinical Experiences Advisory Committee, 2007 – present
Member, Visiting Instructor, Mathematics Education Search Committee, 2012
Member, Faculty Administrator Search Committee, 2011
Member, NCATE Advisory Committee, 2010-2011
Member, Internship Rubric Revision Committee, 2009
Member, Clinical Coordinator Search Committee, 2009
Member, Clinical Experiences Internship I Task Force, 2008
Member, Secondary/Post-Secondary Program Committee, 2005 – 2009
Coordinator, Mathematics Education, B.S. 2005 – 2009
Coordinator, Mathematics Education, M.A., 2005 – 2009
Coordinator, Mathematics Education, M.Ed., 2005 – 2009.
Member, Secondary Mathematics Education Search Committee, 2005.

Community

Volunteer, The Geneva School, Winter Park, FL, 2008 – present
Judge, Sunshine State Scholars, Seminole County Public Schools, 2007, 2008

Continuing Education

Faculty Summer Conference, Faculty Center for Teaching and Learning, Summer 2010
Faculty Winter Conference, Faculty Center for Teaching and Learning, Fall 2008
Course Innovation Project, Scholarship of Teaching and Learning, Spring 2008
Web Course Design and Implementation Training (IDL 6543), Spring 2006
Livetext Training at Basic and Intermediate Levels, 2005
New Faculty Orientation, August 2005

Professional Affiliations

American Educational Research Association (AERA)
Association of Mathematics Teacher Educators (AMTE)
Florida Association of Mathematics Teacher Educators (FAMTE)
Florida Council of Teachers of Mathematics (FCTM)
National Council of Teachers of Mathematics (NCTM)

DOCTORAL COMMITTEE MEMBERSHIP (Date of Graduation)

In Progress

Bhesh Mainali

Deana Deichert, Recipient of the Graduate Student Teaching Award

Ryan Kasha

2014

Lisa Brooks, *Replacing The “Raise Your Hand To Speak” Rule With New Social And Sociomathematical Norms In An Elementary Mathematics Classroom*

2013

Tashana Howse, *A Case Study Exploring the Relationship between Culturally Responsive Teaching and a Mathematical Practice of the Common Core State Standards*

Cheryl Avila, *Secondary and Postsecondary Calculus Instructors' Expectations of Student Knowledge of*

Functions: A Multiple-Case Study

2010

Clara Gill, *An evaluation of integrated curriculum as it exists in mathematics and science SSS as well as the subsequent supportive presentation of those standards in eighth grade mathematics and science textbooks.*

Didem Akyuz, *Supporting a Standards-based Teaching and Learning Environment: A Case Study of an Expert Middle School Mathematics Teacher*

2009

Jennifer Tobias, *Preservice elementary teachers' development of rational number understanding through the social perspective and the relationship among social and individual environments.* Recipient of the Graduate Student Teaching Assistant Award, Award for Best Oral Presentation at the Graduate Research Forum, and Graduate Student Teaching Award.

Farshid Safi, *Exploring the understanding of whole number concepts and operations: A case study analysis of prospective elementary school teachers.* Recipient of the Graduate Student Teaching Assistant Award.

2008

George Roy, *Prospective teachers' development of whole number concepts and operations during a classroom teaching experiment.* Recipient of the Graduate Student Teaching Assistant Award and Graduate Teaching Award.

**MASTERS COMMITTEE MEMBERSHIP
(Date of Graduation)**

2012

Aryn Siegel, *The Influence of Choice in Manipulatives on Second Grade Students' Attitudes, Achievement, and Explanations of Two-Digit Addition Concepts**

Kelly Klingler, *Mathematical Strategies for Teaching Problem Solving: The Influence of Teaching Mathematical Problem Solving Strategies on Students' Attitudes in Middle School*

2011

Monica Friske, *Influence of Using Context Supportive of the Area Model on Sixth Grade Students' Performance when Writing Word Problems for Fraction Subtraction and Multiplication.*

Kay Jolicoeur, *The Influence of Virtual Manipulatives on Second Graders' Acquisition of Place Value Concepts*

2010

Stacey Braddock, *Developing fourth graders' proficiency in basic multiplication facts through strategy instruction*

Adam Traas, *Development of a spatial ability treatment using computer generation of isometric and orthographic projections*

2009

Jessica Maghun, *Fostering teacher's conceptual understanding of ordering, adding, and subtracting fractions through school-based professional development*

Terry Cuffel, *Linking place value concepts with computational practices in third grade.*

2008

Nichole Shorter, *Comparing assessment methods as predictors of student learning in undergraduate mathematics.*

Darlene Hoke, *Effects on student performance of using hands-on activities to teach seventh grade students measurement concepts.*

Melissa Wittcop, *The effects of heuristic instruction, journal writing, and discourse on student performance in problem solving.*

Joseph Roicki, *Effects of discussion and writing on student understanding of mathematics concepts.*

2007

Marino Nardelli, *Examining sociomathematical norms within the context of decimals and fractions in a sixth grade classroom.*

Elizabeth Hensley, *The influence of discourse and journal writing on second graders' acquisition of multidigit addition concepts.*

2006

Lisa Egendoerfer (Brooks), *Challenging a traditional social norm in a second grade mathematics class.*
Awarded College of Education Outstanding Thesis Award.

**HONORS IN THE MAJOR – UNDERGRADUATE COMMITTEE MEMBERSHIP
(Date of Graduation)**

In progress

Porscha Clonts,

2010

Sarah Badders, *The effect of internship experience on perceptions of classroom management of undergraduate teacher candidates*

Ashton Dacus, *Acquisition and transference of physics-based conceptual knowledge: an analysis of fourth-grade students' ability**

2009

Cynthia Romero, *Teacher beliefs on developmentally appropriate tasks**

*Denotes service as committee chair