

David L. Egle

Department of Computer Science
University of Texas Rio Grande Valley
Edinburg, TX 78539-2999
956 - 665-3518
david.egle@utrgv.edu

I. EDUCATION

Add'l grad hrs University of Texas – Pan American, Computer Science
ABD Texas A&M University, Mathematics, (Statistics minor)
M. S. Texas A&M University, Mathematics, (Computer Science minor)
B. S. Pan American University, Physics & Mathematics

II. EMPLOYMENT HISTORY

2015 – present Senior Lecturer, Department of Computer Science
University of Texas Rio Grande Valley, Edinburg, TX
2013 – 2015 Senior Lecturer, Department of Computer Science
University of Texas – Pan American, Edinburg, TX
1994 – 2013 Lecturer, Department of Computer Science
University of Texas – Pan American, Edinburg, TX
1993 – 1995 Network Manager, College of Liberal Arts
University of Texas – Pan American, Edinburg, TX
Summer 1990 Security Analyst, Computer Center
University of Texas – Pan American, Edinburg, TX
Summer 1988 Systems Analyst, Computer Center
University of Texas – Pan American, Edinburg, TX
1983 – 1994 Lecturer, Department of Mathematics and Computer Science
University of Texas – Pan American, Edinburg, TX
1975 – 1983 Teaching and Research Assistant, Mathematics Department
Texas A&M University, College Station, TX
1978 – 1983 Department Computer Lab Manager, Mathematics Department
Texas A&M University, College Station, TX
1978 – 1983 Consultant, Applied Scientific Research,
Bryan, TX
1974 – 1975 Teaching Assistant, Department of Physics
Pan American University, Edinburg, TX

III. GRANTS AND FUNDED PROJECTS

Received \$1,500 from RackSpace (San Antonio) and \$1,500 from AMD to support the activities of the ACM Student Chapter for 2011-2012. I am the ACM Chapter faculty advisor and facilitated the work to receive these funds.

Received \$6,000 from Wal-Mart to sponsor the 2011 Annual Computer Science Research Day, April 25, 2011. I am the ACM Chapter faculty advisor and facilitated the work to receive these funds.

Received \$400 from Xerox Corporation to sponsor the 2011 Annual Computer Science Research Day, April 25, 2011. I am the ACM Chapter faculty advisor and facilitated the work to receive these funds.

Received \$6,000 from Wal-Mart to sponsor the 2010 Annual Computer Science Research Day, April 19, 2010. I am the ACM Chapter faculty advisor and facilitated the work to receive these funds.

Received \$400 from Xerox Corporation to sponsor the 2010 Annual Computer Science Research Day, April 19, 2010. I am the ACM Chapter faculty advisor and facilitated the work to receive these funds.

Received \$500 from CASHI (Computing Alliance of Hispanic Serving Institutions) to sponsor the 2010 Annual Computer Science Research Day, April 19, 2010. I am the ACM Chapter faculty advisor and facilitated the work to receive these funds.

Faculty Research Grant of \$800, with W. Watkins, to investigate the chaotic properties of irrational numbers, 1990-1991.

IV. AWARDS

2011 – Outstanding Faculty Award, presented by Computer Science Students as part of National Engineers Week

2010 – Outstanding Achievement Award, presented by ACM Student Chapter at the Computer Science Student Research Day

2009 – Outstanding Faculty Award, presented by Computer Science Students as part of National Engineers Week

2008 - Award for dedication and outstanding service as a professor, presented by ACM Student Chapter at the Computer Science Student Research Day

V. PROFESSIONAL DEVELOPMENT

Conferences:

2014 Oct 17-18: Association for Computer Educators in Texas, 50th Annual Conference, San Antonio, TX

2011 Oct 6-8: Association for Computer Educators in Texas, 47th Annual Conference, Addison, TX

2010 Oct 7-9: Association for Computer Educators in Texas, 46th Annual Conference, League City, TX

2010 Apr 23-24: Consortium for Computing Sciences in Colleges - South Central Conference 2010, Austin, TX

2009 Oct 8-10: Association for Computer Educators in Texas, 45th Annual Conference, Corpus Christi, TX

Courses taken:

Seminar on Artificial Life, Spring 2010

Bioinformatics, Fall 2009

Advanced Database Design and Implementation, Spring 2009

Advanced Computer Graphics, Fall 2008

Advanced Computer Architecture, Spring 2008

Advanced Operating Systems, Fall 2007

Design and Analysis of Algorithms, Spring 2007

Theoretical Foundations of Computing, Fall 2006

VI. PUBLICATIONS

Watkins, W. T. & Egle, D. L. (1991). Discovering Fractals. *The AMATYC Review*, Spring 1991.

Bryant J, Guseman LF, Jr., Egle DL: Analysis of FCM-derived DNA histograms. *Flow Cytometry IV*: 138-142, 1980.

Bryant J, Guseman LF, Jr., Egle DL: Sequential-Analysis of FCM-derived DNA histograms. *Flow Cytometry IV*: 143-146, 1980.

VII. PROFESSIONAL SOCIETIES

- American Mathematical Society (1977 – 1995)
- Association for Computing Machinery (1985 – present)
- Association for Computer Educators in Texas (2009 – present)
- IEEE Computer Society (1990 – 1997)
- Mathematical Association of America (1983 – 1995)

VIII. UNIVERSITY SERVICE

University of Texas – Pan American, University Committees

- Dean Search - College of Engineering and Computer Science, 2013
- COSE Safety Committee, 2000-2003
- UTPA SACS Self Study, Physical Resources Committee, 1994-95
- Academic Services Building Planning Committee, 1990-91

Department Committees (prior to 1996, Mathematics and Computer Science)

- Faculty Evaluation (formerly Merit) Committee, (almost every year since 1985)
- Undergraduate Curriculum Committee, member, 1985-present
- Facilities Committee, 1994-present
- Faculty Chair Search Committee, 2002-2003
- Faculty Search Committee, (many)
- Faculty Advisor – Student Chapter of ACM, 1987-present

IX. COURSES TAUGHT

Computer Science

- 1201 – Introduction to Computer and Information Technology
- 1300 – Foundations of Modern Information Technology
- 1370 – Engineering Computer Science I
- 1380 – Computer Science I
- 2320 – Programming in a Second Language (C++)
- 2325 – Survey of Elementary Scientific Programming (FORTRAN)
- 2330 – C++ Programming
- 2333 – Computer Organization and Assembly Language
- 2344 – Programming in the UNIX™ / Linux Environment
- 3310 – Discrete Data Structures
- 3330 – Introduction to UNIX™
- 3334 – Systems Programming
- 3336 – Organization of Programming Languages
- 3350 – Numerical Methods
- 3390 – Practicum in Computer Science
- 4334 – Operating Systems
- 4335 – Computer Organization
- 4345 – Computer Networks (as a topics course)

Mathematics

- 1300 – Elementary Algebra
- 1320 – Business Algebra
- 1321 – Business Calculus
- 1334 – Intermediate Algebra
- 1340 – College Algebra
- 1357 – Precalculus
- 1401 – Calculus I

1402 – Calculus II
3368 – Numerical Methods

X. MISCELLANEOUS

Computer languages used:

FORTRAN (1st language learned), Algol, APL, various assembly languages (DEC System 10, IBM mainframe, MOStech 6502, PDP-11, VAX, Intel 80x86), BASIC (PDP-11 RT11 based, DEC System 10, and microcomputers), C, C++, COBOL, Forth, LISP, LOGO, Pascal

Undergraduate research

Worked with Dr F Glaser (PAU Dept of Physics) on modeling nuclear reactions – wrote FORTRAN program (not sure if or where a copy exists)

Graduate research at TAMU

Worked with Dr L F Guseman and Dr J Bryant on several NASA grants, writing and documenting routines for the NASA mathematics library

Worked with Dr L F Guseman and Dr J Bryant on programs to analyse satellite imagery to detect crops

Worked with Dr L F Guseman and Dr S C Barranco (UTMB-Galveston) on equipment and programs to analyze data from cancer research

Other work at TAMU

Served as systems manager for the PDP 11/34 owned by the Department of Mathematics (1978-1983)

Installed and managed one of the first UNIX systems at TAMU (1979)

Assisted the faculty in the Department of Mathematics with computer software/hardware problems

Built, with Dr L F Guseman, a minicomputer (based on PDP 11/03); developed software (in FORTRAN and assembly language) for a plotter attached to this system

Work at UTPA

Worked with personnel in UTPA computer center on systems related problems on many occasions

Together with other faculty in the department, received a grant from AT&T of two AT&T 3B2 UNIX computers (1986)

As part of the grant, was sent to Sunnyvale, CA, to receive training on system administration of the 3B2 computers (1987)

Managed the 3B2 computer lab (1987 – 1995)

Talked UT-Austin into donating 14 ATT UNIX PCs to add to our lab (1988)

With Dr X Meng and Dr R Fox, acquired Sun workstations for the lab

While working for UTPA computer center, developed several programs (still in use) for systems administration

Designed network systems for the Nursing building and the old Mathematics building

Coursework

Developed and taught first network course taught at UTPA

Developed and taught first course in UNIX taught at UTPA

Developed and taught first course in Linux taught at UTPA

Developed a simulation environment for the SIC computer described in the textbook by Leland Beck, *Systems Programming*, for use by students in the class

Written many example programs in various languages for students to examine

Written documents for students on how to use MASM, DOS, Visual Studio