

# DIANA S. PERDUE

**Permanent Address**  
831 Liverpool Circle #304  
Chester, VA 23836

**Electronic Mail Address**  
[hypatia-phd@yahoo.com](mailto:hypatia-phd@yahoo.com)  
or [dperdue@vsu.edu](mailto:dperdue@vsu.edu)  
**Web Page:** <http://get-me.to/dperdue>  
Or <http://www.hypatia-phd.com/>

**August, 2004**

## 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 Teacher Effectiveness Training Seminars (Levels I and II).  
Completed Adventure Recreation Training.  
Completed Adventure Course Facilitator Training.  
Completed Climbing and Belay Competency Test.  
Completed Administering Windows NT 4.0 Training.  
Completed Whitewater Kayaking course (Nantahala Outdoor Center).  
Completed Lotus Notes 4.5 Basics, Beyond Basics, System Administration 1, and Application Development Levels 1 & 2.  
Completed Adventure Based Counseling Training (Project Adventure).  
Member, Board of Directors of The Heights, an adventure education facility in Greenville, SC.  
Completed Adventure in the Classroom course (Project Adventure).  
Completed Whitewater Kayaking Training (Dvorak Expeditions).  
Completed WTAMU Online Training Course.  
Completed First Aid and CPR training and received certification (American Red Cross).  
Completed River Rafting Guide training (Richmond Raft Company).  
Completed Swift Water Rescue training (Richmond Raft Company).

## 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, Teaching Mathematics in the Elementary School, Teaching Mathematics in the Secondary School, and Teaching Mathematics with Technology (elementary and secondary).
- Served the department in preparation of the NCATE report for the 7-12 mathematics education program within the university.
- Served as liaison between student teacher, supervising K-12 teacher, and the university in pre-service teacher programs of field experience.

### **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).

### **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."
- Presented National Council of Teachers of Mathematics (NCTM) vision for mathematics education using technology and problem-solving in hands-on activities.

### **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 and appropriate software.
- Participated in parent involvement and education seminars and meetings.
- Conducted parent-teacher conferences for all mathematics students.

## ACADEMIC EXPERIENCE cont.

### **Instructor, Medical Academic Advancement Program (MAAP) University of Virginia, Charlottesville, Virginia. Summer, 1994, 1995.**

- Taught seminars for college students in medical school to prepare for the MCAT exam in a federal-funded program designed to improve scores for minority students entering medical school.
- Subjects included interpretation of graphs, functions, problem solving skills, probability, and statistics.

### **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.

### **Adjunct Faculty, Piedmont Virginia Community College, Charlottesville, Virginia. 1/93 - 1/94.**

- Taught Elementary Algebra and Algebra II / Trigonometry for college students.

### **Department Head, National Business College, Charlottesville, Virginia. 8/92 - 12/92.**

- Supervised 10-15 faculty members in business education department.
- Responsible for curriculum development and implementation, as well as departmental assessment of the program's success.
- Taught Business Math, Business English, Keyboarding, Proofreading, and Database for business college students.

### **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.

### **Substitute Teacher, Tennessee Public School, Nashville, Tennessee. 1986 (school year).**

- Substituted in 4<sup>th</sup>-8<sup>th</sup> grades, all subjects.

## TECHNOLOGY- RELATED WORK EXPERIENCE

### TECHNICAL

#### **Computer/ Network Technician, Republic Research and Training Center (RRTC), Charlottesville, Virginia. 11/96 – 8/97.**

- Responsible for maintenance of the network (LAN, Windows NT server, Windows 95 clients; TCP/IP and other communication protocols).
- Responsible for new hardware and software installations, upgrades, troubleshooting, conflict resolution and repair.

**TECHNICAL cont.****Computer Technician, Nimbus Manufacturing, Inc., Ruckersville, Virginia. 8/96 - 10/96.**

- Responsible for hardware and software upgrades, installations, repair, and troubleshooting.
- Network (LAN) support and maintenance (Windows NT and Windows 95 servers, Windows 95 and Windows 3.1 clients).
- Configured new systems according to company specifications.
- Experience with Lotus Notes (set up, installation, and administration), Microsoft Office Suite, Rumba, Netware, TCP/IP, Microsoft Network, and various anti-virus packages (including McAfee and Norton).

**System Configurer, Mountain Micro / Cloneland, Charlottesville, Virginia. 6/96 - 8/96.**

- Configured computer systems according to sales and customer specifications.
- System configuration includes building the system from motherboard and chip up, installation of operating system and applications software, burn-in testing, and conflict resolution.

**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.

**Adjunct Faculty, Piedmont Virginia Community College, Charlottesville, Virginia. Various one-credit and non-credit courses in 1995, 1996, and 1997.**

- Taught Introduction to the PC, Microsoft Word 6.0, Windows 3.1, Windows 95, Windows NT, Office 95, Office 97, and Word Perfect 6.0 & 6.1 for adults through Continuing Education.
- Taught Introduction to Microcomputer Software for community college students through the ITC department.

**Instructor of CIS, Jacksonville University, Jacksonville, Florida. 1/92 - 5/92.**

- Taught Computer Science courses for college students.

**Coordinator / Instructor: Word Processing Department, Barclay Career School, Jacksonville, Florida. 8/89 - 8/90.**

- Supervised 10-15 instructors in the Word Processing Department.
- Conducted classroom observations.
- Responsible for staff evaluations, lesson plan and curriculum changes and approvals, disciplinary reports, in-service planning, graduation planning, and retention programs.
- Taught Word Perfect, Lotus 123, and D-base III+ to career school students.

**ACADEMIC cont.****Computer Science Instructor, Florida Technical College, Jacksonville, Florida. 8/88 - 3/89.**

- Taught various word processing packages (including Word Perfect 4.0, 4.1, and 5.0), database and spreadsheet packages, and BASIC programming to technical college students.

**PUBLICATIONS**

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.

**OTHER PUBLICATIONS**

Several creative works published. These include poetry, "Awake and Dreaming," published in both *The Silence of Infinity* and in *America at the Millennium – The Best Poems & Poets of the 20th Century*. (The International Library of Poetry, Winter 1999.)

This poem as well as "The Artist" can also be found on-line at <http://www.poetry.com/>.

Begun work on designing, developing, and creating a resource website for K-12 teachers of mathematics. The information is posted at <http://www.geocities.com/hypatia-phd/Kayak.html>.

**PRESENTATIONS**

Paper submitted to the National Council of Teachers of Mathematics (NCTM) Annual Conference Research Pre-session, 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."

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."

## **PRESENTATIONS cont.**

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.”

Paper submitted to Research Council of Diagnostic and Prescriptive Mathematics (RCDPM) Annual Conference, February 13, 1999: "The Effect of Teacher Actions on Student Beliefs about Mathematics and the Influence Student Beliefs have upon their Doing Mathematics."

Research Council of Diagnostic and Prescriptive Mathematics (RCDPM) Annual Conference, February 18, 1995: "In-service Teachers' Thoughts about Implementing the NCTM Standards."

National Council of Teachers of Mathematics (NCTM) Regional Conference, February 23, 1994: "Interview Results of Student Opinion and Attitudes about Mathematics, Teachers, Methods".

Research Council of Diagnostic and Prescriptive Mathematics (RCDPM) Annual Conference February 12, 1994: "Student Opinions and Attitudes Toward Teaching Methods in Developmental Mathematics Courses."

## **GRANTS & RESEARCH**

Research interests primarily include four areas: Improvement in Teacher Licensure Scores (ExCET /TExES, Praxis), Designing Effective On-line Courses for Teacher Preparation, Incorporating Adventure Education in Mathematics Education, and Including Service Components in 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.

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.

## **GRANTS & RESEARCH cont.**

WTAMU Faculty Development Grant for Summer 2000. Attending Project Adventure's "Adventure in the Classroom" course was a result of this grant.

Served as statistician and co-author for grant to the Baptist Community on Adventure Recreation and Education. Elements of this project include: Play therapy, Adventure-Based counseling, Educational intervention, and Ropes course interventions.

## **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)

Association for Experiential Education (AEE)

National Society for Experiential Education (NSEE)

## **PROFESSIONAL SERVICE**

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

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, Spring 2001.

Moderator, The Panhandle Area Science Bowl, West Texas A&M University, February 26, 2000.

Member, Board of Directors for The Heights, Greenville, SC. 1998 – Present.

## **HONORS, AWARDS AND FELLOWSHIPS**

Who's Who in America, 59<sup>th</sup> 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.