

DIANA S. PERDUE

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EDUCATION

Doctor of Philosophy in Mathematics Education earned in May 1997 from the University of Virginia, Charlottesville. Title of dissertation: "A descriptive study of developmental mathematics students' affects and beliefs."

Master of Arts in Teaching Mathematics earned in April 1991 from Jacksonville University, Jacksonville, Florida.

Bachelor of Arts earned in May 1988 from Belmont University, Nashville, Tennessee. Major: Mathematics, Minor: Psychology.

ADDITIONAL TRAINING AND EXPERIENCE

Completed the following:

Teacher Effectiveness Training Seminars (Levels I and II).

Adventure Recreation Training.

Adventure Course Facilitator Training.

Climbing and Belay Competency Test.

Whitewater Kayaking course (Nantahala Outdoor Center).

Adventure Based Counseling Training (Project Adventure).

Adventure in the Classroom course (Project Adventure).

Whitewater Kayaking Training (Dvorak Expeditions).

WTAMU Online Training Course.

First Aid and CPR training and received certification (American Red Cross).

River Rafting Guide training (Richmond Raft Company).

Swift Water Rescue training (Richmond Raft Company).

AIU Online Faculty Orientation Course.

"Introducing Science Faculty from HBCUs to Materials Science & Engineering" workshop (University of Alabama, Tuscaloosa)

Algebra through Function Academy (Duck NC through The Ohio State University)

Teaching with Classroom Response Systems Web Seminar (Turning Technologies)

Online Teaching Certificate Program (Sloan-C): Second Life for Educators, Web 2.0 Tools to Improve Learning, and Open Educational Resources

ACADEMIC EXPERIENCE

Associate Professor of Mathematics Education, Virginia State University, Mathematics Department, 8/03 – present.

- Taught various graduate and undergraduate college courses as needed in the mathematics department including College Algebra/Trigonometry, Modern Geometry, Statistics, Teaching Mathematics in the Elementary School, Geometry & Measurement, Secondary Problem Solving, History of Mathematics, and Teaching Mathematics in the Secondary School.
- Served the department in preparation of the NCATE SPA report for the K-12 mathematics education program within the university.
- Designed, developed, and taught two new courses in the mathematics education program that emphasize Algebra for All: Number & Operations and Algebra & Functions.
- Served the department on the Mathematics Education graduate faculty committee in redesigning our Master's of Mathematics Education Program.
- Served as liaison between student teacher, supervising K-12 teacher, and the university in pre-service teacher programs of field experience.
- Designed and developed the course Algebra & Functions for delivery via Distance Education using MediaSite software.

Assistant Professor of Mathematics Education, West Texas A&M University, Mathematics Department. 1/99 – 8/03.

- Taught various graduate and undergraduate college courses as needed in the mathematics department including Fundamentals of Math I & II, College Geometry, Modern Math II, Computer Math I & II, Problem Solving (Elementary and Secondary) and Teaching Mathematics with Technology (Elementary and Secondary).
- Designed, developed, and taught Teaching Secondary Mathematics with Technology as an on-line course as part of the distance learning effort at WTAMU.
- Designed, developed, and taught Mathematics for Teachers as an on-line course as part of the distance learning effort at WTAMU to assist students in preparing for the state certification exam.
- Designed, developed, and taught two new courses using inquiry, "Problem Solving for Secondary Mathematics" and "Mathematics for Teachers" (the capstone course for the math ed program).
- Served as Campus Team Leader for the Texas Collaborative for Excellence in Teacher Preparation (TxCEPT), a National Science Foundation (NSF) – funded project involving 10 universities in the Texas A&M system as well as numerous community colleges and K-12 schools and districts.
- First Cohort Member of the Texas A&M University System Academy for Educator Development.
- Chair of the Mathematics Development section of the Academy Roadmap Project, sponsored by the Institute for School – University Partnerships.
- Oversaw the pre-testing and approval of those students seeking to take the Texas ExCET / TExES examination (for teacher certification in the state of Texas).

ACADEMIC EXPERIENCE cont.¹**Instructor, University of Virginia Continuing Education, Virginia. 8/92 – 3/99**

- Taught credit courses for groups of K-12 in-service teachers seeking recertification through the Continuing Education offices in Richmond, Roanoke, Lynchburg, and Charlottesville.
- Courses included “Selected Topics in K-12 Mathematics,” “Goals of Mathematics Education,” “Teaching & Assessing the New Mathematics Standards Of Learning (SOLs),” “Interpreting the Virginia SOLs in Algebra and Geometry,” “Problem Solving in Grades 4-7,” and “Mathematics for the Middle School.”

Mathematics Department Chair / Teacher, The Village School, Charlottesville, Virginia. 9/95 - 6/96

- Taught fifth and sixth grade mathematics and computer applications.
- Designed the mathematics curriculum including assessment materials.
- Responsible for textbook selection and for purchase of desktop computers & appropriate software.
- Participated in parent involvement and education seminars and meetings.
- Conducted parent-teacher conferences for all mathematics students.

Facilitator, Teacher Enhancement Institute (TEI) University of Virginia, Charlottesville, Virginia. Spring, 1995.

- Facilitated seminars for middle school mathematics and science teachers designed to enhance their teaching. Included appropriate use of technology and NCTM-approved methodology. Funded by a National Science Foundation (NSF) grant.

University Supervisor, University of Virginia, Charlottesville, Virginia. 1992 - 1993, 1993 - 1994 (school years).

- Responsible for conducting classroom observations for 20 graduate students during their student teaching.
- Served as liaison between clinical instructor and student teachers.
- Conducted weekly meetings with student teachers to discuss progress, problems, concerns, and experiences.
- Assisted student teachers in developing their field projects.
- Responsible for working with their advisor in writing letters of recommendations for student teachers.

Counselor / Instructor in Mathematics, Edward Waters College, Jacksonville, Florida. 8/90-12/91.

- Taught Differential Equations, Trigonometry, and Discrete Mathematics for college students.
- Tutored college students in the Upward Bound program through Student Support Services.
- Advised and counseled students in the Upward Bound program through Student Support Services.

¹ Selected older experience listed – for a complete listing of all academic experience, please email me.

TECHNOLOGY- RELATED WORK EXPERIENCE²

DEVELOPMENT

Content Writer/ Consultant, Boxer Jam Inc., Charlottesville, Virginia. 1995 - 1996 (full-time May - September, part-time September - March).

- Assisted in the design, planning and development of multimedia educational software.
- Content writer for “Boxer Trigonometry 1.0” – lessons included sine and cosine functions, the unit circle, angles and degrees, and the x-y plane.
- Assisted in pre-production planning of “Boxer Algebra 1.0” including design, content, and educational style.

ACADEMIC

Technical Trainer, Lockheed Martin, Research Triangle Park, North Carolina. 1/98 – 1/99.

- Taught Windows 95, Word Perfect Suite 8, Lotus Notes 4.51 and 4.6, Lotus 123, Groupwise, Freelance Graphics, and various other software packages as needed for adults in the Environmental Protection Agency.
- Responsible for supervision and assessment of progress within the program and reporting that data to contract supervisor.
- Developed course materials (including manuals and student data disks) for the above-listed software products.
- Assisted in curriculum & content design for the technical training program.

PUBLICATIONS

Perdue, D. (2009). Graphing Change – The Story of One Teacher’s Conversion. *The Great Circle*. Greater Richmond Council of Teachers of Mathematics (GRCTM) journal, Vol. XLI, No. 2, February 2009.

Perdue, D. (2007), Pre-Service Teachers’ Notions about Mathematics and the Teaching of Mathematics. HICE 2007 Proceedings.

Perdue, D. (2006), Project: Handshake Problem. *Vision – Potential*. HBCU College Algebra Reform Consortium Newsletter, #67.

Perdue, D. (2004), Grouping Techniques: Ideas from Adventure Education. *Empowering The Beginning Teacher of Mathematics – Elementary School*. NCTM.

Perdue, D. (2000). Having a mathematical mind pays off. *Amarillo Globe-Times*.

Perdue, D. (1997). A descriptive study of developmental mathematics students’ beliefs and affects. University of Virginia.

West, P., Garofalo, J., & Perdue, D. (1993). Concerns and in-service needs of developmental mathematics instructors. *Research and Teaching in Developmental Education*, 9(2), 81-85.

² Selected older employment listed – for a complete list of all technology-related employment, please email me.

PRESENTATIONS

Greater Richmond Council of Teachers of Mathematics (GRCTM) 31st Annual High School Student Mathematics Conference, March 2009: "How to Think Sideways."

2008 E-Learn Conference by Association for the Advancement of Computing in Education (AACE) November, 2008: "Enhancing Elementary Statistics via E-Learning." (Accepted & Scheduled to Present)

VSU Opening Conference Workshops, Academy for Faculty Development, August, 2008: "Sharing Strategies and Teaching Stories." (Co-presenter with Dr. Cheryl Adeymi)

National Council of Teachers of Mathematics (NCTM) Regional Conference, October, 2007: "What're the Odds? Pre-Service Teachers & Probability."

Research Council on Mathematics Learning (RCML) Annual Conference, March, 2007: "Aligning Assessment with Refocused Mathematics Courses for Teachers."

Hawaii International Conference on Education (HICE) Annual Conference, January, 2007: "Pre-Service Teachers' Notions about Mathematics and the Teaching of Mathematics."

Research Council on Mathematics Learning (RCML) Annual Conference, February 23, 2006: "Pre-Service Teachers' Affect & Attitudes Towards Mathematics Learning."

Virginia State University's "Very Important Junior" (VIJ) Day for area high-school students, April 8, 2005: "Chaos or Order? Discovering Fractals."

Virginia Council of Teachers of Mathematics (VCTM) Annual Conference, March 11, 2005: "College Algebra Reform: The Report of an Attempt."

Research Council on Mathematics Learning (RCML) Annual Conference, February 25, 2005: "College Algebra Reform: The Report of an Attempt."

Paper submitted to the National Council of Teachers of Mathematics (NCTM) Annual Conference Research Presession, April 20, 2004: "Technological Progress: How far HAVE we come?"

Research Council on Mathematics Learning (RCML) Annual Conference, February 20, 2004: "An Analysis of Pre-Service Teachers' Knowledge of Technology."

Research Council on Mathematics Learning (RCML) Annual Conference, March 8, 2002: "Mathematics Online: Preparing Teachers via Distance Learning."

National Council of Teachers of Mathematics (NCTM) Regional Conference, February 21, 2002: "You Want Us to Do What? Bringing Adventure into your Mathematics Classroom."

PRESENTATIONS³ cont.

Panhandle Area Mathematics and Science Conference, September 29, 2001: “TI-73 Calculator + Candy = Stats??” (Co-presenter with Mary Jane Cruz)

Research Council on Mathematics Learning (RCML) Annual Conference, March 10, 2001: “Using Adventure in the Mathematics Classroom.”

Fourth Annual Conference on School-University Partnerships, October 9, 2000: “Incorporating Adventure into the Mathematics Classroom.”

Academic Roadmap Project, Institute of University – School Partnerships Regional Conference, September 25, 2000: “Development of Exemplars in High School & College Mathematics.”

Panhandle Area Mathematics and Science Conference, September 30, 2000: “Using Adventure in the Mathematics Classroom.”

Designed and presented “Mozart and Mathematics” with Denise Parr-Scanlin, Music Department. This workshop was a combination of piano recital and interactive mathematics demonstration with the TI83 graphing calculator. Spring, 2000.

Research Council on Mathematics Learning (RCML) Annual Conference, March 10, 2000: “Texas Collaborative for Excellence in Teacher Preparation Project.” (Co-presenter with Dr. Harriet Lamm)

Research Council on Mathematics Learning (RCML) Annual Conference March 10, 2000: “Effect of Teacher Actions on Student Beliefs about Mathematics.”

GRANTS & RESEARCH

Research interests primarily include four areas: Improvement in Teacher Licensure Scores, Designing Effective On-line Courses for Teacher Preparation, Incorporating Adventure Education in Mathematics Education, and Field-Based Instruction for Pre-Service Teachers.

Grant projects include Teacher Enhancement in Mathematics & Science, Excellence in Pre-Service Teacher Education Programs, Implementing Inquiry-based Mathematics Education courses in K-16, and Bridging the Gap between School & University Mathematics.

- 2009 – 2010 Fulbright Scholar (Rwanda). Research Grant: \$34,960. Research Project Title: “Curriculum Review and Improvement of Pedagogy in Mathematics Teaching” Project Summary: Assist the Kigali Institute of Education in achieving three goals: appropriate mathematics curriculum for pre-service teachers, student-centered methodology in teaching mathematics, and teacher training in effective pedagogy.
- Part of the Tidewater Team to Improve Middle School Mathematics, A Mathematics & Science Partnership Grant with: William & Mary – Virginia State – Hampton – Old Dominion. Taught Algebra & Functions for Middle School Teachers with Dr. Haile, Summer 2008.

³ Older presentations available upon request.

GRANTS & RESEARCH cont.

- NSF/QEM Education Research Workshop participant: part of a two-member STEM team (with Dr. Newby) sent from VSU to attend the Professional Development Workshop – Fundamentals of Research STEM Education, October 2007.
- Co-PI for: HBCU Retreat and Follow Up for Refocusing College Algebra, a proposal for funding to participate in a professional development activity sponsored by West Point Academy (with Dr. Adeymi & Dr. Burton), Spring 2006.
- Participated in a \$1,999,645.00 Department of Defense (DOD) funded project, Assorted Learning Channels for Science, Mathematics, and Engineering Students, to create online tutorials for college students in mathematics, Spring 2005.
- Received a HEAF Fund Grant from West Texas A&M University for over \$8000.00 to redesign teacher preparation courses as more inquiry-based, Fall 2001. Implemented in 2002.
- Received an Academy Fellowship Grant from the Texas A&M University System Regents' Initiative for Excellence in Education for Technology Based Instruction and course redesign. The grant was used to develop an on-line course to enhance teacher training and to share information electronically throughout the state. The course was first offered in Fall, 2001. Academy Fellowship for Development of Distance Learning Courses, Spring & Summer, 2001.
- WTAMU Faculty Development Grant for Summer 2000. Attending Project Adventure's "Adventure in the Classroom" course was a result of this grant.

MEMBERSHIPS

American Mensa

American Mathematics Association (AMA)

National Council of Teachers of Mathematics (NCTM)

Research Council on Mathematics Learning (RCML)

Mathematics Association of America (MAA)

American Mathematical Association of Two-Year Colleges (AMATYC)

Association for Experiential Education (AEE)

National Society for Experiential Education (NSEE)

Association of Mathematics Teacher Educators (AMTE)

PROFESSIONAL SERVICE

Reviewer, W.H. Freeman Publishing, preliminary education of *Reconceptualizing Mathematics*, an Elementary & Middle School Mathematics for Teachers textbook, 2008.

PROFESSIONAL SERVICE⁴ cont.

Reviewer, Prentice Hall Publishing, new edition of *Mathematics for Elementary Teachers*, an Elementary Mathematics textbook, 2006 – present.

Reviewer, *Mathematics Teacher*, secondary mathematics Journal of NCTM (National Council of Teachers of Mathematics), 2006 – present.

Reviewer, *Mathematics Teaching in the Middle School*, middle-school mathematics Journal of NCTM (National Council of Teachers of Mathematics), 2006 – present.

Reviewer, *Leading the Way*, as part of the Teacher Education Materials (TE-MAT) Database by Association of Mathematics Teacher Educators (AMTE), November 2007.

Reviewer, Key College Publishing, new edition of *Mathematics for Elementary Teachers via Problem Solving*, an Elementary Mathematics textbook, 2006 – 2007.

Secretary, Research Council on Mathematics Learning (RCML), national organization which strives to stimulate, generate, coordinate, and disseminate research efforts designed to understand and/or influence factors that affect mathematics learning, 2005 – 2007.

Reviewer, *Focus on Learning Problems in Mathematics*, Journal of RCML (Research Council of Mathematics Learning), 2005 – 2007.

Reviewer, Key College Publishing, Preliminary draft of *Algebra for Elementary and Middle School Teachers*, a Mathematics Education textbook, 2004 – 2005.

Reviewer, Key College Publishing, Preliminary draft of *Understanding Shape*, an Elementary Mathematics textbook, 2004 – 2005.

Reviewer & Member of Task Force, *Foundations for Success: Mathematics Expectations For Grades K-8*, as part of the *Mathematics Achievement Partnership (MAP) Achieve Initiative* By the Association of Mathematics Teacher Educators (AMTE), November 2004

Reviewer, Key College Publishing, Preliminary draft of *Understanding Number*, an Elementary Mathematics textbook. 2003 – 2004.

Reviewer, *Teacher Education and Practice – The Journal of the Texas Association of Colleges for Teacher Education*. 2001 – 2002.

Campus Representative, Standards/Test Development Committee of the (Texas) State Board for Educator Certification (SBEC).

Chair, Mathematics Academic Planning Team, Academic Roadmap Project, The Institute for University-School Partnerships. 1999 – 2002.

Chair, Mathematics Education Faculty Search Committee, West Texas A&M University, 2001.

⁴ Older research & grants available upon request.

HONORS, AWARDS AND FELLOWSHIPS

Fulbright Scholar Award, CIES, 2009 – 2010 (Awarded & Accepted)

Fulbright Scholar Award, CIES, 2008 – 2009 (Awarded)

Who's Who in American Education, 7th Edition, 2005-2006

Who's Who of American Women, 25th Silver Anniversary Edition, 2005.

Who's Who in America, 59th Edition, 2004 – 2005.

Chosen as one of eight faculty members for the first cohort of the Regent's Initiative for Academic Excellence Academy of Teacher Educators, 2000-2002.

New Cyber Tech Award, 2001, for site: <http://www.geocities.com/hypatia-phd/>

Nominated for 2001 World Champion Amateur Poet by the International Society of Poets, Spring, 2001.

Nominated for admission into "Best Poets of the 21st Century" by the International Society of Poets, Fall, 2000.

Awarded one of three faculty development opportunities from WTAMU, Summer, 2000.

Bravenet's Site of the Week Web Site Award, 1999, for site: <http://WTFACULTY.WTAMU.EDU/~dperdue/>

University of Virginia Graduate Assistantship, 1991 – 1995

Awarded a Certificate of Appreciation for Outstanding Contributions to the Medical Academic Advancement Program (MAAP), 1994.

Jacksonville University Graduate Fellowship, 1989 – 1991

Belmont College Academic Scholarship, 1984 – 1988

Who's Who Among Students in American Universities and Colleges, 1987 – 1988

CREDENTIALS

Complete placement file available from Interfolio.com on behalf of the University of Virginia, Charlottesville, VA 22903.

References and letters of recommendation are available upon request.