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|  | J. Michael HallAssociate Professor of Mathematics and Director of Mathematics Education(870)972-3090mhall@astate.edu |  |

### Current Position

Position Title: Associate Professor of Mathematics Professor

Current Academic Rank: Associate Professor

Rank Since: Fall 2007

### Degrees

Ph.D. Educational Leadership: The University of Mississippi 2002

M.S. Mathematics: The University of Mississippi 1995

B.A. Mathematics: University of Mississippi 1992

### Scholarly Contributions and Creative Productions

Books and Chapters

Hall, J. (2012). Explorations in Geometry. Linus Publications.

Hall, J. (Expected 2014). Mathematics and the Liberal Arts. Charleston, SC: Hawkes Learning Systems.

Hall, J., et al. (2011) *Altitude to the Hypotenuse*. Texas Instruments. *Geometry nSpired Activity Package*-Available at

<http://education.ti.com/calculators/downloads/US/Activities/Detail?id=13142&ref=%2fcalculators%2fdownloads%2fUS%2fActivities%2fSearch%2fSubject%3fd%3d1007%26size%3d15%26page%3d4>

Hall, J., et al (2011). *Domain and Range*. Texas Instruments.

*Algebra II nSpired Activity Package-*Available at <http://education.ti.com/calculators/downloads/US/Activities/Detail?id=16811&ref=%2fcalculators%2fdownloads%2fUS%2fActivities%2fSearch%2fSubject%3fd%3d1007%26size%3d15%26page%3d6>

Hall, J., et al. (2011). *Application of Function Composition*. Texas Instruments. *Algebra II nSpired Activity Package*

Available at <http://education.ti.com/calculators/timathnspired/US/Activities/Detail?sa=1010&t=1163&id=16007>

Hall, J., et al. (2011) *Extraneous Solutions*. Texas Instruments. *Algebra II nSpired Activity Package.* Available at <http://education.ti.com/calculators/downloads/US/Activities/Detail?ID=16042>

Hall, J., et al. (2011). *The Birthday Problem*. Texas Instruments. *Algebra II nSpired Activity Package.* Available at <http://education.ti.com/calculators/timathnspired/US/Activities/Detail?sa=1010&t=9124&id=16064>

Hall, J., et al. (2011). *Pendulum Period and Length*. Texas Instruments. *Algebra II nSpired Activity Package*. Available at <http://education.ti.com/calculators/downloads/US/Activities/Detail?ID=13641>

Hall, J. M. (2005). *Cooperative learning activities manual with manipulatives and technology, 3rd ed.* Boston. Addison-Wesley.

Grants

National Science Foundation, Noyce Scholarship Program, $899,988

*Creating STEM Teachers for Arkansas’ Future*

(NSF #: 0934909) 2009-Present. Co-PI: Dr. Mike Hall,

PI: Dr. Anne Grippo

Arkansas Department of Education, No Child Left Behind, Title II, $385,000

Part B, *Revitalizing Algebra and Geometry*. 2007-2010

PI: Dr. Mike Hall

Arkansas Department of Higher Education, No Child Left Behind, $112,000

Title II, Part A, *Teaching Algebra for 21st Century Learning*.

2011-2012. PI: Dr. Mike Hall

Arkansas Department of Education, No Child Left Behind, Title II, $360,000

Part B, *Northeast Arkansas Educational Cooperative Mathematics*

*Institute*. 2007-2010. Co-PI: Dr. Mike Hall; PI: Angelia Carlton

Arkansas Department of Education, Enhancing Education $1,150,000

Through Technology Grant, *Northeast Arkansas Educational*

*Cooperative EETT*. 2008-2010. Project Director: Dr. Mike Hall

Arkansas Department of Education, No Child Left Behind $235,000

Grant, *NEA Coop Math/BioScience Grant.* 2008-2011.

PI: Dr. Mike Hall

National Science Foundation, GK-12 Initiative, *GK12:*  $2,500,000

*Environmental Sciences and Molecular Biosciences in*

*the Natural State*. 2008-2013. Co-PI: Dr. Mike Hall;

PI: Dr. Jennifer Bouldin

Arkansas Department of Higher Education, No Child $88,000

Left Behind, Title II, Part A, *Data Analysis for Teachers in*

*Arkansas*. 2007-2008. PI: Dr. Mike Hall

Arkansas Department of Education, No Child Left $114,000

Behind, Title II, Part B, *Revitalizing Algebra and Geometry*.

2007-2010. PI: Dr. Mike Hall

Arkansas Department of Education, No Child Left Behind, $112,000

Title II, Part B, *Northeast Arkansas Educational Cooperative*

*Mathematics Institute*. 2007-2010. PI: Dr. Mike Hall

Arkansas Department of Education, Enhancing Education $98,000

Through Technology Grant, *Northeast Arkansas Educational*

*Cooperative EETT*.

Arkansas Department of Higher Education, No Child Left $65,000

Behind, Title II, Part A, *The Geometry, Art and Algebra Project*. 2008

Arkansas Department of Higher Education, No Child Left $34,000

Behind, Title II, Part A, *Northeast Arkansas Geometry*

*Project*. 2005-2006

Arkansas State University, Office of Research, Faculty $3000

Research Award. 2005

Arkansas Department of Education, No Child Left Behind, $350,000

Title II, Part B *Northeast Arkansas Middle School Mathematics*

*Institute*. 2005-2008. PI: Dr. Mike Hall

Arkansas Department of Education, No Child Left Behind, $300,000

Title II, Part B *JPS-ASU-J “MathPAC Triangle*. 2004-2007

Journal Publications

Hall, J. (2009). *Implementing a Computer-Assisted Learning Environment into College Algebra*. Conference on Information Technology Vol. 25. <http://www.league.org/2/conferences/cit/2009/files/2009_CIT_Conference_Program.pdf>.

Hall, J. (2012). Using Technology as an Assessment Tool in Algebra.

*International Conference for Technology in College Mathematics 8*.

Hall, J. (2008). An Analysis of Revitalizing Algebra and Geometry: A professional development institute for secondary mathematics teachers. *Hawaii International Conference on Education, 14*(1).

Hall, J. (2007). The Marriage of Art and Geometry. Hawaii International Conference on Education, 13(1),.

Hall, J. (2008). Reevaluating Surface Area and Volume. *Journal of the Arkansas Council of Teachers of Mathematics, 4*(3), 3.

Hall, J. (2008). Tennis Ball Math. *Journal of the Arkansas Council of Teachers of Mathematics, 5*(3), 5.

Hall, J. , Leslie, N. J. (2008). An Analysis of Revitalizing Algebra and Geometry: A professional development institute for secondary mathematics teachers. *Hawaii International Conference on Education*(2008), 14. <http://www.hiceducation.org/EDU2008.pdf>

Hall, J. (January 2007). *The marriage of art and geometry.* Proceedings of the Hawaii International Conference on Mathematics, Statistics and Related Fields. Honolulu, HI. http://www.hieducation.org/EDU2007.pdf

Hall, J. M. February 2007. *Implementation of a computer-assisted learning environment in algebra*. Proceedings of the International Conference for Technology in Collegiate Mathematics. Boston, MA.

Hall, J. M. (2006). Technology, secondary mathematics teachers, and test scores: An investigation into the mathematics self-efficacy of secondary mathematics teachers*. Arkansas Council of Teachers of Mathematics Journal, 4*(2).

Hall, J. M. & Ponton, M. K. (2005). Mathematics self-efficacy of college freshman. *Journal of Developmental Education 28*(3), 26-32.

Ponton, M. K., Derrick, M. G., Carr, P. B., & Hall, J. M. (2005). The relationship between self-efficacy and autonomous learning: The development of new instrumentation*.* *International Journal of Self-Directed Learning, 2*(1), 50-61*..*

Ponton, M. K., Derrick, M. G., Carr, P. B., & Hall, J. M. (2004, February). *The relationship between self-efficacy and autonomous learning.* 18th International Self-Directed Learning Symposium, Cocoa Beach, FL.

Ponton, M .K. & Hall, J. M. (2003). A proposed relationship between postsecondary education and personal initiative for adult learners. *Current Issues in Education.*

Hall, J. M., & Ponton, M. K. (2002, February 28). *An analysis of mathematics self-efficacy of freshman mathematics students.* Paper presented at the 2002 Meeting of the Louisiana/Mississippi Section of the Mathematics Association of America.

Presentations

Hall, J. (2012). Environmental Science Activities for Middle Grades Classrooms. Arkansas Curriculum Conference.

Kennon, J.T., Grippo, A., Hall, J., Freeman-Nelson, K., Earhart, A., & Collins, C. (2011). A Fun Real-World Experiment Testing Different Sunscreens. Arkansas Curriculum Conference.

Bouldin, J., Grippo, A., Kennon, J.T., Miller, C.A., Risch, T., & Hall, J. (2011). Arkansas State University graduate student enhance communication skills and science education in the Arkansas Delta. NSF GK12 Annual Meeting.

Grippo, A., Kennon, J.T., Hall, J., Engelken, R., Yanowitz, K., & Bouldin, J. (2011). Creating STEM Teachers for Arkansas' Future by Designing an Environmental Science Outreach Activity. Mid-South SETAC Regional Meeting.

Kennon, J.T., Grippo, A., Hall, J., Stewart, J., Prince, L., Haagenson, K., Skelton, C., Kennon, M.E., Holton, D., & Vaughan, G. (2010). A Fun Environmental Science Experiment Using Water Fleas. Arkansas Curriculum Conference 2010.

Grippo, A., Kennon, J.T., Hall, J., Engelken, R., Yanowitz, K., Trautwein, J., & Bouldin, J. (2010). C-STAF: Creating STEM Teachers for Arkansas' Future. Noyce National Conference.

Kennon, J.T., Miller, C., Hall, J., Bouldin, J., Lisko, K., & White, A. (2010). Environmental Science, Inquiry-based Activities for The Classroom. Arkansas Curriculum Conference 2010.

Kennon, J.T., Miller, C., Grippo, A., Hall, J., McKie, A., & Schirmer, S. (2009). "GK12: Environmental & Molecular Biosciences in the Natural State". Arkansas Curriculum Conference 2009.

Hall, J. (Presenter & Author), Conference on Information Technology, “Integrating a Computer-Assisted Learning Environment into Algebra,” CIT, Detroit, MI. (October 2009).

Hall, J. Michael (Presenter & Author), Research and Technology Integration in Mathematics Education, "Using Technology as an Assessment Tool in Algebra," RTIME, Charleston, SC. (February 2, 2009).

Hall, J. (2008). An Analysis of Revitalizing Algebra and Geometry. Hawaii International Conference on Education.

Hall, J., & Mitchell, S. (2008). A New Day in Mathematics Supervision. National Council of Supervisors of Mathematics Annual Meeting.

Christian, A. (Presenter & Author), Kennon, T. (Presenter & Author), Hall, J. Michael (Presenter & Author), Arkansas Curriculum Conference, ""GK12: Environmental & Molecular Biosciences in the Natural State"," Arkansas Curriculum Conference Organizations, State House Convention Center and Peabody Hotel, Little Rock, AR. (November 14, 2008).

Hall, J. Michael, Arkansas Curriculum Conference, "Implementation of the Interwrite Pad in Mathematics Classes," Arkansas Department of Education, Little Rock, AR. (November 11, 2008).

Hall, J. Michael (Presenter & Author), Arkansas Association of Developmental Education, "Using Technology as an Assessment Tool in Algebra," ArkADE, Hot Springs, AR. (September 19, 2008).

Hall, J. Michael (Presenter & Author), Mitchell, S. (Presenter & Author), National Council of Supervisors of Mathematics Annual Meeting, "A New Day in Mathematics Supervision," National Council of Supervisors of Mathematics, Salt Lake City, UT. (April 7, 2008).

Hall, J. Michael (Presenter & Author), International Conference for Technology in College Mathematics, "Using Technology as an Assessment Tool in Algebra," Prentice Hall, San Antonio, TX. (March 1, 2008).

Hall, J. Michael (Presenter & Author), Hawaii International Conference on Education, "An Analysis of Revitalizing Algebra and Geometry," University of Hawaii, Honolulu, HI. (January 8, 2008).

Hall, J. (Presenter & Author), Hawaii International Conference on Mathematics, Statistics and Related Fields, January 2007, Honolulu, HI. Presentation titled “The Marriage of Art and Geometry.”

Hall, J. (Presenter & Author). International Conference for Technology in College Mathematics, February, 2007. Presentation titled “Implementation of a Computer-Assisted Learning Environment in Algebra.

Hall, J. (Presenter & Author). MAA MathFest, August 2007, San Jose, CA. Presentation titled “Implementation of a Computer-Assisted Learning Environment in Algebra”

Hall, J. (Presenter & Author). ArkADE(Arkansas Association of Developmental Education), September 2007, Little Rock, AR. Presentation titled “A New Day in Algebra-Assessment of Student Learning with On-line Assistance”

Hall, J. (Presenter & Author). Arkansas Curriculum Conference, November 2007, Little Rock, AR. Presentation titled “How Big is Big: Proportional Reasoning for the Middle School.”

Hall, J. (Presenter & Author). Arkansas Curriculum Conference, November 2007, Little Rock, AR. Presentation titled “Tools for Geometric Constructions in the Middle School.”

Hall, J. (Presenter & Author). School Science and Mathematics Association, November 2007, Indianapolis, IN. Presentation titled “Data Analysis for Teachers in Arkansas.” Presentation done in conjunction with Sally Robison of the University of Arkansas-Little Rock.

Hall, J. (Presenter & Author). National Council of Teachers of Mathematics Regional Conference, November 2007, Houston, TX. Presentation titled “Improving Algebra and Geometry Scores with Technology.”

Hall, J. M. (2006). *Changes in teachers’ attitudes and use of student-centered pedagogy.* Association for Psychological Science, 2006, May 27, New York, NY

Hall, J. M. (2006). *AP Calculus and the TI-84.* International Teachers Teaching with Technology Conference (T3), 2006, February 25, Denver, CO

Hall, J. M. (2006). *Middle school mathematics learning and teaching: A new approach to content development of middle school math teachers.* Research Council on Mathematics Learning, 2006, February 24, Las Vegas, NV

Hall, J. M. (2006). *The Marriage of Art and Geometry.* Arkansas Conference on Teaching, 2006, November 2, Little Rock, AR

Hall, J. M. (2006). *Geometer’s Sketchpad for the novice user.* Arkansas Conference on Teaching, 2005, November 6, Little Rock, AR.

Hall, J. M. (2005, March). *Teaching AP calculus using the TI-84.* A presentation at the International Teachers Teaching with Technology Conference (T3), Washington, DC.

Hall, J. M. (2004, November 4). *A comparative analysis of mathematics self-efficacy of developmental and non-developmental freshman mathematics students*. A presentation at the National Council of Teachers of Mathematics, regional meeting, New Orleans, LA.

Hall, J. M. (2004, March 13). *Modeling the world with a Ti-83 SE*. A presentation at the International Teachers Teaching with Technology Conference (T3), New Orleans, LA.

### Institutional Committees

University

Undergraduate Enrollment and Academic Policy Committee (University) Fall 2008 - Summer 2012

Faculty Senate Vice President (2009)

Faculty Senate Finance Committee (2009)

Arkansas State University-Undergraduate Enrollment and Academic Policy Committee (2008-2011)

Arkansas State University-Undergraduate Curriculum Committee (2008-2011)

Arkansas State University-Advanced Curriculum Committee (2008-2011)

University Hearings Committee (2011-present)

### Other Institutional Service

(Committee Chair) Biology Chair Search Committee (University) Fall 2010

(Administrative Assignment, Other) Undergraduate Curriculum Committee (University) Fall 2007 - Summer 2012

(Committee Member) College of Professional Education Forum (University) Fall 2006 - Summer 2012

(Committee Chair) Assuring Student Success Through Educational Technology Support (ASSETS) (University) Fall 2005 - Summer 2009

(Committee Chair) Department of Mathematics and Statistics NCATE Committee (University) Fall 2002 - Summer 2012

(Committee Chair) Mathematics Education Screening Committee (University) Fall 2002 - Summer 2012

(Committee Chair) Mathematics for Teachers (University) Fall 2002 - Summer 2012

### Teaching

Fall 2006 Courses:

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| --- |
| MATH 1023 012 - College Algebra |
| MATH 3303 001 - Modern Algebra I |

Spring 2007 Courses:

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| --- |
| EDMA 4563 001 - Methods and Materials for Teaching Mathematics in the Secondary School |

Summer 2007 Courses:

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| MATH 5963 1 - IMPROV ALG AND GEO THRU TECH |

Fall 2007 Courses:

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| --- |
| MATH 1023 014 - College Algebra |
| MATH 2204 001 - Calculus I |
| MATH 3303 001 - Modern Algebra I |

Spring 2008 Courses:

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| EDMA 4563 001 - Methods and Materials for Teaching Mathematics in the Secondary School |
| MATH 3343 001 - College Geometry |
| MATH 4423 001 - Modern Algebra II |
| MATH 5423 1 - MODERN ALGEBRA II |

Summer 2008 Courses:

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| --- |
| MATH 2123 001 - Mathematics for School Teachers II |
| MATH 2143 001 - Business Calculus |
| MATH 5123 1 - SPECIAL TOPICS MATH SCI EDU |

Fall 2008 Courses:

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| --- |
| MATH 1023 006 - College Algebra |
| MATH 3303 001 - Modern Algebra I |
| MATH 3353 001 - History of Mathematics |
| MATH 459V 002 - Special Problems in Mathematics |

Spring 2009 Courses:

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| --- |
| EDMA 4563 001 - Methods and Materials for Teaching Mathematics in the Secondary School |
| MATH 3343 001 - College Geometry |

Fall 2009 Courses:

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| MATH 2113 001 - Mathematics for School Teachers I |
| MATH 2204 001 - Calculus I |
| MATH 2204 004 - Calculus I |
| MATH 3303 001 - Modern Algebra I |

Spring 2010 Courses:

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| EDMA 4563 001 - Methods and Materials for Teaching Mathematics in the Secondary School |
| EDMA 5563 1 - METH MAT TEACH MATH 2ND SCHOOL |
| MATH 3133 001 - Math for School Teachers III |
| MATH 3343 001 - College Geometry |
| MATH 459V 003 - Special Problems in Mathematics |

Summer 2010 Courses:

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| MATH 3003 001 - Geometry for Middle School Teachers |

Fall 2010 Courses:

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| MATH 2113 001 - Mathematics for School Teachers I |
| MATH 3303 001 - Modern Algebra I |

Spring 2011 Courses:

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| EDMA 4563 001 - Methods and Materials for Teaching Mathematics in the Secondary School |
| MATH 2143 003 - Business Calculus |
| MATH 3133 001 - Math for School Teachers III |

Spring 2012 Courses:

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| MATH 3003 001 - Geometry for Middle School Teachers |
| MATH 3133 001 - Math for School Teachers III |
| MATH 3133 002 - Math for School Teachers III |
| MATH 3133 003 - Math for School Teachers III |
| MATH 3133 004 - Math for School Teachers III |
| MATH 3254 003 - Calculus III |

Summer 2012 Courses:

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| MATH 2143 002 - Business Calculus |
| MATH 3003 003 - Geometry for Middle School Teachers |
| MATH 3003 004 - Geometry for Middle School Teachers |
| MATH 3003 005 - Geometry for Middle School Teachers |
| MATH 3003 006 - Geometry for Middle School Teachers |

Fall 2012 Courses:

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| MATH 2204 006 - CALCULUS I |
| MATH 3254 001 - CALCULUS III |
| MATH 3254 002 - CALCULUS III |
| MATH 3254 H01 - HNRS CALCULUS III |
| MATH 3254 H03 - HNRS CALCULUS III |