



Curriculum Vitae

Thomas E. Price
Professor Emeritus, Applied Mathematics
The University of Akron

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PERSONAL DATA:

- Born December 10, 1944 in Sandersville, GA
- Married to Judith Palagallo-Price (No children)
- Citizen of the United States
- Member of First Assembly of God, Akron, OH

EDUCATIONAL BACKGROUND:

- The University of Georgia Athens, GA 1976 (Ph.D./Mathematics)
- The University of Georgia Athens, GA 1969 (M.S./Mathematics)
- The University of Georgia Athens, GA 1967 (B.S./Mathematics)
- Gordon Military College, Barnesville, GA 1965 (Military Science)

MILITARY EXPERIENCE:

1969 -1971 First Lieutenant, Corps of Engineers, United States Army, served in Viet Nam.

PROFESSIONAL EXPERIENCE:

- 2007 – Owner, *SiTeX*, www.sitextools.com
- 2006 – Professor Emeritus, Applied Mathematics, The University of Akron
- 2007 – 2008 Volunteer tutor, Project Grad, Akron Public Schools
- Fall 2006 Volunteer teacher, Vienna Christian Center, Vienna Austria
- 2000 - 2006 Professor of Applied Mathematics, Department of Theoretical and Applied Mathematics, The University of Akron, Akron, OH
- Fall 2002 Visiting Scholar, Department of Mathematics, Cornell University, Ithaca, NY
- 1987 – 2000 Professor, Department of Mathematics and Computer Science, The University of Akron, Akron, OH
- 1993 – 1994 On professional leave, visiting Professor, Colorado State University, Ft. Collins, CO.
- 1987 – 1993 Professor, Department of Biomedical Engineering, The University of Akron, Akron, OH.
- 1988 – 1989 Acting Director, Biostereometrics Laboratory, Akron City Hospital, Akron, OH.
- 1984 – 1991 Research Associate, Biostereometrics Laboratory, Akron City Hospital, Akron, OH.
- 1981 – 1987 Associate Professor, Department of Mathematical Sciences, The University of Akron, Akron, OH.
- 1984 – 1987 Associate Professor, Department of Biomedical Engineering, The University of Akron, Akron, OH.
- 1985 – 1986 On professional leave, visiting Associate Professor, Department of Mathematics and Institute for Constructive Mathematics, The University of South Florida, Tampa, FL.
- 1983 – 1984 On professional leave, visiting Associate Professor, Department of Mathematics and Institute for Computational Mathematics, Kent State University, Kent, OH.
- 1976 – 1981 Assistant Professor of Mathematics, Department of Mathematics, The University of Akron, Akron, OH.

AWARDS:

1. Ohio Section Mathematical Association of America award for outstanding teaching, 2006
2. Chairs' Award for Outstanding Teaching, 2004
3. The University of Akron Outstanding Teaching Award, 2005
4. Buchtel College of Arts And Sciences Teaching Award, 2005
5. Northeast Ohio Council on Higher Education Teaching Award, 2005

BOOKS:

1. Curious Curves, (with Richard B. Darst and Judith Palagallo), World Scientific, October 2009 (in press).
2. LaTeX Quick Start, (with Lance Carnes) PCTeX (includes training videos), in preparation.

SCHOLARLY PUBLICATIONS: (* = publications with students)

1. "An Online Registration System for Section Meetings" (with G. Jay Kerns, Jonathan Duran, and D. P. Story), MAA FOCUS, March 2008.
2. "Generalizations of the Koch curve", Fractals, Vol. 16(3), 2008, pp. 267-274.
3. "Products of lengths of line segments", The Mathematical Gazette, Vol. 90(517), 2006, pp. 13-20.
4. "Products of elliptical chord lengths and the Fibonacci numbers", Fibonacci Quarterly, Vol. 43(2), 2005, pp. 149-156.
5. *Outer boundaries of self-similar tiles, (with S. Drenning, et al), Experimental Mathematics, Experimental Mathematics, Vol. 14(2), 2005, pp. 199-210.
6. *Online Trigonometry Flash Cards, (with Katie Jones and Don Story), Mathematics in School, Vol. 33, 2004, pp. 8-12.
7. "Products of chord lengths of an ellipse", MATHEMATICS MAGAZINE, Vol. 75(4), 2002, pp. 300-307.
8. "A trigonometry tutorial on the World Wide Web", published on Oct. 26, 1998 and Oct. 30, 2001.
9. "Fractal tilings in \mathbf{R}^2 " (with J. Palagallo and R. Darst), MATHEMATICS MAGAZINE, Vol.71(1), 1998, pp. 12-23.
10. "On the computation of $\int \frac{dt}{t^m + 1}$ " (with J. Palagallo), MATHEMATICS MAGAZINE, Vol. 70(1), 1997, pp. 59-63.
11. *"Use of biostereometric analysis as a prescreen for breast cancer" (with D. B. Sheffer, et al.), Investigative Radiology, Vol. 26(6), 1991, pp. 528-533.
12. *"Breast volume measurement of 598 women using biostereometric analysis" (with D. B. Sheffer, et al.), Annals of Plastic Surgery, Vol. 22(5), 1989, pp.380-385.
13. *"Biostereometric analysis of a female breast for breast cancer detection" (with D. B. Sheffer, et al.), Journal of Biomedical Engineering, Vol. 10, 1988.

14. "Properties of projections obtained by averaging certain polynomial interpolants" (with J. Palagallo), Approximation Theory, Tampa, (Lecture Notes in Mathematics, 1287, E. B. Saff, Ed.) Springer-Verlag, 1987, pp. 132-145.
15. "Pointwise error estimates for interpolation", Journal of Computational and Applied Mathematics, Vol. 19, 1987, pp. 389-393.
16. *"Breast volume measurement of 248 women using biostereometric analysis" (with C.W. Loughry, et al.), Plastic and Reconstructive Surgery, Vol. 80, 1987, pp.553-557.
17. "Near-best approximation by averaging polynomial interpolants" (with J. A. Palagallo), IMA Journal on Numerical Analysis, Vol. 7, 1987, pp. 107-122.
18. "Right and left breast volume distribution comparison in normal and tumor-containing breasts" (with D. B. Sheffer, et al.), Cancer Detection and Prevention, Vol. 10, 1987, pp. 215-221.
19. *"Validity and reliability of biostereometric measurement of the human female breast" (with D. B. Sheffer, et al.), Annals of Biomedical Engineering, Vol. 14, 1986, pp.1-14.
20. "Quadratures which possess interpolatory and minimum norm properties" (with P. H. Finney), SIAM Journal on Numerical Analysis, Vol. 14, 1986, pp. 210-216.
21. "Reliability of a photogrammetric determination of the breast-thorax boundary" (with A. Loughry, et al.), Biostereometrics '85, A. M. Coblenz, R. E. Herron, eds., Proceedings SPIE, Vol. 602, 1986, pp. 196-203.
22. "Monte Carlo simulation of numerical integration" (with D. P. Story), Journal of Statistical Computation and Simulation, Vol. 23, 1985, pp. 97-112.
23. "Walsh over convergence and polynomial averages in z and z^{-1} ", Houston Journal of Mathematics, Vol. 11, 1985.
24. "Extensions of a theorem of J. L. Walsh", Journal of Approximation Theory, Vol. 43, 1985, pp. 140-150.
25. "Numerical approximation of analytic functions in the complex domain", Journal of Computational and Applied Mathematics, Vol. 6, 1980, pp. 177-182.
26. "Orthogonal polynomials for nonclassical weight functions", SIAM Journal on Numerical Analysis, Vol. 16, 1979, pp. 999-1006.
27. "Cubature error bounds for a class of analytic functions", SIAM Journal on Numerical Analysis, Vol. 13, 1976, pp. 227-237.

RECENT STUDENT PROJECTS DIRECTED:

1. Online Evaluation System, Jeromie Walter's masters project (2005).
2. Properties of Generalized Fibonacci Polynomials, Lori McDonnell's honors project (2005).
3. Online registration system, Christina Ranjin's masters project (2004).
4. Generalized Fibonacci and Complexonacci Polynomials, Coral Wheeler's honors project (2004).
5. Some Remarks on the Evaluation of an integral, Ben Polovick, McNair Scholar (2003).
6. Online trigonometry flash cards, Katie Jones' honors project (2003).
7. A new approach to the Euler-Maclaurin Summation Formula, Kara Garrison's honors project (2000).

GRANTS AND CONTRACTS:

1. Grant proposal submitted to NSF (PI): REU Site: Undergraduate Research in Mathematics (Algebra, Number Theory and Applications) (Funded for three years beginning 2005).
2. A trigonometry tutorial for the World Wide Web, Teaching Excellence Grant, Summer 1998, \$5500 (plus a \$3000 supplement from the Buchtel College of Arts and Sciences).
3. Workshop for EXP, the scientific word processor, Educational Research and Development Center, March 1996, \$750.
4. The effects of class size on undergraduate mathematics education, Educational Research and Development Center, July 1993, \$660.
5. Implementing software to be used in the biostereometric detection of breast cancer, Akron city Hospital Foundation, September 1989, \$6,000.
6. Developing software to be used in the biostereometric detection of breast cancer, Research Challenge Enhancement Grant, June 1989, \$10,180.
7. Biostereometric breast cancer detection of tumors less than one centimeter (with C. W. Loughry, MD), Akron City Hospital Foundation, 1989, \$84,098.
8. Application of biostereometric breast volume determination to breast augmentation and reconstruction (with L. Cervino, MD), Akron City Hospital Foundation, 1989, \$34,707.
9. On the use of Shape analysis and computer graphics techniques for breast cancer detection (with C. W. Loughry, MD), Akron City Hospital Foundation, 1988, \$59,653.80.
10. Faculty Summer Research Fellowship, The University of Akron, Akron, OH, 1987, \$4000.
11. Biostereometric analysis in breast cancer detection (with C. W. Loughry, MD), Akron City Hospital Foundation, 1986, \$99,967.22.
12. Biostereometric breast cancer detection (with C. W. Loughry, MD), Knight Foundation, 1984, \$100,000.
13. Faculty Summer Research fellowship, The University of Akron, Akron, OH, 1985, \$3500.
14. Biostereometric analysis in breast cancer detection (with C. W. Loughry, MD), Akron City Hospital Foundation, 1982, \$360,610.28.
15. Faculty Summer Research Fellowship, The University of Akron, Akron, OH, 1981, \$3500.

CONFERENCES AND SPECIAL SESSIONS ORGANIZED:

1. Special Session on the Fibonacci Numbers, MAA Ohio Section Meeting, Spring 2004.
2. Associate coordinator for the MAA Ohio Section Meeting, The University of Akron, Akron, OH, Fall 1996.
3. Program Chairman for Sigma Xi, The University of Akron, 1991-1992.
4. Co-coordinator of a special session on numerical analysis, Ohio Section Meeting, MAA (Fall 1991).
5. Co-coordinator of the Southeast Approximators' Conference, The University of South Florida, Tampa, FL (April 17-19, 1986).

6. Coordinator of the Special Session on Scientific Computing, Ohio Section Meeting, MAA (Spring 1985).

PRESENTATIONS: (*= invited)

1. *"Undergraduate Research Programs", Clarion University of Pennsylvania, Nov. 16, 2007.
2. *"Approximating sums of infinite series", MAA Ohio Section, Fall 2007.
3. "The Fibonacci Forum", MAA Ohio Section, Spring 2004.
4. "Mastering Scientific WorkPlace using online instruction", MAA Ohio Section Meeting, Spring 2004.
5. "Characterizing fractals with radial symmetry II", Joint AMS, MAA meeting, San Diego, 2002
6. "Characterizing fractals with radial symmetry", Joint AMS, MAA meeting, New Orleans, 2001.
7. * "On the use of technology in the classroom", MathFest, UCLA, 2000
8. * "Scientific Workplace", Project NExT, Ohio Section of the MAA, 2000
9. * "WebTrig" (A trigonometry tutorial for the World Wide Web), Ohio Section of the Mathematical Association of America, Columbus, OH, Fall 1998.
10. "On the use of calculators in calculus courses II", Ohio Section of the Mathematical Association of America, Cleveland, OH, Spring 1998.
11. "Product lengths of chords of an ellipse", Ohio Section of the Mathematical Association of America, Portsmouth, OH, Fall 1997.
12. "On the use of calculators in calculus courses",
 - a. Ohio Section of the Mathematical Association of America, Granville, OH, Fall, 1996
 - b. The Joint Meeting of the Mathematical Association of America and The American Mathematical Society, San Diego, CA, January 1997.
13. "Fractal tilings of the plane", The Joint Meeting of the Mathematical Association of America and The American Mathematical Society, San Francisco, CA, January 1995.
14. "Computing the digits of π ",
 - a. Pi Mu Epsilon Student Conference, Oxford, OH, Fall 1994.
 - b. Ohio Section of the Mathematical Association of America, Columbus, OH, Spring 1995.
15. "A history of π ",
 - a. * Pi Day, The University of Akron, Akron, OH, Spring 2002
 - b. * Greenslopes colloquium, Ft. Collins, CO, Fall 1993.
 - c. * Colorado State University Mathematics Colloquium, Ft. Collins, CO, Fall 1993.
 - d. The University of Akron Mathematics Colloquium, Akron, OH, Fall 1992.
16. "Properties of an interpolant in z and z^{-1} on an annulus", The 7 International Symposium on Approximation Theory, Austin, TX, Spring 1992.
17. "Contributions of mathematics and mathematicians to computer science",
 - a. The University of Akron Mathematics Colloquium, Akron, OH, Spring 1991.
 - b. * The University of Akron Honors Colloquium, Akron, OH, Fall 1990.
18. "Pointwise error estimates for interpolation",

- a. Ohio Section of the Mathematical Association of America, Toledo, OH, Spring 1987.
- b. Constructive Function Theory Conference, Edmonton, Alberta, Canada, Summer 1986.
19. * “Near-best approximation by averaging polynomial interpolants”, Ohio Section of the Mathematical Association of America, Bowling Green, OH, Spring 1984.
20. “Walsh over convergence - a unified approach”, The Joint Meeting of The Mathematical Association of America and The American Mathematical Society, Louisville, KY, January 1984.
21. * “Biostereometric measurement of the human female breast”, Ohio Northern University, Ada, OH, Fall 1984.
22. “On Walsh over convergence”, The Joint Meeting of The Mathematical Association of America and The American Mathematical Society, Denver, CO, January 1983.
23. “The numerical approximation of analytic functions with a finite number of poles”, The Joint Meeting of The Mathematical Association of America and The American Mathematical Society, San Francisco, CA, January 1981.
24. “The numerical approximation of analytic functions”,
 - a. The Workshop on Computational Complex Analysis, Stanford University, Stanford, CA, Fall 1981.
 - b. Ohio Section of The Mathematical Association of America, Springfield, OH, Spring 1980.
25. “Orthogonal polynomials for non classical weight functions”, Ohio Section of The Mathematical Association of America, Ada, OH, Fall 1979.

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

- Mathematical Association of America
- American Mathematical Society