

Elizabeth Anne Gates Applin

Ithaca College
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BIOGRAPHICAL DATA

Birth Date: February 6, 1957
Place of Birth: Gulfport, Mississippi
Citizenship: United States

EDUCATIONAL BACKGROUND

UNIVERSITY OF SOUTHERN MISSISSIPPI (*Hattiesburg, Mississippi*) 1995 - 1999
Ph.D. December 1999
Computer Science Education
Dissertation: *The application of language acquisition theory to programming concept instruction: chunks versus programs from scratch.* Hugh P. Garraway III advisor.
Minor emphasis in Computer Engineering Technology: focusing on networking.

UNIVERSITY OF SOUTHERN MISSISSIPPI (*Hattiesburg, Mississippi*) 1992 - 1994
Master of Science, August 1994
Computer Science
Master's Project: *An expert system room reservation system.* Ralph B Bisland, advisor.

SOUTHEASTERN LOUISIANA UNIVERSITY (*Hammond, Louisiana*) 1988 - 1992
Bachelor of Science, May 1992
Computer Information Systems / Scientific Computing
Minor in Mathematics *cum laude*

SOUTHEASTERN LOUISIANA UNIVERSITY (*Hammond, Louisiana*) 1975 - 1978

RESEARCH APPOINTMENTS

Visiting Scholar 2000
Software Quality Research Lab at University of Tennessee Knoxville. Working on the software specification for a clean room software engineering tool called TMLE (Tiny Model Language Editor).

TEACHING APPOINTMENTS

Assistant Professor 2003 - present
Department of Computer Science, Ithaca College
Freshman level courses: Computer and Information Technology (COMP11000), Computer Science I (COMP17100).
Sophomore level courses: Advanced Web Programming (COMP20500). Ethical Issues in the Computing Field (COMP23400). Junior level courses: Computer Networking (COMP36500). Senior Projects advisor.

Instructor, Computer Science Coordinator 1994 - 2003
Department of Mathematical Sciences, Pearl River Community College.
Freshman level courses taught: Introduction to Programming I, Introduction to Programming II, Introduction to FORTRAN programming, Introduction to Computing and Business Applications. Sophomore level courses taught: Computer Science I, Computer Science II, Discrete Mathematical Structures of Computer Science. Handled course scheduling and faculty assignments and curriculum decisions for CS instructional area.

Adjunct Instructor

1993 - 1994

Department of Computer Science, Pearl River Community College.

Courses taught: Introduction to Computing.

Graduate Teaching Assistant

1992 - 1994

University of Southern Mississippi Department of Computer Science and Statistics

Duties: Graded programs, tests and final exams. Conducted Computer Science I Lab, Computer Science II Lab, and taught Introduction to Programming and Problem Solving (Junior level non-computer science majors).

PUBLICATIONS & CONFERENCE PRESENTATIONS

Holz, H., Applin, A., Joel, W. *Status Report of the Committee and Working Group on Teaching Computing Research Methods (CRM)* ACM SIGCSE Bulletin , Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education SIGCSE '07, Volume 39 Issue 1 (Conference Special Session - In Press, March 2007)

Holz, H., Applin, A., Haberman, B., Joyce, D., Purchase, H., Reed, C. Innovation and Technology in Computer Science Education (ITiCSE'06, Bologna, IT) Working Group Report: *Research Methods in Computing: What are they, and how should we teach them?* ACM SIGCSE Bulletin, Inroads Volume 38 Issue 4 pp 123-141.

Woodworth, P, Applin, A. *a Hybrid Structure for the Introductory Computers and Information Technology Course* Journal of Computing Sciences in Colleges, Volume 22 Issue 1 pp 136-144.

Applin, A., Holz, H. *The SIGCSE Committee on Teaching Computer Science Research Methods (CSRM)* ACM SIGCSE Bulletin , Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education SIGCSE '06, Volume 38 Issue 1 pp 576 (Birds of a Feather Session, March 2006)

Applin, A. G., *A Learner-Centered Approach to Teaching Ethics in Computing* ACM SIGCSE Bulletin , Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education SIGCSE '06, Volume 38 Issue 1 pp 530-534 (Presented at conference March 2006, acceptance rate 35%)

Owens, B., Applin, A. G., Abunawass, A, Baker, L, Luginbuhl, D., Way, M. *Challenges of Teaching in a Small Computing Department* Journal of Computing Sciences in Colleges, Volume 18 Issue 4 p94 (Panel Session at conference April 2003)

Applin, A. G. *Second Language Acquisition and CSI: Is * = **?* ACM SIGCSE Bulletin , Proceedings of the thirty-second SIGCSE Technical Symposium on Computer Science Education SIGCSE '01, Volume 33 Issue 1 pp 174-178 (Presented at conference February, 2001, acceptance rate 35%)

Applin, A. G. *Filling the Holes.* A research project on teaching introductory computer science presented at the annual Mid-Southeastern Chapter Conference, Gatlinburg, Tennessee November, 1997 (awarded second place in the Doctoral Paper Competition).

OTHER PRESENTATIONS

Successful Teaching: Creating Video Tutorials. Presented at the Conference on Successful Teaching. Sponsored by the Institute for Community College Development (A SUNY and Cornell University Partnership) Corning, NY October 2006

Computer Use in Chinese Schools, Report of the 1995 Computer Science Delegation of People to People International to China. Presented to the students of Computers in Education (CSS 500) at the University of Southern Mississippi, Fall 1995 and to the Mathematical Sciences Faculty at Pearl River Community College, Spring 1996.

Computer Vision. An overview of robotic vision systems presented to interested faculty members and students at Pearl River Community College, Spring 1992 as an in-service.

PROFESSIONAL DEVELOPMENT ACTIVITIES

National Science Foundation proposal review panel participant. (2 in 2000, 2 in 2001)

Compressed video instruction workshop. Pearl River Community College 1999 (12 hours)

Research Methods in Computer Science Education: Focus on Quantitative Methods. SIGCSE Technical Symposium Workshop, Atlanta, GA. March 1, 1997 (3 hours)

Active and Group Learning Techniques for Computer Science SIGCSE Technical Symposium Workshop, Atlanta, GA. February 28, 1997 (3 hours)

Collaborative Learning SIGCSE Technical Symposium Workshop, Atlanta, GA. February 27, 1997 (3 hours)

Multimedia Applications. SIGCSE Technical Symposium Workshop, Philadelphia, PA. February 18, 1996 (1 ½ hours)

People To People International Delegate to the Peoples' Republic of China. Led by Harriet Taylor, the delegation toured primary, secondary and post-secondary schools to see how the Chinese are using computers in education and exchange ideas with our foreign colleagues. October 12-28, 1995

Successful Proposal Writing for NSF Programs. SIGCSE Technical Symposium Workshop, Nashville, TN. March 3, 1995 (3 hours)

OTHER ACTIVITIES

Faculty Advisor for the Pearl River Community College student chapter of the ACM.(1996 - 2003)

Faculty Sponsor / Coach for the PRCC State Community College Programming Competition Team (1994 - 2003)

COMMITTEE MEMBERSHIPS & SERVICE

SERVICE TO THE DEPARTMENT, SCHOOL AND COLLEGE

Information Technology Planning and Advisory Committee 2007 - present
The Information Technology Planning and Advisory Committee (ITPAC) is responsible for advising the President on campus-wide information technology planning and priorities. ITPAC will be responsible for developing and maintaining a strategic information technology plan that supports the College's mission, Institutional Plan, and academic, administrative and outreach activities.

CS110 Course Revision Group 2004 - 2006
Group led by Pat Woodworth and consisting of two other CS faculty, and myself. The group is continuing to review ways to increase concept retention, facilitate learning-to-learn skills, strengthen group interaction skills, and increase the quality of in-class time-on-task hands-on learning activities. The group is developing exercises in cooperation with other H & S departments to increase student understanding of the discipline specific real-world application of course skills.

Curriculum Committee 2003 - present
Ithaca College Computer Science faculty committee of the whole working to maintain a curriculum that is in keeping with standards set by accrediting boards.

Assessment Committee 2003 - present
Ithaca College Computer Science faculty committee of the whole working to develop tools and methods to assess attainment of course goals for each course in the curriculum.

Personnel Committee 2003
Ithaca College Computer Science faculty committee of the whole

Pearl River Community College Technology Committee 1995 - 2003
This 11 member committee discusses and makes recommendations on issues that involve computing services at the community college.

Entry Level Technology Standards Committee

1999 - 2001

This committee, composed of faculties from the University of Southern Mississippi as well as faculty from several community colleges and high schools in southern Mississippi, is funded by an NSF grant to investigate reasonable expectations regarding the level of computer competency of students transferring into or entering the Education program at the University of Southern Mississippi.

SERVICE TO THE PROFESSION

Advisory Board Member

2007

The *Computing Educator's Oral History Project* is a multi-year grass roots attempt to understand diversity factors in computer science. Women and minorities are a small fraction of computer science graduates and faculty. Through collecting career stories and artifacts from a variety of computing educators, this project hopes to result in a set of tools to aid in improving the number of women and girls who work in and study computing. This work is funded through NSF grant CNS-0710536.

Co-Facilitator

2006 - present

SIGCSE committee on Teaching Computer Science Research Methods. Formation of the committee was the first step towards formalizing research methods in computer science. Work continued with a Working Group at the ITiCSE conference in Bologna, Italy (June 2006) where we began to define research methods used in various areas of computer science and formulate recommendations for curriculum guidelines for integrating research methods into both undergraduate and graduate studies.

Journal Reviewer

2004

Computer Science Education special issue on import/export relationships to computer science education research.

Journal Reviewer

2004

Psychology of Programmers Interest Group (PPIG journal)

Computing Sciences Curriculum Task Force of the ACM Two-Year College Education Committee

2001

This task force was formed to create a curriculum and articulation guide for two-year colleges in the area of computing sciences to be coordinated with the ACM/IEEE Computer Science 2001 Curriculum Report.

ACM SIGCSE 2002 Symposium Committee

2001

Community College Liaison for the 2002 conference in Northern Kentucky.

ACM Student Research Competition Reviewer

1998 - present

Volunteers at the SIGCSE conference rank and review up to 5 student research posters presented at the conference.

ASSOCIATION MEMBERSHIPS

Association for Computing Machinery (ACM)

ACM special interest group on Computer Science Education (SIGCSE)

ACM special interest group on Computers and Society (SIGCAS)

HONOR SOCIETY MEMBERSHIPS

Upsilon Pi Epsilon computer science honor society (since 1991)

Gamma Beta Phi national honor society (since 1992)