

Roger W. Abernathy, Ph.D.  
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## **EDUCATION**

AA	Three Rivers Junior College	1969
BS, Mathematics	Southeast Missouri State College	1971
MS, Mathematics	Arkansas State University	1975
PhD, Mathematics/Statistics	Clemson University	1984

## **PROFESSIONAL EXPERIENCE**

### **(1) Secondary School Mathematics Teaching:**

7<sup>th</sup>, 8<sup>th</sup> grade, Algebra I, II, Geometry, Trigonometry, Advanced Math

A. Advance, Missouri	1971-72
B. Neelyville, Missouri	1972-74
C. Weiner, Arkansas	1975

### **(2) College Mathematics Teaching**

A. Univ. Ark – Monticello, (Left to pursue Ph.D.) Elementary Algebra, College Algebra	1977-78
B. Anderson College, South Carolina (2 yr school) Replacement for maternity leave College Algebra, Trigonometry	1982
C. Raymond-Walters College of the University of Cincinnati (2 yr school) Computer Programming, Statistics, Mathematics	1982-85
D. Arkansas State University - Professor of Mathematics Elementary Algebra through graduate courses in Mathematics and Statistics	1985-2006

### **(3) Administration:**

A. High School Principal - Black Rock, AR Administrator for junior and senior high school	1976-77
B. Assistant Dean – College of Arts and Sciences Arkansas State University 150 faculty Member College with 8 departments. Duties included conflict resolution with faculty and students, grant writing for college, curriculum chair for college, maintaining college budget, and other responsibilities	1992-1995
C. Chair – Department of Computer Science and Mathematics Arkansas State University, 25 member department  Duties included evaluating faculty, maintaining department budget, scheduling, grant writing, writing accreditation reports, maintaining	1995-2001

department computer labs, and other responsibilities  
D. Dean – Division of Mathematics and Sciences 2006-present  
Orange Coast College

Orange Coast College is a 24,000 student, 8 academic division community college located in Costa Mesa, California. As Dean of the Division of Mathematics and Sciences, I oversaw and administered 8 departments with 53 full-time faculty, 80 part-time faculty, and 12 lab techs. In the fall semester of 2007, over 17,000 students were enrolled in 380 Math and Science classes. The division occupies six lab and classroom buildings and also has a Plastination Lab, a Prosection Lab, a Planetarium, and a two-acre Horticulture Garden. The operating budget for the Division of Mathematics and Sciences is over \$7,000,000 for salaries and benefits and \$320,000 for supplies and equipment. AA and AS degrees, and a Certificate of Achievement in Ornamental Horticulture are awarded in the division.

Other duties included working on OCC Master Plan; assisting with accreditation requirements such as assessment of courses and programs; ensuring reaccreditation of the Ornamental Horticulture program; using Banner as administrative software tool; working with other division deans, faculty, Vice-president of Instruction, Vice-president of Finance and Administration, and Vice-president of Student Affairs on mutual college projects.

## **PUBLICATIONS**

With R.P. Smith, "Applying Series Expansion to the inverse Beta Distribution to Find Percentiles of the F Distribution," ACM Transactions on Mathematical Software, Vol. 19, #4. December 1993

With R. P. Smith, "A Program to Calculate F Percentiles," ACM Transactions on Mathematical Software, Vol. 19, #4. December 1993

With K. Alam and C. Williams, "Multivariate Goodness-of-Fit-Tests Based on Statistically Equivalent Blocks," Communications in Statistics, Vol. 22, December 1993

"Finding Normal Probabilities with a Hand-held Calculator," Mathematics Teacher, November 1988

"A Test for Multivariate Normality," Proceedings of the Eighth Annual Conference on Applied Mathematics, University of Central Oklahoma, March 1992

With R. P. Smith, "A Series Expansion for Finding Percentiles of the t Distribution," Proceedings of the Ninth Annual Conference on Applied Mathematics, University of

Central Oklahoma, February 1993

### **OTHER RESEARCH**

With D. Ingram and A. Charles, "Results from the Teen Pregnancy and Sexually Transmitted Disease Program of St. Bernard's Regional Medical Center," December 1998

Statistical Analyst for Biomed Personal Metabolic and Nutritional Testing, Inc. for FDA approval of a fluid transport system. FDA approval was awarded in October, 2003.

### **GRANTS**

Project Director for Southwestern Bell Foundation Minority Internship Program in Mathematics and Sciences, \$100,000, Summers 1993, 1994. Six week program for 20 minority high school students to come to Arkansas State University campus to study under the supervision of professors in Biology, Chemistry, and Computer Science.

NASA/JOVE - Project Director for professors in Biology, Chemistry, and Engineering to perform NASA related research. \$400,000, 1992-95

Establishment of a Multimedia Classroom, Arkansas Department of Higher Education grant. Project Director. \$75,000, 1994-95

With T. Bishop, Arkansas Mathematics-Science Crusade, NSF grant to improve public school mathematics instruction.

Arkansas Space Grant Consortium, 2 grants: (1) Enhancement of aerospace research and education in the ASU College of Arts and Sciences (\$5,949), and (2) Mentoring a graduate student, Mr. Barry Showalter, doing research on wavelets (\$10,500).

With T. Bishop, Leadership for the Statewide Mathematics and Science Initiative, \$45,238, awarded by the Arkansas Department of higher Education to observe secondary school mathematics teachers in the classroom.

Project Director, with Dr. Cynthia Miller, Middle School Mathematics Teacher Enhancement Program, \$100,000 per year for 2004-07.

## **PROFESSIONAL REFERENCES FOR**

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