



Curriculum Vitae

Joseph Michael Furner, Ph.D.

I. PERSONAL DATA/EDUCATION

Office

Department of Teaching and Learning
College of Education
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1.1 Educational Experience

1996

Doctor of Philosophy

The University of Alabama, Tuscaloosa, Alabama
Major: Curriculum and Instruction/Mathematics Education
Minors: Computer Technology in Education and Mathematics

1993

Master of Arts in Education

The University of Alabama, Tuscaloosa, Alabama
Major: Secondary/Middle School Education-Mathematics

1987

Bachelor of Science

The State University of New York at Oneonta, Oneonta, New York
Major: Nursery-Grade 12, Mathematics Education
Permanent Teacher Certification N-9, Mathematics and Grades 6-12
Mathematics from the State of NY and Middle School Mathematics from the
State of Massachusetts

Computer Skills: PC/Windows/Macintosh-Word-processing, E-Mail,
Blackboard, Canvas, LiveText, Networking, Internet,
BASIC programming, GeoGebra

Foreign Language: Fluent in Spanish - Read, write, and speak
Read and speak some French and Italian

1.2 Professional Experience

1996-Currently

Assistant, Associate, and Full Professor

(Tenured and promoted to Associate in 2002 and to Full Prof. in 2013)

Florida Atlantic University, Port St. Lucie/Jupiter/Boca Raton Campuses

Department of Teacher Education now called Teaching and Learning

- Leadership Team Rep for Jupiter Campus, DTL Fall 2015
- Faculty Assembly Steering Committee Rep for DTL, 2016-2017
- Area Team Leader for Mathematics, 2006-2007
- Teach Mathematics Education Methods Courses K-9, 7-12, and Graduate
- Teach Curriculum and Instruction Courses, i.e. Trends and Issues, Doc. Sem.
- Research, student advising, and community service
- Professional Development School Liaison with Garden City Elementary Technology Magnet School and Indian Pines Community Elementary School
- Committee Chair for TE Goals/Mission Statement
- Committee member for NPB Travel Funds Committee
- Committee member for Graduate Programs Renewal
- University Committee member for the University Library
- Clinical Ed. Training and Student Intern Supervision
- Chair of Search committee for new faculty position
- University Faculty Council and Committee on Committees
- Search committees for university and COE faculty and staff
- Dean of the COE Search Committee Assistant to Assoc. Dean
- COE Faculty Advisory Steering Committee Member from Teacher Ed.
- COE International Committee
- COE Technology Committee
- Mentoring of New Professors
- Associate Dean Search Committee
- NCATE Knowledge, Skills, and Dispositions Committee for TE
- COE Advancement Officer Search Committee
- Received Tenure and Promotion from Asst to Assoc Prof. August 2002
- Secretary for Faculty Assembly, 2005-2006
- Graduate Programs Committee, DTE, 2006-2007
- Student Advisor for both undergrads and graduate students, 1996-currently
- Doctoral Dissertation Chair and Diss. member for COE Grad. Students
- Graduation Ceremony Marshal for both Grad. and Undergrad. for COE

**Summer 1996
Fall 2012**

Adjunct Professor

University of Alabama, Tuscaloosa

- Department of Educational Computer Technology/International Programs
- Professor of an advanced level computer technology course entitled *Curriculum Integration of Technology*
- Professor of Grad. K-12 Math Methods Course in Bucaramanga, Colombia

1993 - 1996

Graduate Teaching Assistant

The University of Alabama, Tuscaloosa

- Instructor of undergraduate methods, education, and mathematics courses
- Research Assistant with Professional Development School
- Coordinator of International Programs overseas education courses
- Secondary Faculty committee member
- Supervisor of Student-Interns in Mathematics Education (7-12)
- Assisted in NCATE, SACS, and Alabama State College of Education Reviews

Summer 1994

Internship/Curriculum Development

The National Association of Elementary School Principals, Virginia

- Research in trends/issues/problems and the Middle School Concept

2003 – Currently

Mathematics Program Consultant (Pro-Bono)

Hogar Nueva Granada, Bogota, Colombia (Low-income barrio school K-9)

- Provides continuous training for teachers on curriculum and best practices for teaching mathematics
- Developed the math curriculum and sequence for the math program for the school and students

2002 - 2004

Mathematics Teacher/Curriculum Support/Consultant

Colegio Nueva Granada, Bogota, Colombia (American type K-12 school)

- Taught full-time high school geometry
- Provided curriculum support for the K-12 Math program
- Textbook Selection Committee
- Mathematic Department member
- Director's mathematics improvement committee
- Overseeing the elementary math specialist program
- Developed Math Grade Level Expectations for Grades PK-5
- Developed the math curriculum PreK-5 for the local barrio school
- Taught a graduate methods course through Portland State University for school-wide math improvement for all teachers interested

2000 - 2002

Mathematics Teacher for Technology-Enhanced Lesson Plans

Golden Glades Elementary School, North Miami, Florida and Welleby Elementary School, Sunrise, Florida

- Developed K-5 technology-enhanced math lesson plans taught and field-tested in the schools and published with The Beacon Learning Center
- Part of the Preparing Tomorrow's Teachers for Using Technology (PT3) project
- Worked with classroom teachers and students
- Attended many workshops such as Beacon and Marcopolo for incorporating technology in the curriculum and instruction

1998 - 2001

Mathematics Resource Teacher/Professional Development Support

Indian Pines Community Elementary School, Lake Worth, Florida

- Taught all grades K-5, mathematics
- Organized family math nights
- Provided workshops and resources for all teachers for teaching mathematics
- Worked with clinical/supervised student teacher interns
- Liaison for Florida Atlantic University
- Worked with the math/technology club

1997 - 1998

Mathematics Resource Teacher/Professional Development Support

Garden City Elementary School, Ft. Pierce, Florida

- Taught mathematics
- Organized family math nights
- Provided workshops and resources for all teachers for teaching mathematics
- Worked with clinical/supervised student teacher interns
- Liaison for Florida Atlantic University

1989 - 1993

Mathematics Teacher

The American School Foundation, A.C., Mexico City, Mexico

- Taught middle school and high school mathematics courses
- Taught middle school science, incorporated team teaching
- Served as Teacher Representative to the Superintendent
- Instructed peer teachers on the use of math manipulatives
- Interacted with a diverse student and teacher population
- Incorporated computer-assisted-instruction within lessons
- Served as Faculty Advisor to the principal, Served as Class Advisor
- Served on Math/Science Textbook/Curriculum Committee

1987 - 1989

Middle School Teacher

Annunciation Regional School/Rome City School, New York

- Taught middle school mathematics, science, and health
- Served as Class Advisor
- Assisted in the performance of school plays/social activities
- Developed and used integrative teaching of disciplines

II. RESEARCH AND SCHOLARLY ACTIVITIES

Publications

Books

Furner, J. M. (2009). *Living well: Caring enough to do what's right*. North Charleston, South Carolina: Booksurge Publishing.

Instructional Materials (Peer Reviewed)

Furner, J. M. (2017). Personalizing knowledge is the key to successful students and online classes. *Online Learning Consortium*. Retrieved September 3, 2017 at: https://secure.onlinelearningconsortium.org/effective_practices/personalizing-knowledge-key-successful-students-and-online-classes

Furner, J. M., & Jacobsen, A. (2002). Reinforcing fractions using a fraction calculator. *Beacon Learning Center*. Retrieved April 24, 2002, from <http://www.beaconlc.org/boa/display.asp?lessonid=9198>.

Jacobsen, A. & Furner, J. M. (2002) Learning about shapes with tangrams and the net. *Beacon Learning Center*. Retrieved April 24, 2002, from <http://www.beaconlc.org/boa/display.asp?lessonid=9196>.

Furner, J. M., & Jacobsen, A. (2001). Exploring area/perimeter through coordinate geometry. *Beacon Learning Center*. Retrieved December 19, 2001, from <http://www.beaconlc.org/boa/display.asp?lessonid=8286>.

Furner, J. M., & Jacobsen, A. (2001). Internet field trip on fractions and geometry. *Beacon Learning Center*. Retrieved December 19, 2001, from <http://www.beaconlc.org/boa/display.asp?lessonid=8238>.

Chapters or Articles in Books

Furner, J. M. (2021). Addressing math anxiety in a stem world: Using children's literature, photography, and GeoGebra to teach mathematics and get young people ready for gamification and life. In *Gamification and Social Networks in Education*, MacroWorld Pub. Ltd., U. Bakan & S. Berkeley (Eds.), P. 31-58. https://doi.org/10.1007/978-981-15-7341-5_1.

Furner, J. M. (2015). Effective strategies for teaching mathematics to English language learners (ELL). In Ariza, E.;Yahya, N.; Zainuddin, H.;Morales-Jones, C; *Fundamentals of Teaching English to Speakers of Other Languages: In K-12 Mainstream Classrooms*. 4th Edition. (pp. 317-341) Dubuque: Iowa. Kendall Hunt.

- Furner, J.M., & Ridener, B. (2011). Effective strategies for teaching mathematics to English language learners (ELL). In Zainuddin, H;Yahya, N; Morales-Jones, C; Ariza,E., *Fundamentals of Teaching English to Speakers of Other Languages: In K-12 Mainstream Classrooms. 3rd Edition.* (pp.279-298) Dubuque: Iowa. Kendall Hunt.
- Furner, J. M, & Ridener, B. (2011). Activity Workbook/Challenge Sheets in Mathematics on CD as part of Chapter). In Zainuddin, H;Yahya, N; Morales-Jones, C; Ariza,E., *Fundamentals of Teaching English to Speakers of Other Languages: In K-12 Mainstream Classrooms. 3rd Edition.* Dubuque: Iowa. Kendall Hunt.
- Furner, J. M. (2007). Effective strategies for teaching mathematics to English language learners (ELL). In Zainuddin, H;Yahya, N; Morales-Jones, C; Ariza,E., *Fundamentals of Teaching English to Speakers of Other Languages: In K-12 Mainstream Classrooms. 2nd Edition.* (pp.259-275) Dubuque: Iowa. Kendall Hunt.
- Furner, J. M. (2007). Activity Workbook/Challenge Sheets in Mathematics on CD as part of Chapter). In Zainuddin, H;Yahya, N; Morales-Jones, C; Ariza,E., *Fundamentals of Teaching English to Speakers of Other Languages: In K-12 Mainstream Classrooms. 2nd Edition.* Dubuque: Iowa. Kendall Hunt.
- Furner, J. M., & Ridener, B. (2002). Effective strategies for teaching mathematics to English language learners (ELL). In Zainuddin, H;Yahya, N; Morales-Jones, C; Ariza,E., *Fundamentals of Teaching English to Speakers of Other Languages: In K-12 Mainstream Classrooms.* (pp. 246-267) Dubuque: Iowa. Kendall Hunt.
- Furner, J. M, & Ridener, B. (2002). Activity Workbook/Challenge Sheets as part of Chapter In Zainuddin, H;Yahya, N; Morales-Jones, C; Ariza,E., *Fundamentals of Teaching English to Speakers of Other Languages: In K-12 Mainstream Classrooms.* Dubuque: Iowa. Kendall Hunt.

Articles in International/National/State Journals: Refereed

- Gonzalez-DeHass, A. R., Furner, J. M., Vásquez-Colina, M. D., & Morris, J. D. (2021). Achievement goals as predictors of female pre-service elementary school teachers' self-efficacy for learning math in a methods course. *Journal of Early Childhood Teacher Education* 42(2). P.1 of 20. DOI: 10.1080/10901027.2021.1955052.
- Furner, J. M. (2021). Using photography inserted into GeoGebra to teach mathematics to learners in a meaningful way. Paper presented at *the International Conference on Technology in Collegiate Mathematics 33rd Annual Conference*, Virtual Reimagined/On Demand, March 12, 2021. Vol. 33, [Pages 1-14]. [Accepted Presentation and Published Conference Proceeding]
- Furner, J. M. (2021). An alternative sudoku puzzle with letters while addressing math anxiety.

Transformations, [Accepted Publication in Progress].

Higgins, C. M., Furner, J. M., and Gerencser, C. (2021). Addressing math anxiety with incoming high school freshman: An in-depth look at a high school principal constructed action research project, *Mathitudes Online*, 1(1), 1-18

Furner, J. M., Powers, J. & Brown, S. (2021). Studying Mayan culture in the elementary classroom: Integrating mathematics, visual arts and technology. *International Journal of Whole Schooling*, 17(1), 1-27.

Furner, J. M., & Yahya, N. (2020). Using Geogebra, photography, and vocabulary to teach mathematics while aiding our ESOL populations. *Transformations*, 6(1), 19-41.

Furner, J. M., & Marinas, C. A. (2020). Teaching math with GeoGebra while developing a passion for photography. Paper presented at the *International Conference on Technology in Collegiate Mathematics 32nd Annual Conference*, Orlando, FL, March 13, 2020. Vol. 32, [Pages 1-17]. [Accepted Presentation and Published Conference Proceeding]

Furner, J.M., & Bousalis, R. (2020). A lesson plan to address immigration: The importance of connecting mathematics and the social sciences in the classroom. *Trends and Issues e-Journal*, pages 1 of 15.

Higgins, C. M., Furner, J. M., & Gerencser, C. (2020). Using bibliotherapy and personal reflection as tools for reducing math anxiety. *Journal of Teacher Action Research*, 6(2), 54-69.

Bousalis, R., & Furner, J. M. (2020). Linking middle school mathematics and social studies through immigration issues. *Middle School Journal*, 51(1), 19-28.
DOI: 10.1080/00940771.2019.1689777

Furner, J. M. (2019). Tackling math anxiety through photography while using GeoGebra. *Transformations*, 5(1), 59-75.

Furner, J. M., & Higgins, C. (2019). Empowering teacher leadership to address math anxiety in today's schools. *Transformations*, 5(1), 4-23.

Furner, J. M. (2019). Fostering imagination and creativity with GeoGebra in mathematics teacher education. Paper presented at the *International Conference on Technology in Collegiate Mathematics 31st Annual Conference*, Phoenix, AZ, March 16, 2019. Vol. 31, [pp. 1 of 18, In press]. [Published Conference Proceeding]

Furner, J. M. (2019). Math anxiety trends: A poor math attitude can be a real disability. *Journal of Advances in Education Research*, 4(2), 75-85.
<https://dx.doi.org/10.22606/jaer.2019.42004>

- Furner, J. M. (2018). Using children's literature to teach mathematics: An effective vehicle in a STEM world. *European Journal of STEM Education*, 3(3), 14.
<https://doi.org/10.20897/ejsteme/3874>
- Furner, J. M. (2018). GeoGebra, photography, and picture books: A means to end math anxiety. Paper presented at *the International Conference on Technology in Collegiate Mathematics 30th Annual Conference*, Washington, D.C., March 17, 2018. Vol. 30, pp. 1 of 12. [Published Conference Proceeding]
- Furner, J. M. (2018). Planning a family math night-The how to's: A checklist for success. *Transformations*, 4(1), 1 of 16.
- Gonzalez-DeHass, A. R., Furner, J. M., Vásquez-Colina, M. D., & Morris, J. D. (2017). Pre-service elementary teachers' achievement goals and their relationship to math anxiety. *Learning and Individual Differences*, 60, 40-45.
<https://doi.org/10.1016/j.lindif.2017.10.002>
- Furner, J. M. (2017). Teachers and counselors: Building math confidence in schools. *European Journal of STEM Education*, 2(2), 1-10. <https://doi.org/10.20897/ejsteme.201703>
- Furner, J. M., & Worrell, N. L. (2017). The importance of using manipulatives in teaching math today. *Transformations*, 3(1), 4-28.
- Furner, J. M. (2017). Helping all students become Einstein's using bibliotherapy when teaching mathematics to prepare students for a STEM world. *Pedagogical Research*, 2(1), 1-11.
- Furner, J. M. (2017). Using fairy tales and children's literature in the math classroom: Helping all students become Einstein's in a STEM world. *Journal of Advances in Education Research*, 2(2), 103-112. <https://dx.doi.org/10.22606/jaer.2017.22006>
- Furner, J. M., & Brewer, E. A. (2017). Connecting the mathematics we teach to its history: Part II. *Dimensions in Mathematics*, 37(1), 10-14.
- Furner, J. M., & Brewer, E. A. (2016). Associating mathematics to its history: Connecting the mathematics we teach to its past. *Transformations*, 2(2), 4-21.
- Furner, J. M. (2016). Every student can be an Einstein: Addressing math anxiety in today's classrooms. *Transformations*, 2(2), 22-45.
- Furner, J. M., & Brewer, E. A. (2016). Connecting the mathematics we teach to its history: Part I. *Dimensions in Mathematics*, 31(2), 26-32.
- Marinas, C. A., Furner, J. M., & Escuder, A. (2016). Mathematically motivating students with photography and GeoGebra while addressing math anxiety. *Scholars Journal of Research in Mathematics and Computer Science*, 1(1), 1-12.

- Furner, J. M., & Marinas, C. A. (2016). A review of the best pre-made interactive GeoGebra activities. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-eighth Annual Conference*, Atlanta, Georgia, March 12, 2016. (Vol. 28, pp. 1 of 13). [Published Conference Proceeding]
- Furner, J.M., & Grace, B. (2016). Teaching math with grace: Lessons from a master teacher. *Mathitudes*, 1(1)1, Pages 1 of 18.
- Furner, J. M., & Marinas, C. A. (2016). Mathematics anxiety in society: A real phenomena and a real solution. *Transformations*, 1(1), 24-36.
- Furner, J. M., & Marinas, C. A. (2015). Teaching math concepts through history using GeoGebra and photography. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-seventh Annual Conference*, Las Vegas, Nevada, March 14, 2015 (pp. 146-155). [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M., Marinas, C. A., & Escuder, A. (2014). Turning kids on to math using photography and GeoGebra to cover the common core standards. *Dimensions in Mathematics*, 34(1), 9-17.
- Furner, J. M., & Marinas, C. A. (2014). Addressing math anxiety in teaching mathematics using photography and GeoGebra. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-sixth Annual Conference*, San Antonio, Texas, March 22, 2014. (pp.134-143).[Published Conference Proceedings based on refereed full paper submission].
- Vásquez-Colina, M. D., Gonzalez-DeHass, A. R., & Furner, J. M. (2014). Achievement goals, motivation to learn, and mathematics anxiety among pre-service teachers, *Journal of Research in Education* 24(1), 38-52.
- Furner, J. M. & Marinas, C. A. (2013). Learning math concepts in your environment using photography and GeoGebra. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-fifth Annual Conference*, Boston, MA, March 23, 2013 (pp. 209-218). [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. Marinas, C. A. Escuder, A., & Herron, L. C. (2012). Exploring the real world of mathematics with GeoGebra, *Dimensions in Mathematics*, 32(1), 10-17.
- Furner, J. M. & Marinas, C. A., (2012). Connecting geometry, measurement, and algebra using geogebra for the elementary grades. Paper presented at *The International Conference on Technology in Collegiate Mathematics 24th Annual Conference*, Orlando, Florida, March 24, 2012 (pp. 63-72). [Published Conference Proceedings based on refereed full paper

submission].

- Furner, J.M., & Kenney, C. (2011). *Counting on Frank*: Using bibliotherapy in mathematics teaching to prevent de-geniusing. *Pythagoras*, 32(2), Art. #133, 7 pages.
<http://dx.doi.org/10.4102/pythagoras.v32i2.133>.
- Furner, J. M., & Gonzalez-DeHass, A. (2011). How do students' mastery and performance goals relate to math anxiety? *Eurasia Journal of Mathematics, Science & Technology Education*, 7(4), 227-242.
- Furner, J. M., Marinas, C. A., & Su, A. (2011). Math around us: A family math activity at a football game. *Dimensions in Mathematics*, 31(1), 22-29.
- Furner, J. M. & Marinas, C. A., (2011). Geoboards to GeoGebra: Moving from the concrete to the abstract in geometry. Paper presented at the *International Conference on Technology in Collegiate Mathematics 23rd Annual Conference*, Denver, Colorado, March 19, 2011(pp. 111-118). [Published Conference Proceedings based on refereed full paper submission].
- Escuder, A., & Furner, J. M. (2011). Impact of GeoGebra in math teacher's professional development. Paper presented at the *International Conference on Technology in Collegiate Mathematics 23rd Annual Conference*, Denver, Colorado, March 19, 2011 (pp. 76-84). [Published Conference Proceedings based on refereed full paper submission].
- Su, A., Marinas, C. A., & Furner, J. M. (2011). Number sense made simple using number patterns, *The International Journal for Technology in Mathematics Education*, 18(1), 39-50.
- Su, A., Marinas, C. A., & Furner, J. M. (2010). Investigating numeric relationships using an interactive tool: Covering number sense concepts for the middle grades, *Creative Education Journal*, 1(2), 121-127.
- Su, A., Marinas, C. A., & Furner, J. M. (2010). Connecting the numbers in the primary grades using an interactive tool, *Australian Primary Mathematics Classroom*, 15, 25-28.
- Su, A., Marinas, C. A., & Furner, J. M. (2010). Discover number theory in grades K-12 using the square tool, an interactive java tool. Paper presented at *The International Conference on Technology in Collegiate Mathematics 22nd Annual Conference*, Chicago, Illinois, March 12, 2010 (pp. 330-338.) [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2009). Mayan mathematics: Connecting history and culture in the classroom. *Teaching for Excellence and Equity in Mathematics*, 1(1), 28-33.
- Marinas, C. A., Su, A., & Furner, J. M. (2009). Using an interactive java tool to explore numeric

- relationships for all grade levels. Paper presented at *The International Conference on Technology in Collegiate Mathematics 21st Annual Conference*, New Orleans, Louisiana, March 14, 2009 (pp. 152-157). [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2009). Using literature to teach mathematics and address math anxiety. *Far East Journal of Mathematical Education*, 3(1), 1-7.
- Furner, J. M. (2008). Mayan mathematics: Connecting history and culture in the classroom. *Noticias de Todos*, 4(1), 4-7.
- Furner, J. M. (2008). Connecting students to their culture by exploring Mayan mathematics. *Essential Teacher*, 5(1), 26-28.
- Furner, J. M. & Kumar, D. D. (2007). The mathematics and science integration argument: A stand for teacher education. *Eurasia Journal of Mathematics, Science & Technology Education*, 3(3), pp. 185-189.
- Furner, J. M., & Marinas, C. A. (2007). Geometry sketching activities for young children. *Dimensions in Mathematics*, 27(1), pp. 34-40.
- Furner, J. M., & Marinas, C. A. (2007). Electronic math education portfolios in a mathematics methods course. Paper presented at *The International Conference on Technology in Collegiate Mathematics 19th Annual Conference*, Boston, Massachusetts, February 16, 2007 (pp. 131-135). [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M., & Marinas, C. A. (2007). Geometry sketching software for elementary children: Easy as 1, 2, 3. *Eurasia Journal of Mathematics, Science & Technology Education*, 3(1), pp. 83-91.
- Furner, J. M., DeRocha, A., Saenz, J. (2007). Preparing students mathematically in the Andean mountains. *The Rural Math Educator*, 5(3), Pages 1 of 8.
- Marinas, C. A., & Furner, J. M. (2006). Building a connection from paint to geometer's sketchpad. Paper presented at *The International Conference on Technology in Collegiate Mathematics 18th Annual Conference*, Orlando, Florida, March 18, 2006 (pp. 156-160). [Published Conference Proceedings based on refereed full paper submission].
- Yahya, N., & Furner, J. M. (2006). U.S. math problem solving: Considerations for teachers of English learners. *Sunshine State TESOL Journal*, 5(1), 27-34.
- Furner, J. M., Yahya, N., & Duffy, M. L. (2005). 20 ways to teach mathematics: Strategies to reach all students. *Intervention in School and Clinic*, 41(1), 16-23.
- Furner, J. M. (2005). *Using geometry sketching software: Insights from preservice and new*

- mathematics teachers*. Paper presented at *the International Conference on Technology in Mathematics Teaching*. Bristol, England, UK. July 28, 2005. Proceedings 2005, Volume 2, pp. 96-104. [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. (2005). Geometry Sketching Software: Its Elementary Dear Euclid. In P. Kommers & G. Richards (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2005* (pp. 3111-3116). Paper presented at the ED-MEDIA 2005—World Conference on Educational Multimedia, Hypermedia & Telecommunications. Montreal, Canada, June 30, 2005. Chesapeake, VA: AACE.
- Furner, J. M., & Robison, S. (2005). Using TIMSS to improve the undergraduate preparation of mathematics teachers. *Issues in the Undergraduate Mathematics Preparation of School Teachers: The Journal*, 2(2), Pages 1 of 10.
- Furner, J. M. (2004). Math anxiety at a glance: Building mathematically confident citizens for the new millennium. *Mathematics Teachers' Journal*, 54(2), 13-18.
- Furner, J. M. (2004). Implementing the national council of teachers of mathematics *Standards*: A slow process. *Pythagoras*, 59, 46-56.
- Furner, J. M., Goodman, B., & Meeks, S. (2004). Creating tessellations with pavement chalk: Implementing best practices in Mathematics. *The Australian Mathematics Teacher*, 60 (2), 25-28.
- Furner, J. M., & Ramirez, M. (2004). The BITT model for addressing math anxiety at a mathematics, science, and technology magnet school: A research-based program using multimedia. *Society for Information Technology & Teacher Education*, 15(1), 4423-4431. [Published Conference Proceedings].
- Furner, J. M. (2004). Using bibliotherapy to overcome math anxiety. *Academic Exchange Quarterly*, (8), 2, 209-213.
- Furner, J. M., & Daigle, D. (2004). Educational computer software/website effectiveness survey. *International Journal of Instructional Media*, 31 (1), 61-77.
- Furner, J. M., & Berman, B. T. (2004). Building math confidence for a high-tech world. *Academic Exchange Quarterly*, (8), 2, 214-220.
- Furner, J. M. (2004). Insights from a teacher/Teacher educator in using the internet and *Geometer's Sketchpad* in the teaching of geometry. *Society for Information Technology & Teacher Education*, 15(1), 4415-4422. [Published Conference Proceedings].
- Furner, J. M., & Berman, B. T. (2003). Math anxiety: Overcoming a major obstacle to the improvement of student math performance. *Journal of Research on Childhood*

Education, 79 (3), 170-174.

Furner, J. M., & Duffy, M. L. (2002). Equity for all students in the new millennium: Disabling math anxiety. *Intervention in School and Clinic*, 38(2), 67-74.

Bacallao, M. K., Lacy, C., Furner, J. M., & Frederick, T. W. (2002). PT3 technology-enhanced lesson plans for the elementary school. *13th Annual Conference of the Society for Information Technology and Teacher Education*, Nashville, Tennessee, March 20, 2002, pp. 934-935. [Published Conference Proceedings].

Furner, J. M., Cornett, P., & Smith, D. (2001). Reading, writing, in arithmetic: Using the 3 R's in math to ensure an anxiety free math classroom. *Dimensions in Mathematics*, 21(2), 16-21.

Furner, J. M., Doan-Holbein, M. F., & Scullion-Jackson, K. (2000). Taking an internet field trip: Promoting cultural and historical diversity through mayan mathematics. *TechTrends*, 44 (6), 18-22.

Furner, J. M. (2000). The effects of a math curriculum course on the beliefs of pre-service teachers regarding the national council of teachers of mathematics' standards. *Issues in the Undergraduate Mathematics Preparation of School Teachers: The Journal*, 2(1), 1 of 10.

Furner, J. M. (1999). What research tells the teacher about effective teaching and learning: Research revisited and hopefully not forgotten. *The Internet Source for Schools*, 2(3), 1 of 5.

Furner, J. M., & Meltzer, K. (1999). Addressing math anxiety. *Here's How in Principal Magazine*, (18)1, 1-4.

Furner, J. M., & Ramirez, M. (1999). Making connections: Using GIS to integrate mathematics and science. *TechTrends*, 43(4), 34-39.

Furner, J. M., and Yahya, N. (1998). When they don't all speak the same language: Strategies for teaching mathematics to aid ESOL students. *Dimensions in Mathematics*, 18(20), 24-29.

Furner, J. M. (1998). Curriculum innovation interview: The four period day. *Education*, 119(1), 31-36.

Furner, J. M. (1998). A square makes sense of pi. *Mathematics Teaching in the Middle School*, 3(5), 323 and 356.

Furner, J. M. (1998). Developing positive dispositions toward mathematics: A teacher's obligation. *Dimensions in Mathematics*, 18(1), 28-31.

Hebert, T. P., & Furner, J. M. (1997). Helping high ability students overcome math anxiety through

- bibliotherapy. *The Journal of Secondary Gifted Education*, 4(8), 164-178.
- Madej, M. M., Reardon, P. A., & Furner, J. M. (1997). The sunshine state and NCTM standards at a glance: Applying the standards through the use of manipulatives, technology, and real-world applications. *Dimensions in Mathematics*, 2(17), 30-34.
- Furner, J. M. (1996). Mathematics teachers' beliefs on using the national council of teachers of mathematics standards and the relationship these beliefs have on students' anxiety toward mathematics. *The Mid-South Educational Researcher*, Vol. 24, No. 3/4 [Published Conference Proceedings].
- Articles in Journals: Non-Refereed**
- Furner, J. M., & Berman, B. T. (2004). Confidence in their ability to do mathematics: The need to eradicate math anxiety so our future students can successfully compete in a high-tech globally competitive world. *Philosophy of Mathematics Education Journal*, 18 (1), Pages 1 of 33.
- Furner, J. M., & Berman, B. (2001). Females and mathematics: The need to build confidence leading to success with math for the New Millennium. *Principal's Electronic Desk*. [Online Journal at: http://nprc.educationworld.com/index.jhtml?content=../sections/trends/include.jhtml&article=02212001_article.jhtml].
- Furner, J. M. (2000). Math anxiety: Using children's literature to teach math (Using Children's Literature to Teach Math: A Means to Ensure an Anxiety Free Math Classroom). *International Education Daily*. [On-line international education journal at: <http://members.iteachnet.com/webzine/article.php?story=20001228192915265> posted on December 28, 2000.]
- Furner, J. M. (2000). Understanding math anxiety: What teachers and parents need to know (Fostering Mathematically Confident Kids for the New Millennium). *International Education Daily*. [On-line international education journal at: <http://members.iteachnet.com/webzine/article.php?story=20001211101839450> posted on December 10, 2000.]
- Furner, J. M. (2000). Math Anxiety: Spot it, cure it and prevent it. *South Florida Parenting*, August 2000 Edition, 36-38.

Educational Documents

- Furner, J. M. (1996). *Mathematics teachers' beliefs on using the National Council of Teachers of Mathematics Standards and the relationship these beliefs have on students' anxiety toward mathematics*. Paper presented at the Mid-South Educational Research Association's 1996 Annual Meeting, November 6, 1996, The University of Alabama, Tuscaloosa. (ERIC

Document Reproduction Service No. TM 026 376).

Furner, J. M. (1996). *Mathematics teachers' beliefs about using the National Council of Teachers of Mathematics Standards and the relationship of these beliefs to students' anxiety toward mathematics*. Unpublished doctoral dissertation. University of Alabama.

Furner, J. M. (1995). *Planning for interdisciplinary instruction: A literature review*. Tuscaloosa, Alabama. (ERIC Document Reproduction Service No. ED 385 515).

Articles Submitted to Refereed International/National Journals

Furner, J. M. & Duffy, M. L. (Submitted/revisions). Addressing math anxiety in a STEM world: Preventive, supportive, and corrective strategies for an inclusive classroom. *The Clearinghouse*

Books/Chapters in Progress for Refereed/Educational/Other Publishers

Furner, J. M. (In progress). *My name's not scott*. [Adolescent Literature].

Furner, J. M. (In progress). *Math confidence: The importance of mathematics in a STEM world*.

Furner, J. M. (In progress). *A light for others, An instrument of peace*.

Articles in Progress for Refereed International/National Journals

Furner, J. M., & Tapia, M. (In progress). Una mirada a la angustia matemática: Recomendaciones para lograr estudiantes confiados y matemáticamente preparados en el nuevo milenio. .

Presentations

International Presentations

Furner, J. M. (2021). Using photography inserted into GeoGebra to teach mathematics to learners in a meaningful way. Paper presented at *the International Conference on Technology in Collegiate Mathematics 33rd Annual Conference*, Virtual Reimagined/On Demand, March 12, 2021. Vol. 33, [Pages 1-14]. [Accepted Presentation and Published Conference Proceeding]

Furner, J. M., & Marinas, C. A. (2020). Teaching math with GeoGebra while developing a passion for photography. Paper presented at *the International Conference on Technology in Collegiate Mathematics 32nd Annual Conference*, Orlando, FL, March 13, 2020. Vol. 32, [In press]. [Accepted Presentation and Published Conference Proceeding]

- Furner, J. M. (2019). Fostering imagination and creativity with GeoGebra in mathematics teacher education. Paper presented at *the International Conference on Technology in Collegiate Mathematics 31st Annual Conference*, Phoenix, AZ., March 16, 2019. Vol. 31, [pp. 1 of 18, In press]. [Published Conference Proceeding]
- Furner, J. M. (2018). GeoGebra, photography, and picture books: A means to end math anxiety. Paper presented at *the International Conference on Technology in Collegiate Mathematics 30th Annual Conference*, Washington, D.C., March 17, 2018.
- Furner, J. M. (2018). Using GeoGebra and photography to help address math anxiety in our classrooms. *11th International Conference on e-Learning & Innovative Pedagogies*, St. John's University, Manhattan Campus, NY, NY, March 2-3, 2018.
- Marinas, C. A., & Furner, J. M. (2016). A review of the best pre-made interactive GeoGebra activities. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-eighth Annual Conference*, Atlanta, Georgia, March 12, 2016. [Published Conference Proceedings based on refereed full paper submission].
- Marinas, C. A., & Furner, J. M. (2015). Teaching math concepts through history using GeoGebra and photography. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-seventh Annual Conference*, Las Vegas, Nevada, March 14, 2015. [Published Conference Proceedings based on refereed full paper submission].
- Marinas, C. A., & Furner, J. M. (2014). Addressing math anxiety in teaching mathematics using photography and GeoGebra. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-sixth Annual Conference*, San Antonio, Texas, March 22, 2014. [Published Conference Proceedings based on refereed full paper submission].
- Marinas, C. A., & Furner, J. M. (2013). Learning math concepts in your environment using photography and GeoGebra. Paper presented at *the International Conference on Technology in Collegiate Mathematics Twenty-fifth Annual Conference*, Boston, MA, March 23, 2013. [Published Conference Proceedings based on refereed full paper submission].
- Marinas, C. A., & Furner, J. M. (2012). Connecting geometry, measurement, and algebra using geogebra for the elementary grades. Paper presented at *the International Conference on Technology in Collegiate Mathematics Annual Conference*, Orlando, Florida, March 24, 2012. [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2012). *Teaching mathematics with the common core standards, Grades K-3 and 4-9*. Inservice Workshop/Research Presentation in Spanish for the teachers at Colegio Hogar Nueva Granada, Bogota, Colombia, January 26, 2012.

- Marinas, C. A., & Furner, J. M. (2011). Geoboards to GeoGebra: Moving from the concrete to the abstract in geometry. Paper presented at the *International Conference on Technology in Collegiate Mathematics Annual Conference*, Denver, Colorado, March 19, 2011. [Published Conference Proceedings based on refereed full paper submission].
- Escuder, A., & Furner, J. M. (2011). Impact of GeoGebra in math teacher's professional development. Paper presented at the *International Conference on Technology in Collegiate Mathematics Annual Conference*, Denver, Colorado, March 19, 2011. [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2011). *Teaching mathematics using best practices and manipulatives: An emphasis on math standards, curriculum, and assessments*. Inservice Workshop/Research Presentation in Spanish for the teachers at Colegio Hogar Nueva Granada, Bogota, Colombia, January 28, 2011.
- Su, A., Marinas, C. A., & Furner, J. M. (2010). Discover number theory in grades K-12 using the square tool, an interactive java tool. Paper presented at the *International Conference on Technology in Collegiate Mathematics Annual Conference*, Chicago, Illinois, March 12, 2010. [Published Conference Proceedings based on refereed full paper submission].
- Marinas, C. A., Su, A., & Furner, J. M. (2009). Using an interactive java tool to explore numeric relationships for all grade levels. Paper presented at the *International Conference on Technology in Collegiate Mathematics Annual Conference*, New Orleans, Louisiana, March 14, 2009. [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2007). *Teaching mathematics using best practices: An emphasis on math standards and assessments*. Inservice Workshop/Research Presentation in Spanish for the teachers at Colegio Hogar Nueva Granada, Bogota, Colombia, November 20, 2007.
- Furner, J. M. (2007). *Teaching mathematics using best practices: An emphasis on numbers, algebra, and assessments*. Inservice Workshop/Research Presentation in Spanish for the teachers at Colegio Hogar Nueva Granada, Bogota, Colombia, May 20, 2007.
- Furner, J. M., & Marinas, C. A. (2007). Electronic math education portfolios in a mathematics methods course. Paper presented at the *International Conference on Technology in Collegiate Mathematics Annual Conference*, Boston, Massachusetts, February 16, 2007. [Published Conference Proceedings based on refereed full paper submission].
- Marinas, C. A., & Furner, J. M. (2006). Building a connection from *paint* to *geometer's sketchpad*. Paper presented at the *International Conference on Technology in Collegiate Mathematics Annual Conference*, Orlando, Florida, March 18, 2006. [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2005). *Using geometry sketching software: Insights from preservice and new*

- mathematics teachers*. Paper presented at the *International Conference on Technology in Mathematics Teaching*. Bristol, England, UK. July 28, 2005. Proceedings 2005, Volume 2, pp. 96-104 [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2005). Geometry sketching software: Its elementary dear Euclid. Paper presented at the *ED-MEDIA 2005—World Conference on Educational Multimedia, Hypermedia & Telecommunications*. Montreal, Canada, June 30, 2005. [Published Conference Proceedings based on refereed full paper submission].
- Furner, J. M. (2005). *Teaching mathematics using best practices: Preventing math anxiety*. Inservice Workshop/Research Presentation for the teachers at Colegio Bolivar, Cail, Colombia, May 20, 2005.
- Furner, J. M. (2004). *Teaching mathematics using best practices: An emphasis on number sense and operations*. Inservice Workshop/Research Presentation in Spanish for the teachers at Colegio Hogar Nueva Granada, Bogota, Colombia, April 30, 2004.
- Furner, J. M., & Ramirez, M. (2004). The BITT model for addressing math anxiety at a mathematics, science, and technology magnet school: A research based program using multimedia. *Society for Information Technology & Teacher Education Conference*. Paper presented at the SITE Conference. March 4, 2004 in Atlanta, Georgia.
- Furner, J. M. (2004). *Teaching mathematics using best practices: An emphasis on number sense concepts*. Inservice Workshop/Research Presentation in Spanish for the teachers at Colegio Hogar Nueva Granada, Bogota, Colombia, March 26, 2004.
- Furner, J. M. (2004). *Teaching mathematics using best practices: An emphasis on geometry, measurement, and algebra*. Inservice Workshop/Research Presentation in Spanish for the teachers at Colegio Hogar Nueva Granada, Bogota, Colombia, January 30, 2004.
- Furner, J. M. (2004). Insights from a teacher/Teacher educator in using the internet and *Geometer's Sketchpad* in the teaching of geometry. *Society for Information Technology & Teacher Education Conference*. Paper presented at the SITE Conference. March 4, 2004 in Atlanta, Georgia.
- Bacallao, M. K., Lacy, C., & Furner, J. M. (2002). PT3 technology-enhanced lesson plans for the elementary school. *Society for Information Technology & Teacher Education Conference*, Paper presented at the SITE Conference. April, 2002 in Nashville, Tennessee.
- Furner, J. M. (2000). *Opportunities for all students: Strategies for teaching mathematics to aid ESL students*. Workshop/Research Presentation at the *National Council of Teachers of Mathematics Conference*. Halifax, Nova Scotia, Canada, July 20-21, 2000.

Furner, J.M. (1999). *Building confidence in mathematics: The how to's of preventing number phobia*. Inservice Workshop/Research Presentation, Colegio Interamericano, Guatemala City, Guatemala, March 8, 1999

Furner, J. M. (1998). *Math anxiety at a glance: Tips for classroom teachers*. Presentation, Research and Materials provided for teachers. The American School, Barcelona, Spain. December 11, 1998.

Furner, J. M. (1998). Preparing our kids for their future and not our past: A hands-on look at the TI-explorer calculator and what research says about using calculators in the classroom. Research and activities presented at the *European Council of International Schools Educational Technology Conference* at Robert College, Istanbul, Turkey, April 25, 1998.

Furner, J. M. (1992). *Cooperative learning in mathematics*. Workshop presentation for inservice teachers at The American School in Mexico City, Mexico, February, 1992.

National Presentations

Gonzalez-DeHass, A. R., Furner, J. M., Vásquez-Colina, M. D., & Morris, J. D. (2018). Pre-service elementary teachers' achievement goals and their relationship to math anxiety. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 13th-17th, 2018, New York City, NY.

Furner, J. M. (2017). *Using GeoGebra, photography, and picture books to address math anxiety*. National Council of Teachers of Mathematics Regional Conference, Orlando, FL, October 20, 2017.

Gonzalez-DeHass, A., Furner, J. & Vasquez-Colina, M. (2016). *Pre-service teachers' achievement goals and their relationship to math anxiety*. Paper presented at the 2016 Annual Meeting of the American Psychological Association (APA), Denver, Colorado [Refereed based on abstract].

Gonzalez-DeHass, A., Vasquez-Colina, M., & Furner, J. M. (2015). *Students' achievement goals and their relationship to their math anxiety and other achievement behaviors for learning mathematics*. Paper presented at the annual meeting of the 38th Annual Eastern Educational Research Association (EERA), Sarasota, FL.[Refereed based on abstract].

Gonzalez-DeHass, A., Furner, J. & Vasquez-Colina, M. (2013). *Pre-service teachers' achievement goals and their math anxiety*. Paper presented at the annual meeting of the Eastern Educational Research Association (EERA), Sarasota, FL.[Refereed based on abstract].

Furner, J. M., Marinas, C. A. & Herron, L. (2011). *Bridging understanding in math using GeoGebra: Exploring quadrilaterals and measurement*. National Council of Teachers of

- Mathematics Regional Conference, Albuquerque, NM, November 4, 2011.
- Marinas, C. A., Escuder, A., & Furner, J. M. (2011). *What is GeoGebra, and how could I use it?* National Council of Teachers of Mathematics Regional Conference, Albuquerque, NM, November 3, 2011.
- Marinas, C. A., Furner, J. M., & Escuder, A. (2011). *The triangle world using GeoGebra*. National Council of Teachers of Mathematics Regional Conference, St. Louis, MO, October 28, 2011.
- Escuder, A., Herron, L., & Furner, J. M. (2011). *What is GeoGebra, and how could I use it?* National Council of Teachers of Mathematics Regional Conference, St. Louis, MO, October 28, 2011.
- Furner, J. M., Marinas, C. A. & Herron, L. (2011). *Bridging understanding in math using GeoGebra: Exploring quadrilaterals and measurement*. National Council of Teachers of Mathematics Regional Conference, St. Louis, MO, October 27, 2011.
- Furner, J. M. (2007) *Mathitudes: Research, activities, websites, and children's literature toward a mathematically confident society*. Research and activities presented at the National Council of Teachers of Mathematics Southern Regional Conference, Houston, Texas, November 30, 2007.
- Furner, J. M. (2001). *Children's literature, journal writing, and discussion: Key ingredients to an anxiety-free classroom*. Research and activities presented at the National Council of Teachers of Mathematics 79th Annual Conference, Orlando, Florida, April 4, 2001.
- Furner, J.M. (1999). *Mathematical power for all: Strategies for preventing and reducing math anxiety*. Workshop/Research Presentation at the National Council of Teachers of Mathematics Conference. Phoenix, Arizona. December 3, 1999.
- Furner, J. M., & Robison, S. (1999). *Mathematics portfolios: A valuable tool to showcase understanding*. Research and activities presented at the National Council of Teachers of Mathematics 77th Annual Conference, San Francisco, California, April 23, 1998.
- Furner, J. M. (1998). *Helping math-anxious students*. Research and activities presented at the National Council of Teachers of Mathematics Annual Conference, Washington, D. C., April 4, 1998.
- Furner, J. M. (1998). *Math anxiety and the NCTM standards: What every mathematics teacher needs to know*. Research and activities presented at the National Council of Teachers of Mathematics Southern Regional Conference, Tampa, Florida, March 6, 1998.
- Furner, J. M. (1997). *Helping the mathematics anxious student: What every teacher needs to know!* Research and activities presented at the National Council of Teachers of Mathematics Conference, Atlanta, Georgia, February 27, 1997.

- Furner, J. M. (1996). *Mathematics teachers' beliefs on using the National Council of Teachers of Mathematics Standards and the relationship these beliefs have on students' anxiety toward mathematics*. Paper presented at the Mid-South Educational Research Association's 1996 Annual Meeting, November 6, 1996, The University of Alabama, Tuscaloosa. (ERIC Document Reproduction Service No. TM 026 376).
- Furner, J. M. (1995). *Motivating students mathematically to activate knowledge*. Activities presented at the National Council of Teachers of Mathematics Regional Conference, Knoxville, Tennessee, October 6, 1995.
- Furner, J. M. (1995). *Starters and stumpers: Motivate your students mathematically*. Activities presented at the National Council of Teachers of Mathematics Regional Conference, Birmingham, Alabama, February 10, 1995.

State and Local Presentations

- Furner, J. M. (2021). Addressing mathitudes in the classroom. Online/Virtual/PowerPoint Presentation for Teachers at St. Catherine School, Sebring, Florida, January 27, 2021.
- Furner, J.M. (2020). Lowering math anxiety using Geogebra and photography to help build confidence in a stem world. Presentation at the Florida Distance Learning Association (FDLA) Conference 2020, Wednesday Sept. 30, 2020 at 10:30am. Virtual Conference Presentation.
- Furner, J. M. (2019). *Pathways to careers in education*. Panelist at the Spring Forum Presented by the Future Educators of America, Hosted by Palm Beach State College, Lake Worth, FL, February 25, 2019.
- Furner, J. M. (2017). *GeoGebra and photography: A possible solution to address math anxiety*. Paper presentation at the Florida Association of Teacher Educators (FATE) Annual Conference at Saint Leo University, St. Leo FL, January 28, 2017.
- Furner, J. M. (2016). *Preparing new teachers for tomorrow's classrooms*. Panelist at the Forum Presented by the Future Educators of America, Hosted by Palm Beach State College, Lake Worth, FL, November 15, 2016.
- Furner, J. M. (2015). *Preparing new teachers for tomorrow's classrooms*. Panelist at the Forum Presented by the Future Educators of America, Hosted by Palm Beach State College, Lake Worth, FL, November 3, 2015.
- Furner, J. M., & Marinas, C. A. (2015). *Teaching mathematics and social studies using photographs inserted into GeoGebra*. Research and resources presented at the 63rd Annual Florida Council of Teachers of Mathematics Annual Fall Conference. Orlando, Florida, October 16, 2015. [Refereed based on abstract submission].

- Vásquez-Colina, M., Furner, J. M., & Gonzalez-DeHass, A. (2014). Elementary School Pre-service Teachers' Achievement Behaviors and their Relationship to their Math Anxiety for Learning Mathematics. 59th Annual Conference of the Florida Educational Research Association. Cocoa Bay, FL, November 21, 2014.
- Higgins, C., & Furner, J. M. (2014). *Leadership and learning beyond the mathematics classroom*. 59th Annual Conference of the Florida Educational Research Association. Cocoa Bay, FL, November 21, 2014.
- Furner, J. M. (2014). Addressing mathitudes in the classroom. Workshop for Teachers at Cardinal Newman High School. West Palm Beach, FL, October 20, 2014.
- Furner, J. M., & Marinas, C. A. (2013). *Turning kids on to math using photography and GeoGebra to cover the common core math standards*. Research and resources presented at the Florida Council of Teachers of Mathematics Annual Fall Conference. Orlando, Florida, October 18, 2013. [Refereed based on abstract submission].
- Furner, J. M., & Marinas, C. A. (2012). *Using GeoGebra to connect geometry, measurement, and algebra for elementary learners*. Research and resources presented at the Florida Council of Teachers of Mathematics Annual Fall Conference. Orlando, Florida, October 20, 2012. [Refereed based on abstract submission].
- Furner, J. M., & Marinas, C. A. (2010). *From geoboards to GeoGebra: Activities to bridge the concrete to the abstract in geometry*. Research and resources presented at the Florida Council of Teachers of Mathematics Annual Fall Conference. Orlando, Florida, October 1, 2010. [Refereed based on abstract submission].
- Furner, J. M. (2009). *Breaking the math anxiety cycle in a multicultural world: Tips and research*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, West Palm Beach, Florida, October 2, 2009.
- Su, A., Marinas, C. A., Furner, J. M. (2009). *Using an interactive java tool to explore numeric relationships for all grade levels*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, West Palm Beach, Florida, October 1, 2009.
- Furner, J. M., & Worrell, N. (2008). *Activity-Based lessons-focusing on best practices in mathematics: Using children's literature and hands-on activities*. Presentation at Galaxy Elementary School in Boynton Beach, Florida, January 24, 2008.
- Worrell, N. & Furner, J. M. (2007). *Toward a mathematically confident society: A look into Mathitudes*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, Orlando, Florida, October 12, 2006.
- Furner, J. M. (2007). *Creating portfolios and e-portfolios: Professional portfolios for teachers*.

Presented at the 6th Annual Florida Future Educators of America Conference and Teacher Education Day, Florida Atlantic University, Boca Raton, Florida, April 4, 2008.

Furner, J. M. (2007). *A look at Mathitudes: Confidence with mathematics is important*. A presentation and research presented at Coral Glades High School for Mrs. Margie Fennell's High School Math Class, Coral Springs, Florida, October 11, 2007.

Furner, J. M. (2007). *Surveying Mathitudes in your classroom: In an effort to build math confidence*. Presentation at the Palm Beach County Council of Teachers of Mathematics 2007 Fall Mathematics Conference. August 17, 2007.

Furner, J. M. (2006). *Current approaches to teaching mathematics*. A presentation for the FAU and Local Community "Discover FAU---Jupiter" series sponsored by Florida Atlantic University MacArthur Campus, Jupiter, Florida, November 8, 2006.

Furner, J. M. (2006). *Toward a mathematically confident society: A look into Mathitudes*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, Orlando, Florida, October 12, 2006.

Furner, J. M. (2006). *Teaching overseas: Opportunities to teach in a global world*. Presented at the 4th Annual Florida Future Educators of America Conference and Teacher Education Day, Florida Atlantic University, Boca Raton, Florida, March 31, 2006.

Furner, J. M., & Marinas, C. A. (2005). *Geometry sketching activities for young children: It's elementary dear Euclid*. Research and resources presented at the Florida Council of Teachers of Mathematics Annual Fall Conference. Palm Beach Gardens, Florida, October 21, 2005. [Refereed based on abstract submission].

Furner, J. M., De Rocha, A., & Saenz, J. (2004). *Hand made low cost math manipulatives: Giving a chance to children and teachers in Bogotá*. Research and resources presented at the Florida Council of Teachers of Mathematics Annual Fall Conference. Miami, Florida, October 29, 2004. [Refereed based on abstract submission, no publication as of yet].

Furner, J. M. (2004). *Developing mathematical power for all*. A presentation for the FAU and Local Community "Coffee with the Professor" series sponsored by Nutrition S'Mart, Florida Atlantic University MacArthur Campus, Jupiter, Florida, November 5, 2004.

Furner, J. M. (2003). *Using math portfolios, journals, and geometer's sketchpad/The internet in the teaching of high school geometry*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, Orlando, Florida, October 17, 2003.

Furner, J. M., & Grace, B. (2001). *Math tricks and number games to turn kids on to mathematics*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, Orlando, Florida, October 16, 2001.

- Furner, J. M., Smith, D. (2001). *Communicating mathematically through children's literature: Toward fearless math*. Research and activities presented at the Annual Project MIND (Math is Not Difficult) Conference. West Palm Beach, Florida, May 15, 2001.
- Furner, J. M., Cornett, P., Smith, D. (2000). *Reading, writing, in arithmetic: Using the 3 r's in math to ensure an anxiety free math classroom*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, Sarasota, Florida, October 13, 2000.
- Furner, J. M. (2000). *Mathematical power for all: Implementing "Best practices."*
A presentation done for the South Florida Center for Educational Leaders at FAU, Leadership for Learning Program for the Palm Beach County School Principals at the Crown Plaza Hotel, West Palm Beach, Florida. June 1, 2000.
- Furner, J. M., & Cornett, P. (1999). *Planning your own family math night: A checklist for success*. Presentation at the Florida Council of Teachers of Mathematics Annual Fall Conference, Miami, Florida, October 15, 1999.
- Furner, J. M., & Grace, B. (1999). *Overcoming math anxiety with activities: Helping your class relax*. Inservice Workshop for Indian Pines Community Elementary School, Lake Worth, Florida, February 10, 1998.
- Furner, J.M. (1999). *The how to's of planning your own family night in your school*. Presentation at the Gateway to Literacy through Cooperative Learning Conference at Indian Pines Community Elementary School, Lake Worth, FL in Conjunction with the G.A.T.E. Project of Florida Atlantic University. March 26, 1999.
- Furner, J. M. (1998). *Cooperative problem-solving: Building confidence, social skills, and solving problems together*. Inservice Workshop for Indian Pines Community Elementary School, Lake Worth, Florida, November 17, 1998
- Furner, J. M., and Yahya, N. (1998). *When they don't all speak the same language: ESOL strategies for teaching mathematics*. A paper and workshop presented at the Florida Council of Teachers of Mathematics Annual Conference, Orlando, Florida, October 16, 1998.
- Furner, J. M. (1998). *Cooperative problem-solving, manipulatives, journal writing, and rethinking the math curriculum*. Inservice workshop for faculty at Indian Pines Community Elementary School, Lake Worth, Florida, April 29, 1998.
- Furner, J. M., & Berman, B. (1997). *Math and writing: Kindred spirits*. A paper and workshop presented at the Florida Council of Teachers of Mathematics Annual Conference, Ft. Lauderdale, Florida, October 17, 1997.

- Furner, J. M. (1997). *Helping the math anxious student catch the spirit*. A paper and workshop presented at the Florida Council of Teachers of Mathematics Annual Conference, Ft. Lauderdale, Florida, October 17, 1997.
- Furner, J. M. (1997). *Math sunshine state standards: A problem solving approach to teaching math*. A workshop provided for educators at the Teacher Net-Day Sponsored by the Genesis Academy for Teacher Excellence Project of Florida Atlantic University. March 27, 1997.
- Furner, J. M., & Ramirez, M. (1997). *Planning for interdisciplinary instruction: Making connections for the middle school student*. Paper presented and workshop given to the teachers at Roosevelt Community Middle School Magnet of Mathematics, Science, and Technology on March 19, 1997 as part of school-wide inservice training.
- Furner, J. M. (1995). *Measuring things in words: Ten writing activities for the mathematics teacher*. Paper presented at the Alabama Council of Teachers of Mathematics State Conference, Montgomery, Alabama, October 21, 1995.
- Furner, J. M., & Sunal, D. (1995). *Teaching mathematics and science Not mathematics or science*. Presentation at the NASA Teacher Enrichment Program Mid-Year Workshop at the Marshall Space Flight Center, Huntsville, Alabama, March 18, 1995.

Grants/External Funding

- PI on Technology Fee Grant from FAU for approx. \$11,221 (Announced May 2, 2013) for graphing calculators and training for our students and teachers as part of the FAU Tech Fee Committee, I wrote this grant with a Doc. Student here in Math Ed. Brian, McMahon, the Grant is entitled, *Infusing of and the Evaluation of Graphing Technologies for Improving STEM Areas*. Funded, \$11,221.
- Co-PI on DOE Math Grant with Math Dept at FAU, PI-Roger Goldwyn, entitled, *Collaborative Problem Solving Impact: Students' Learning to Co-Think Algebra/Geometry*, originally submitting in June 2011, unfunded.
- Co-PI on Phase II NSF Grant with Math Dept. at FAU for Middle School Teacher Prep and Tech with Geogebra, PI-H. O. Peitgen, titled, *Standards Mapped Graduate Education and Mentoring Phase II*, submitted August 2010. Unfunded.
- Co-PI for Grant with FAU and Barry University with Dr. Chraibi and Dr. Hardman entitled, *Development of pre-service teacher coursework and outreach for introducing engineering into K – 12 schools*, June 2009, Unfunded.
- Co-PI on a *Preparing Tomorrow's Teachers for Using Technology* (PT3 US DOE Grant) with PI-Dr. Mary Kay Bacallao from St Thomas University in Miami and Florida Gulf Coast

University in Ft. Myers, FL 2000-2002. Funded, \$1.2 Million.

Principal-Investigator who wrote a Grant with Co-PI's, Dr. Lindgren and Dr. Weber, entitled, *Internet Fieldtrips in Math and Science*, submitted to the Technological Research & Development Authority-- Dec. 1999. Unfunded

Creative Works and Exhibitions for Connecting Research to Photography

A Finalist for my photograph *Hatchlings Emerging from the Sand* in FAU's **2019 Art of Science Photo Contest**

A Finalist for my photography: *On Golden Ocean, Pelicans in Flight Over the Atlantic*, and *An Intersection of Turtle Tracks-Big and Small* in FAU's **2020 Art of Science Photo Contest**

Areas in Which Research is Done/Research Interests

How students learn mathematics

Mathematics Anxiety

Interdisciplinary Teaching

Improving mathematics instruction

Effective school practices

Children's Literature and Bibliotherapy in the Teaching of Mathematics

Using Technology and the Internet in Mathematics Instruction

Constructivist teaching methodologies in mathematics

Real life/problem-solving approach to teaching math

Honors and/or Awards

Member of the National Council of Teachers of Mathematics

Member of the Florida Council of Teachers of Mathematics

Member of the Florida Association of Mathematics Teacher Educators

Member of TODOS: Mathematics for All Organization

2017 FAU's Excellence in eLearning Leadership Award Recipient

Nominated for Florida Association Mathematics Teacher Educator of the Year Award, 2010-2011 and 2011-2012 and Awarded the FAMTE Math Teach of the year in 2011

Nominated and finalist for Teacher of the Year for the University, Florida Atlantic University, FAU, 2009

Nominated and received Undergraduate Excellence in Teaching Award for 2016 at FAU COE
Received Teacher of the Year for the College of Education for FAU, 2009

Nominated and received Undergraduate Excellence in Teaching Award for 2011 at FAU COE

Nominated and received the Undergraduate Excellence in Teaching Award for 2007 at FAU

Nominated for the Distinguished Teacher of the Year for FAU, 2007

Nominated for Exceptional Faculty Teaching Award MacArthur Campus, FAU, 2005-2011

Received Exceptional Faculty Teaching Award Northern Campus, FAU, 2011

Full year Sabbatical for Research, Florida Atlantic University 2003-2004 and 2011-2012

Nominated for Talon Leadership Award at FAU, 2000

Nominated and received the Excellence in Teaching Award for 1999-2000 at FAU
 Adolph B. Crew Outstanding Teacher Award-The University of Alabama, 1996
 Kappa Delta Pi, International Honor Society
 Vice President's List
 Most Outstanding Graduate Student-Secondary Mathematics Education, 1995
 Assistantship/Scholarship at The University of Alabama, 1993-1996
 Nominated for Graduate Student Teaching Excellence Award, 1995

Editor/Editorial Boards/Referee/Blind Peer-Reviewer

- Editor and Chief for *Mathitudes Online*, 2004- Current
- Ask to Review Grant applications from the Israel Science Foundation, 2017
- Editorial Board for *Issues in Undergraduate Mathematics Preparation of School Teachers: The Journal*, 2004-current
- Editorial Board invited for expertise in mathematics education for *Far East Journal of Mathematical Education*, 2013-2016
- Academic Editor invited based on my expertise for *British Journal of Education, Society & Behavioural Science*, 2012-current
- Referee for *National Council of Teachers of Mathematics Journals*, 1997- current
- Reviewer invited based on expertise in Math Anxiety Research for *Educational Psychology*
- Reviewer for *Journal of Urban Mathematics Education*
- Reviewer for *TC Record*
- Reviewer for *Pythagoras* invited by the editor
- Reviewer invited based on my expertise for *Journal of Applied Research in Education*
- Reviewer invited based on my expertise for *International Electronic Journal of Mathematics Education (IEJME)*
- Reviewer invited based on my expertise for *Journal of Research in Education (JRE)*
- Reviewer invited based on my expertise on manipulatives for the journal *Child Development*
- Reviewer for *Teaching for Excellence and Equity in Mathematics*
- Reviewer invited based on expertise in math education for *International Journal of Early Childhood*
- Reviewer for the *PRISM Journal*, of Negros Oriental State University, a state-recognized journal per Philippine Commission on Higher Education
- Reviewer invited based on my expertise for the Journal of Mathematics Teacher Education
- Reviewer invited to review a paper on using math manipulatives for the Journal *Child Development*.
- Reviewer invited to review for the *International Journal of STEM Education* related to my expertise in integrating mathematics and science.
- Reviewer invited to review for the *Learning and Individual Differences Journal* related to my expertise in education and achievement goals.
- Reviewer invited to review Vera Sarina's book, "The Living Tree of Mathematics: Mathematics of Middle School Curriculum through the Lens of History," 2020-2021 NCTM Publication.

III. SERVICE

International/National Service

2004-Currently	Editor and Chief , Mathitudes Online Journal
2004-2008	Reader/Referee , TC Record Journal
2004	Professor , Mathematics Methods Course through Portland State University for teachers at Colegio Nueva Granada, Bogota, Colombia
2003-2012	Volunteer/Mathematics Consultant , Hogar Nueva Granada, Colombia
2002-Currently	Academic Advisory Board , Middle School Mathematics, The Regency Group Publishing Division
2000-Currently	Editorial Board , For the <i>Undergraduate Mathematics Preparation of School Teachers: The Journal</i>
2003-2011	Workshop for Teachers , Colegio Nueva Granada and Hogar, series of workshops and consulting on math programs, Bogota, Colombia
2002-2004	Workshop for Teachers , The New England School, offered workshops on math program improvement, Bogota, Colombia
2001	Workshop For Teachers , The American School of London offered workshop on Mathematics Anxiety for Teachers, London, England
1999-2000	Editorial Board for 1999-2000 for <i>Internet School Source</i> -----Refereed Journal
2005	Workshop For Teachers , Colegio Bolivar, two workshops on math practices for teachers K-12, Cali, Colombia
1999	Workshop For Teachers , Colegio Inter-Americano workshop on Mathematics Anxiety for Teachers, Guatemala City, Guatemala
1998	Workshop For Teachers , The American School of Barcelona workshop on Mathematics Anxiety for Teachers, Barcelona, Spain
1997-Currently	Reader/Referee , National Council of Teachers of Mathematics Publications

State of Florida Service

2012-2013	Florida Department of Education, Text Book Adoption Service Served to review K-5 mathematics textbooks for the State of Florida
2010-2012	Public University Member at Large for The Florida Association of Mathematics Teacher Educators (FAMTE) 2010-2012.
2010	Co-Chair for Casio Calculator/FAU's COE South Florida Math Technology Conference, Boca High School, Boca Raton, Oct. 16,
2010	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Orlando, Florida
2009	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, West Palm Beach, Florida
2007	Co-Chair for Texas Instruments FAU's COE South Florida Math and Technology Conference, FAU, Boca Raton, August, 2007
2007	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Orlando, Florida
2006	Annual Florida Future Educators of America Conference and

2006	Teacher Education Day , Presenter, Boca Raton, Florida Sunshine State TESOL Journal Editorial Board
2006	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Orlando, Florida
2005	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Palm Beach Gardens, Florida
2004	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Miami, Florida
2003	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Orlando, Florida
2002	Florida Council of Teachers of Mathematics Conference FAU Representative, Orlando, Florida
2001	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Orlando, Florida
2000	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Sarasota, Florida
1999	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Miami, Florida
1998	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Orlando, Florida
1997	Florida Council of Teachers of Mathematics Conference Presentation and FAU Representative, Ft. Lauderdale, Florida
1996	Florida Council of Teachers of Mathematics Conference FAU Representative, Daytona, Florida

Florida Atlantic University Service

2009-2013	FAU AIDS Committee Member and COE Rep.
2009-2011	FAU Faculty Senate COE/Northern Campus Senator
2007-2008	FAU Jupiter Campus Environment Committee
2005-2020	STECC-Secondary Teacher Education Curriculum Committee
2006-2007	Discover FAU Jupiter Series , FAU community awareness
2004	Coffee with the Professor Series , presented to FAU and local community
1999-2001	University Faculty Council , College of Education Rep. and Committee on
2014	Committee member
1998-2002	Book Fair Organizer/Book Donations for the Library , Jupiter Campus
1998-2019	University Library Committee , member for the University Library
2000	North Campus Search Comm. , For Acad. Advisor Position
1997-1999	Committee member for NPB Travel , Funds Committee

College of Education, Florida Atlantic University Service

2020	COE - 3MT® Preliminary Round Faculty Judge
2013-2014	COE Rep for Teaching and Learning for Tenure and Promotion
2013-2014	COE International Committee
2004-2013	COE Graduation Marshall , both Graduate and Undergraduate
2005-2006	COE Faculty Assembly Secretary
2004-2005	COE Development Officers Search Committee
2004-2005	Associate Deans Search Committee

2001-2002	COE Technology Needs Committee , for tech in the COE, TE Rep.
2001	Chair, Search Committee , for C&I Position at the Treasure Coast Campus
2000	Assistant to Assoc. Dean , Organized vote for Rep. for new Dean
2000-2002	COE Faculty Advisory Comm. and UFC Rep , Rep. for Teacher Education
1997-2001	Liaison for PDS , Indian Pines Elementary Community School, FL
1999-2000	Evaluation of Admin Committee
1997	Liaison for PDS , Garden City Technology Magnet School, Ft. Pierce, FL
1996-1999	Clinical Ed. Training and Student Intern Supervision

Teaching and Learning Departmental Service, Florida Atlantic University

2015-2016	Jupiter Campus Leadership Team Leader , DTL, Fall 2015
2008-2009	Math Content Team Leader , Department of T&L
2007-2008	Assisted with the Dept. Diversity Committee , Department of T&L
2006-2007	Graduate programs Committee , Teacher Education Department
2005-2006	Search Committee Member for TESOL Position
2004-2005	NCATE Knowledge, Skills, and Dispositions Committee
1998-2002	Liaison for PDS , Indian Pines Elementary Community School, FL
1998-2001	Committee for Graduate Programs
1999-2001	Committee for Lesson Planning Format
1998	Search Committee , Science Ed. Position on Northern Campuses
1997	Liaison for PDS , Garden City Technology Magnet School, Ft. Pierce, FL
1996-1998 and 2016-2017	Committee Chair for TE Goals/Mission Statement

Local (Community) Service

2017-2019	Member of the Community Affairs Advisory Board , Town of South Palm Beach
2019	Member of the Architectural Review Board , Town of South Palm Beach
2006-2010	Mathematics and Science Fair Judge , Indian Pines Elementary School
2004-2011	Professional Development Volunteer Work , Indian Pines and Highland Elementary Schools
2003-Currently	Volunteer/Mathematics Consultant , Hogar Nueva Granada, Colombia
1997-Currently	Volunteer/Service , Division of Senior Services, Palm Beach County, FL
2000-2012	Adopt-A-Friend , Sacred Heart Church, Lake Worth, FL
2000-2002	Lake Worth Redevelopment , City of Lake Worth, FL
2012-2014	Board of Directors for The Tropical Ridge Neighborhood Association , City of Lake Worth, FL
2000-2002	Adhoc Code Enforcement Committee , City of Lake Worth, FL
2000	Spelling Bee Judge , Indian Pines Community Elementary School
1998-2008	Science Fair Judge , Indian Pines Elementary Community School, FL
1997	Science/Math Fair Judge , St. Lucie County Schools, St. Lucie, FL

Joseph Michael Furner



