

# Pearl W. Brazier

## Associate Professor

Department of Computer Science  
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### EDUCATION

- Ph D. Program University of Texas – El Paso, El Paso Texas, Software Engineering, 2002-present.  
Completed all coursework. Dissertation remaining.
- M.S. Virginia Polytechnic Institute and State University, Blacksburg, VA, Computer Science and Applications, 1981.
- M.S. The Ohio State University, Columbus, OH, Mathematics, 1971.
- B.S. Millersville State College, Millersville, PA, Education with Mathematics Major, 1966.

### PROFESSIONAL EXPERIENCE

- 2008 - Present University of Texas - Pan American, Department Computer Science, Edinburg, TX, Associate Professor Undergraduate Program Coordinator, Director of Computer Engineering Program.
- 2001 - 2008 University of Texas - Pan American, Department Computer Science, Edinburg, TX, Associate Professor Undergraduate Program Coordinator.
- 1995 - 2001 University of Texas - Pan American, Department Computer Science, Edinburg, TX, Department Chairperson.
- 1995 - Present University of Texas - Pan American Graduate Faculty
- 1995 - 2001 University of Texas - Pan American, Department Computer Science, Edinburg, TX, Assistant Professor.
- 1984-1995 University of Texas - Pan American, Department of Mathematics and Computer Science, Edinburg, TX, Assistant Professor and Director of the Computer Science Program.
- 1981-1984 University of Texas - Pan American, Department of Mathematics and Computer Science, Edinburg, TX, Lecturer

### PUBLICATIONS and PRESENTATIONS

- Brazier, Pearl, Chebotko, Artem, Gates Ann Q., Piazza, Anthony, and Salayandia, Leonardo. (2009) “Web 2.0 and Semantic Web Portal for Annotation and Discovery of Web Services in Geosciences”, Presented and published in 2009 International Conference on Semantic Web and Web Services (SWWS 2009), Las Vegas, Nevada, July 13-16, CSREA Press, USA.
- Brazier, Pearl, Chebotko, Artem, Gates Ann Q., and Salayandia, Leonardo. (2009) “GEO-SEED: A Metadata Repository for Geosciences Web Service Discovery”, Presented and published IEEE 2009 Third International Workshop on Scientific Workflows (SWF 2009), Los Angeles, CA., July 6-10.
- Brazier, Pearl,, Garcia, Alejandro, and Vaca, Abel. (2007) “A Software Engineering Senior Design Project Inherited From a Partially Implemented Software Engineering Class Project”, Presented and published in Proceedings of 37<sup>th</sup> ASEE/IEEE Frontiers in Education Conference, Milwaukee, WI., October 10-13.
- Brazier, Pearl, and Harlow, Charles (2007) “Development of a Cooperative Interdepartmental Computer Engineering Program”, The 2007 ASEE-GSW Annual Conference, South Padre Island, TX, March 28-30.

- Brazier, Pearl, Villalobos, María Cristina, Taylor, Monty B., Basu, Kanadpriya, and Sircar, Treena (2006) A Cross-Disciplinary Software Engineering Project Implemented as a Web Service, *9<sup>th</sup> International Conference on Engineering Education*, <http://fie.engrng.pitt.edu/icee2006/> ISBN for the ICEE 2006 program book is 1-58874-648-8, CD is 1-58874-649-6
- Brazier, Pearl, Grabowski, Laura, and Dietrich, Gustavo (2003) Closing The CS I - CS II Gap: A Breadth-Second Approach, *ASEE/IEEE 2003 33th ASEE/IEEE Frontiers in Education Conference Proceedings*, IEEE: Piscataway, NJ, 08855-1331, ISBN: 0-7803-7961-6. pp. T3C18 –22.
- Brazier, Pearl (2000) Using High-Level Tools to Implement Software Engineering Projects, *ASEE/IEEE 2000 30th ASEE/IEEE Frontiers in Education Conference Proceedings*, 2000 IEEE: Piscataway, NJ, 2000, ISBN: 0-7803-6424-4. pp. T2C14-17.
- Fox, Richard K. & Brazier, Pearl W., *Startup: Understanding Application Software*, Second Edition, and McGraw-Hill Inc. College Custom Series, 2000.
- Nelson, Michael L., Meng, Xiannong, & Brazier, Pearl, (1999). CS I: Language and Paradigm Issues, *1999 AoM/IAoM PROCEEDINGS: Computer Science 17<sup>th</sup> Annual International Conference* The Association of Management and the International Association of Management, Maximilian Press Publishers, 1999, pp. 353-357.
- Brazier, Pearl W., (1998) Process and Product in a Software Engineering Course: Simulating the Real World, *ASEE/IEEE 1998 28<sup>th</sup> Annual Conference on Frontiers in Education (FIE) Proceedings*, IEEE: Piscataway NJ, pp. 1292-1297.
- Brazier, Pearl W., (June 1998). Panelist: Developing Masters and Ph. D. Programs at Minority Institutions, SC-COSMIC 98 Steering Minority Education for the 21<sup>st</sup> Century Conference Final Report, Rice University-Houston TX, Funded by the US Army Research Laboratory, and National Science Foundation (Abstract).
- Fox, Richard K. & Brazier, Pearl W., *StartUp: Understanding Application Software*, McGraw-Hill Inc. College Custom Series, 1998.

## GRANTS

- 2009 Pearl Brazier and Artem Chebotko, National Center for Women & Information Technology (NCWIT) Seed Fund Award, “Dancing Robots Introduction to Computer Science”, \$15,000.
- 2006 UTPA Faculty Development Funds Program, \$2000.
- 2003 Microsoft Grant to Department for Undergraduate Research, \$8,000.
- 2002 Microsoft Grant to Department for Undergraduate Research, \$7,500.
- 2001 Educators’ Grant Program (\$1250), June 1999, to attend ADM SIGPLAN 2001 Conference on Programming Language Design and Implementation, Snowbird, Utah.
- 2000 Zhixiang Chen, Richard Fox, Xiannong Meng, and Pearl Brazier, Microsoft-UTPA Computer Science and Information Technology Training Program, The HACU/Microsoft Institutional Development Grant, \$40,000 plus software to support Scholarships, Mentoring and Community Outreach to Increase Retention and Recruitment. Awarded Feb. 2000.
- 1999 Pearl Brazier, Richard Fox, Xiannong Meng, and Zhixiang Chen, Establish an Intel Systems Laboratory and Augment Existing Advanced Studies Laboratory in Department of Computer Science to Intel Corporation, funded (\$76,641), includes 30 Pentium III computers plus software donation, April 1999.
- 1999 Ed LeMaster, Richard Fowler, and Pearl Brazier, The University of Texas-Pan American - GE Scholars Program \$75,000 grant to support Mentoring and Community Outreach to Increase Retention and Recruitment. July 1999.

## AWARDS

- Who’s Who Among America’s Teachers, 2006.
- Partners in Excellence – UTPA Career Placement services, Faculty of the Year , 2001
- COSE Outstanding Teaching Award, University of Texas-Pan American, 2000.
- UTPA Outstanding Faculty Award for Service, University of Texas-Pan American, 1997.

## **PROFESSIONAL SERVICE**

### **Administrative Duties:**

From September 1995 until August 2001, I served as chair of the Department of Computer Science. Since 1983, I have built and directed the Computer Science Program in the combined Mathematics and Computer Science Department from its beginning with myself holding the only degree in Computer Science to a state with ten faculty, attaining departmental status, Fall 1995. As department chair I was in charge of scheduling, curriculum development, recruitment and hiring of faculty, and have made recommendations for budgeting and planning for equipment. With Richard Fowler I helped develop and gain approval for the M.S Program in Computer Science, which began Fall 1996. More recently I also made a significant contribution into the research into the broader area of Information Technology and contributed to gaining approval for a new track and degree Masters of Science in Information Technology (MSIT) to our master's offerings. I am the designated primary contact FOR and director of the ABET/CAC accreditation for the Computer Science BSCS degree. I currently serve as the Undergraduate Program Coordinator for the Department and Director of Computer Engineering Program, delivered jointly by the Department of Computer Science and the Department of Electrical Engineering.

### **Professional**

- 1998-2006 Computing Sciences Accreditation Commission (CAC) Program Evaluator (Site Visits 1998, 1999, 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009)
- 2000 Computing Sciences Accreditation Commission (CSAC) Program Evaluator Training for CSAC/CSAB/ABET New guidelines. March.

### **University Level**

Have served on UTPA Admissions Committee, University Curriculum Committee, Ad Hoc Committee on Admissions Administration, Senate *Ad Hoc* Committee Summer Department Chair Compensation, UTPA Strategic Planning Committee, chair 1994-1997, and Teacher Education Committee.

### **College of Science and Engineering**

Served on Tenure and Promotion and Annual Review committees. Served on joint committee of Computer Science and Electrical Engineering Departments for proposed Computer Engineering Degree in which I played a key role in the curriculum development.

### **Departmental Level**

Served on Graduate and Undergraduate Curriculum, Undergraduate Scholarship, Tenure and Promotion, Annual Review, and various other departmental committees.

### **Other**

Established The Computer Science Advisory Council with national and local cooperate representation, Spring 1999. Served as Executive Secretary of Advisory Council and largely responsible for planning meetings held Fall and Spring of each year 1999-2001. Established Women In Computer Science Annual Luncheon to encourage women to stay in the field. Actively participate in UTPA Career Days to support Placement and Internships for Computer Science Students. Actively Participated in UTPA Recruitment and Orientation. Supervise all Computer Science Interns taking course credit.