Genevieve Davis, Ph.D

Associate Professor TLC gdavis@kent.edu

Education	
Ph.D., Curriculum & Instruction	1983
University of Connecticut	
Areas of concentration: Mathematics Education and Special Education Dissertation Title: Hemispheric Laterality, Gender, and Verbal and Visuospatial Processing Profic Mathematical Ability in Young Children	iency as Predictors of
M.A., Mathematics Education /Special Education	1974
University of Connecticut	
University of Connecticut Areas of concentration: Mathematics Education /Special Education Child Development/Family Relations	
B.A., Education and Mathematics	
Bethany College, Bethany, West Virginia	
Other Professional Experience	
International Baccalaureate Organization: Workshop Leader, Consultant, Site Visitor	6/2009 - present
Ohio Board of Regents Grant	02/2007 - 06/2008
Co-PI with Dr. Judith Melillo [\$113,000] Akron Mathematics Academy Grades 3-8 Mathematics	
Mathematics and Science Partnership Project [MSP]	02/2006 - 06/2009
Co-PI with Dr. Trish Koontz [\$750,000] Ohio Department of Education Ohio Mathematics Academ 3-6 Mathematics	ny Program Grades
	10/2003 - 10/2003
National Council of Teachers of Matheamtics Invited delegate to St. Petersburg, Russia	

National Council of Teachers of Mathematics Invited delegate to China (Beijing, Nanjing, Xi'an and Shanghai)

Consultant and Writer International Schools Curriculum Project (ISCP)

Mathematics, Pre-K - Grade 6 Geneva, Switzerland and Amsterdam, the Netherlands

08/1993 - 06/1994

Mathematics Consultant PK-Grade 6; 6th grade teacher, International School of Amsterdam, the Netherlands

08/1992 - 08/1998

08/1989 - present

Elected Member, Ohio Council of Teachers of Mathematics and The Ohio Department of Education Standards Task Force - Mathematics Assessment

KSU Faculty, Mathematics Education (Except 1993-1994) Kent Sate University Teaching, Leadership and Curriculum Studies Program Area: Mathematics Education

Publications	
James, J. & Davis, G. (in press). Striving for International-Mindedness in Teacher Education: One Program's Journey. <i>Ohio Social Studies Journal</i> . Publication: <i>Journal Articles, Refereed</i>	2010
Davis, G. & Keller, D. (2009). <i>Science and Mathematics in a Child's World</i> . Columbus, Ohio: Prentice Hall. 374 pages. Publication: <i>Books Authored</i>	2009
Davis, G. and Tu, T. (2008). Mathematics and Science in the Early Years: International Perspectives and Theoretical Views in Grotewell, P.G. & Burton, Y.R. Early Childhood Education: Issues and Developments, pp. 23-45. Publication: <i>Book Chapters</i>	2008
2006-2008 Math Science Partnership [MSP], Ohio Mathematics Academy Program [OMAP] Curriculum Development Curriculum has been developed with Dr. Trish Koontz 50/50. The curricular modules: 2008 MSP OMAP Data Analysis, Measurement, Geometry and Processes, Grades 3-6, Revised 2007 MSP OMAP Data Analysis, Measurement, Geometry and Processes, Grades 3-6 2007 MSP OMAP Number, Algebra Probability and Processes, Grades 3-6 Revised 2006 MSP OMAP Number, Algebra Probability and Processes, Grades 3-6 Module	2008

Publication: Curriculum

06/1999 - 07/1999

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01/1993 - 04/1994

Davis, G. & Koontz, T. (August 2008) Math Science Partnership Program Federal report. A two year comparison of Analyzing Student and Teacher Data to Inform Professional Development Practice: Ohio Mathematics Academy Program SUM- PLUS. 46 pages plus appendices	2008
Publication: Monographs	
Koontz, T. & Davis, G. (August 2007) Math Science Partnership Program Federal report. Designing and Implementing an Effective Professional Development Program : Ohio Mathematics Academy Program SUM- PLUS [Students Understanding Mathematics – Planning, Learning, Understanding and Success 42 pages plus appendices. Publication: <i>Monographs</i>	2008
Davis, G. & Melillo, J. Akron Mathematics Academy -OBR Grant - The Professional Development of Teachers Grades 3-6 Enhancing Mathematical Content Knowledge. Publication: <i>Monographs</i>	2008
2005-2006 NEOCEx High School and College Geometry Curriculum: Polygons, Platonic Solids, Surface Area, Geometric Dissections I and II, and Angle Trisection. Publication: <i>Curriculum</i>	2006
Davis, G. & Hyun, E. (2005).A study of kindergartners' spatial representation in a mapping project. <i>Mathematics Education Research Journal, pp. 73-100.</i> Publication: <i>Journal Articles, Refereed</i>	2005
Hyun,E. & Davis, G. (2005). Study of kindergartners\' converstiaons of computer-based technology use. <i>Early Childhood Research Quarterly. pp.118-135</i> Publication: <i>Journal Articles, Refereed</i>	2005
Davis, G. (2003) Section contributor. Proceedings of the Professional Activities of the Mathematics Education Delegation to St. Petersburg, Russia. Publication: <i>Conference Proceedings</i>	2003
Davis, G. (2001) Section contributor. Proceedings of the Professional Activities of the Mathematics Education Delegation to the Republic of South Africa. Second Grade Mathematics at Mickelfield Primary School - Cape Town, South Africa. Publication: <i>Conference Proceedings</i>	2001
Davis, G. (2000) Experiencing the vision: Seeing mathematics differently (Bowling Green State University and Hancock County). Ohio Board of Regents, Dwight D. Eisenhower Professional Development Program. Project evaluation report. (28 pages) Publication: <i>Monographs</i>	2000
Davis, G. (1999) Section contributor. Proceedings of the Professional Activities of the Mathematics Education Delegation to the People\\\'s Republic of China. Elementary Mathematics Teacher Education at Kent State University Publication: <i>Conference Proceedings</i>	1999
Davis, G. (1999) Experiencing the vision: Seeing mathematics differently (Bowling Green State University and Wood County). Ohio Board of Regents, Dwight D. Eisenhower Professional Development Program. Project evaluation report. (25 pages) Publication: <i>Monographs</i>	1999

Davis, G. (1998). Section Contributor, Mathematics, pre-kindergarten - Grade Six. International Schools Curriculum Project (ISCP) - International Baccalaureate Primary Years Programme (Invited and refereed)	1998
Publication: Curriculum	
Davis, G. (1997). Exploring concepts of personal time with young children. Ohio Journal of School Mathematics. (Refereed) Publication: <i>Journal Articles, Refereed</i>	1997
Davis, G. & T. Koontz (1997). Section contributors. Model Mathematics Assessments. Ohio Council of Teachers of Mathematics Standards Task Force and the Ohio Department of Education Division of Curriculum, Instruction, and Professional Development. (Invited and refereed) Publication: <i>Curriculum</i>	1996
Davis, G. & Ambrose, R. (1996). Discovering time and calendar concepts with young children. Journal of the Ohio Elementary Kindergarten Nursery Educators. Vol. 15, pp.12-15. (Refereed). Publication: <i>Journal Articles, Refereed</i>	1996
Davis, G. (1996). Exploring geometric concepts with young children. Ohio Journal of School Mathematics. No.32, pp. 22-24. (Refereed). Publication: <i>Journal Articles. Refereed</i>	1996
Contributor/Writer: International Schools Curriculum Project: Curriculum and Mathematics [Amsterdam and Geneva]. Adopted by International Baccalaureate [IB] Organization as IB Primary Years Program Mathematics -ages 3-12. Publication: <i>Creative Activity</i>	1994
Presentations	
Davis, G., Mitroff, A. & Brent, R. Developing meaning for linear measurement. Ohio Council of Teachers of Mathematics, Akron, Ohio. Type: <i>State Refereed</i>	2010
Davis, G. Algebraic foundations for number in the early years. National Council of Teachers of Mathematics Regional Conference. Boston, Massachusetts. Type: <i>Regional Refereed</i>	2009
Davis, G. & Barbour, N. Preparing early childhood teachers to work in a global society. Paper presented at the European Early Childhood Education Research Association Annual Conference. Strasbourg, France Type: <i>International Refereed</i>	2009
Davis, G., Koontz, T. & Koebley, S. Analyzing learning from OMAP assessments. Ohio Council of Teachers of Mathematics, Cincinnati, Ohio. Type: <i>State Refereed</i>	2009
Arhar, J; Koontz, T.; Davis, G; & Beal, J. (June, 2008). Critical need for mathematics professional development. American Association of College Teacher Educators (AACTE) a Day on the Hill. Washington D.C.	2008

Davis, G & Koontz, T. Geometry and Spatial thinking: Using Processes to Improve Mathematical Content Knowledge. International Congress for Constructivist Mathematics Learning Istanbul, Turkey.	2008
Type: International Invited	
Koontz, T. & Davis, G. Engaging Students in Geometric Reasoning and Spatial thinking. Kent State Koleji, Istanbul, Turkey. Type: <i>International Invited</i>	2008
Davis, G & Koontz, T. The Role of Strategies and Representation in Problem Solving. Kent State Koleji, Istanbul, Turkey.	2008
Koontz, T. & Davis, G. Mathematical Thinking. International Congress for Constructivist Mathematics Learning, Istanbul, Turkey. Type: International Invited	2008
Davis, G. Algebraic ideas in primary school mathematics. NCTM Regional Conference, Cleveland, Ohio.	2008
Type: Regional Refereed	
Davis, G. Algbraic thinking in young children. National Council of Teachers of Mathematics. Atlanta, Georgia.	2007
Type: National Refereed	
Davis, G. Theoretical foundations of algebraic thought in young children. National Council of Teachers of Mathematics Regional Conference. Richmond, Virginia.	2007
Type: Regional Refereed	
Koontz, T. & Davis, G. Math Science Partnership Program Lessons Learned from the Ohio Mathematics Academy Program SUM- PLUS [Students Understanding Mathematics – Planning, Learning, Understanding and Success Ohio Department of Education, Columbus, Ohio	2007
Type: State Invited	
Davis, G. & Melillo, J. Professional Development ~Akron Mathematics Academy. OCTM Columbus, Contributing teachers: Kim Buehler and Charlene Tabata.	2007
Davis, G. Foundations for algebraic thinking in [young children. Ohio Council of Teachers of Mathematics. Toledo, Ohio.	2006
Type: State Refereed	
Davis, G. & Koontz, T. Math Science Partnership Program – Planning and Implementation of Ohio Mathematics Academy Program SUM- PLUS [Students Understanding Mathematics – Planning, Learning, Understanding and Success Ohio Department of Education, Columbus, Ohio	2006

Type: State Invited

Davis, G., Burroughs, C. Neuzil, J. Christensen, J. NEOCEx: An exploration in two- and three dimensional geometry. Kent State University NEOCEx 1st Mathematics Science Symposium, OBR	2006
Type: Local Invited	
Davis, G. A theroetical perspective on \'practicing the facts\'. Ohio Council of Teachers of Mathematics. Dayton, Ohio.	2005
Type: State Refereed	
Davis, G. Algebraic thinking in young children. National Council of Teachers of Mathematics Western Regional Conference. Denver, Colorado. Type: <i>Regional Refereed</i>	2005
Davis, G. Constructivist approaches to primary mathematics: Building Meaning for Number. Cleveland Heights/University Heights Staff Development Day, Cleveland Heights, Ohio. Type: <i>Local Invited</i>	2005
Davis, G. Constructivist approaches for developing concepts for multiplicative thinking. Cleveland Heights/University Heights Staff Development Day, Cleveland Heights, Ohio. Type: <i>Local Invited</i>	2005
Stoll, J. & Davis, G. Exploring patterns with two to five year olds. Ohio Council of Teachers of Mathematics. Akron, Ohio. Type: <i>State Refereed</i>	2004
Davis. G. Mathematics education teacher preparation. Hertzen State Pedagogocal University, St. Petersburg, Russia. Type: <i>International Refereed</i>	2003
Davis. G. Kindergartners' spatial representation in a year long mapping project. European Council of International Schools (ECIS). Amsterdam, the Netherlands Type: <i>International Refereed</i>	2003
Davis, G. & Nadler, M. Mathematics education in the Republic of South Africa. Association of Childhood Education International. San Diego, California. Type: <i>International Refereed</i>	2002
Davis, G. and J. Melillo Explorations with geometry and measurement for middle school. National Council of Teachers of Mathematics Regional Conference. Columbus, Ohio. Type: <i>Regional Refereed</i>	2001
Davis,G. and N. Condit. NCTM Standards based Kindergarten experiences. National Council of Teachers of Mathematics Regional Conference. Columbus, Ohio. Type: <i>Regional Refereed</i>	2001
Davis, G. and C. Steiner. Challenge and motivate your middle school math students. National Council of Teachers of Mathematics Regional Conference. Columbus, Ohio. Type: <i>Regional Refereed</i>	2001

Davis, G. Exploring measurement with young children. Ohio Council of Tachers of Mathematics Annual Conference. Toledo, Ohio.	2000
Type: State Refereed	
Davis, G. Exploring geometric concepts with young children. National Council of Teachers of Mathematics Eastern Regional Conference. Pittsburgh, Pennsylvania.	1999
Type: State Refereed	
Davis, G. A Model for Preservice Teacher Mathematics Education. Nanjing University, Nanjing, China.	1999
Type: State Refereed	
Davis, G. Philosophical and psychological aspects of assessment, curriculum and teaching; and Mathematics as content and process inquiry: implications for assessment. International School of Amsterdam, International Schools Curriculum Project. Amsterdam, the Netherlands. (Invited)	1998
Type: International Refereed	
Davis, G. Developing concepts for number and number relationships with young children. Association for Childhood Education International. Portland, Oregon.	1997
Type: International Refereed	
Davis, G. Proficiency testing: implications for teaching young children. National Council of Teachers of Mathematics Eastern Regional Conference. Cleveland, Ohio.	1997
Type: Regional Refereed	
Davis, G. Teaching and learning at an international school "Educational for international understanding." Association for Childhood Education International. Minneapolis, Minnesota.	1996
Type: International Refereed	
Davis, G. The role of drill and practice: Some perspectives from research. Ohio Council of Teachers of Mathematics.	1996
Type: State Refereed	
Service	
Reviewer, International Baccalaureate Organization	2009 - 2010
Volunteer, International Baccalaureate Primary Years Programme Authorization and Evaluation. Hade December 2009: Indianapolis. Indiana February 2010: Miami. Florida April 2010: Greece. New York M	en, Idaho Iav 2010.
Type: International	
Faculty Advisory Committee	2008 - 2009
Faculty Advisory Committee 1992-93: 1996-97: 2000-01: 2001-02: 2003-04 elected	2000 - 2003
Type: Department	
Member. Professional Standards Committee	2008 - 2009
Review and make recommendation aobut KSU professional standards.	

Turner Depertment	
Type: Department	
Judge, Research and Graduate Studies	2007 - 2007
Reviewer, Research Incentive Grant Proposals (2007)	
Type: University	
Consulting, NcNair Scholars' Program	2006 - 2006
McNair Scholars' Mentor (summer 2006) Mentored an undergraduate student - grant work and research in Mathematics Education	
Type: University	
Member, Citation and Recognition Committee	2005 - 2011
Advisory to the President for honorary awards and degrees conferred at commencements.	
Type: University	
Representative, KSU Alumni	2004 - 2005
New Student Orientation – parents and students (2004; 2005)	
Type: University	
Coordinate, Honors College	2003 - 2004
Honors College Advising – Individual Honors Thesis advisor: Fall 2003 (2 students); Fall 2004 (1 student)	
Type: University	
Curriculum Committee	2002 - 2009
Curricular review and decisions for Teaching, Leadership and Curriculum Studies Department. Type: Department	
	4000 0000
Dissertation Awards Committee	1999 - 2000
Type: College	
member, Elementary Program Area: Kotis, Van Campen, and Mancuso Scholarship	1998 - 2001
r eview Type: <i>Department</i>	
. ,	
member, Undergraduate Appeals, Professional Standards and Admission Committee	1998 - 1999
Type: College	
Undergraduate Council	1009 2004
Undergraduate council	1990 - 2001
Type: College	

Type: University

Summit County Technology Committee	1996 - 1996
Summit County Technology Committee (Spring, 1996 - Pail 1996) Type: College	
College Advisory Council	1996 - 1997
Type: College	
member, Student Center Advisory Board	1996 - 1997
Type: University	
member, Registration Advisory Committee	1996 - 1997
Type: University	
member, Foundations Subcommittee,	1995 - 1997
Middle Childhood Education Cohort (1995-1997)	
Type: Department	
member, Student Center Advisory Board	1992 - 1994
Student Center Advisory Board (19921994)	
Type: University	
Grants	
Co PI, Akron Mathematics Academy	2007 - 2008
Mathematics Education Professional Development - Grades 3-8	
Collaboration with: Genevieve Davis Judith Melillo	
Awarded: \$113,000.00	
Ohio Board of Regents - Training	
Co PI, Mathematics & Science Partnership Program [MSP] Ohio Mathematics Academy Program [OMAP] Grant	2006 - 2009
Mathematics Education Professional Development Grades 3-6	
Collaboration with: Genevieve Davis Trish Koontz	
Awarded: \$750,000.00	
Ohio Department of Education - Training	