

Curriculum Vitae
Dr. E. Anne Gates Applin

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EDUCATION

- Ph.D., Computer Science Education, 1999
Doctoral minor: Computer Engineering Technology / networks
Center for Science and Mathematics Education.
University of Southern Mississippi, Hattiesburg, MS.
Dissertation: "The Application of Language Acquisition Theory to Programming
Concept Instruction: Chunks Versus Programs from Scratch,"
Hugh P. Garraway III (research director).
- M.S., Computer Science 1994
Department of Computer Science and Statistics, University of Southern Mississippi.
Master's Project: "An Expert System Room Reservation System."
Ralph B. Bisland, Jr., advisor.
- B.S., Computer Information Systems and Scientific Computing. 1992
Department of Computer Science, Southeastern Louisiana University,
Hammond, LA.

EMPLOYMENT

- Assistant Professor, Computer Science, Ithaca College. 2003 – present
Visiting Scholar, Software Quality Research Laboratory, U of Tennessee, Knoxville. 1999
Instructor, Computer Science, Pearl River Community College. 1993 – 2003
Graduate Teaching Assistant, Computer Science, U of Southern Mississippi. 1992 – 1994
Computer Operator (Undergrad student), Academic Computing, Southeastern La. U. 1989 – 1992
Data Processing Manager, Bayou Federal Credit Union. 1983 – 1987

PEER-REVIEWED PUBLICATIONS

- Applin, A.**, Holz, H., Joel, W., Okoye, I., Deibel, K., Grasser, B., Oates, B., Wood, G. Innovation and Technology in Computer Science Education (ITiCSE'07, Dundee, Scotland, UK) Working Group Report: *A Multi-Perspective Digital Library to Facilitate Integrating Teaching Computing Research Methods Across the Curriculum*. ACM SIGCSE Bulletin, Inroads 39 (4) pp. 184 - 203
- Holz, H., **Applin, A.**, Joel, W. *Status Report of the Committee and Working Group on Teaching Computing Research Methods*. Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education, 39 (1) pp. 327-328. Presented at a Special Session March 9, 2007, Covington, Kentucky, USA.
- 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 38 (4) pp. 96 - 114.
- Woodworth, P, **Applin, A.** *A Hybrid Structure for the Introductory Computers and Information Technology Course* Journal of Computing Sciences in Colleges, 22 (1) pp. 136-144.

PEER-REVIEWED PUBLICATIONS (continued)

- Applin, A.**, Holz, H. *The SIGCSE Committee on Teaching Computer Science Research Methods (CSR) ACM Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education*, 38 (1) pp. 576. Conference Birds-of-a-feather Session, March 3, 2006. Houston, Texas, USA.
- Applin, A. G.**, *A Learner-Centered Approach to Teaching Ethics in Computing* Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education, 38 (1) pp. 530-534. Conference Paper Session, March 4, 2006, Houston, Texas, USA.
- 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, 18 (4) p. 94. Conference Panel Session, April 12, 2003, Jackson, Mississippi, USA.
- Applin, A. G.** *Second Language Acquisition and CSI: Is * = = **?* Proceedings of the 32nd SIGCSE Technical Symposium on Computer Science Education, 33 (1) pp. 174-178. Conference Paper Session, February 24 2001, Charlotte, North Carolina, USA.

PRESENTATIONS, POSTERS, PANELS, TALKS, AND WORKSHOPS

- Describing the past to build for the future: The stories of CEOHP* (Poster Session) Grace Hopper Celebration of Women in Computing, October 17, 2007. Orlando, FL, USA.
- Storytelling as Role Modeling: Collecting Oral Histories*, (Workshop) Grace Hopper Celebration of Women in Computing, October 19, 2007. Orlando, FL, USA.
- The Computing Educators Oral History Project: Planning for the Future*. (Poster Session) ITiCSE'07 Innovation and Technology in Computer Science Education. Dundee, Scotland, UK.
- Successful Teaching: Creating Video Tutorials*, Conference on Successful Teaching. Sponsored by the Institute for Community College Development (A SUNY and Cornell University Partnership) October, 27 2006. Corning, New York, USA .
- An Introductory VR Course for Undergraduates Incorporating Foundation, Experience and Capstone* 36th SIGCSE technical symposium on Computer Science Education, St. Louis, Missouri, USA.
- Filling the Holes*. ACM Mid-Southeastern Chapter Conference, November 1, 1997. Gatlinburg, Tennessee, USA.
- 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 at the University of Southern Mississippi, Fall 1995 and to the Faculty at Pearl River Community College, Spring 1996.
- Computer Vision*. An overview of robotic vision systems presented to faculty members and students at Pearl River Community College, Spring 1992 as an in-service.

STUDENT CENTERED ACTIVITIES

- Invited Speaker - *Research Methods in Computer Science* REU Site: Research Experiences for Undergraduates in Virtual Reality, Visualization, and Imaging. NSF (CNS-0353687) 2004-2006, and NSF (IIS-0648211) 2007.

STUDENT CENTERED ACTIVITIES *(continued)*

Faculty Sponsor / Coach for the Pearl River Community College's State Community College Programming Competition Team (1994 - 2003 won two 1st place, a 2nd, and a 3rd).

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

Organizer for the Pearl River Community College District High School Programming Competition (TK)

GRANTS, AWARDS AND HONORS

<i>Curriculum Development</i>	Fall 2008
<i>Alice += Java.</i> Alpha test site for software and curricular materials a collaboration with Carnegie Mellon University. Released Time (3 hours) awarded from the Center for Faculty Research & Development, Ithaca College.	
<i>Special Projects Grant</i>	Spring 2008
ACM Special Interest Group in Computer Science Education, \$5,000 "Building a multi-perspective digital library to facilitate teaching computing research methods across the curriculum". Will pay an IC student \$1000 for work done in the spring.	
<i>Curriculum Development</i>	Spring 2007
<i>Development of software and course syllabus for incorporating robotics into the computer science department's research and curriculum.</i> Released Time (3 hours) awarded from the Center for Faculty Research & Development, Ithaca College.	
<i>Computing Educator's Oral History Project (Advisory Board member)</i>	2007 - present
This project is a multi-year grass roots attempt to understand diversity factors in computer science. This project is building a digital library of interviews of computing educators in an attempt to improve the number of women and girls entering computing. Funded by NSF (CNS-0710536).	
<i>Entry Level Technology Standards Committee</i>	1999 - 2001
Multi-institution committee composed of faculties from the University of Southern Mississippi, several community colleges and high schools in southern Mississippi. The group established common expectations regarding the entry level of computer competency of students transferring into, or entering the Education program at, the University of Southern Mississippi. Based on those expectations the group then developed prototypes for practical examinations on word processing, spreadsheet, and database applications. Funded by a Department of Education "Preparing Tomorrow's Teachers to use Technology" Capacity Building Grant.	
<i>Filling the Holes.</i>	1997
A research study about what student written algorithms can reveal about holes in understanding lecture topics. Awarded second place in the ACM Mid-Southeastern Chapter Doctoral Paper Competition.	
Upsilon Pi Epsilon computer science honor society.	1991- present
Gamma Beta Phi national honor society.	1992 - present
Who's Who in American Universities and Colleges	1992

PROFESSIONAL ACTIVITIES

"A Multi-perspective Digital Library to Facilitate Integrating Teaching Research Methods Across the Computing Curriculum," (ITiCSE '07 Working Group) **A. Applin** and H. J. Holz.

Paper Session Moderator: CS Education Research. ITiCSE'07

"Research Methods in Computer Science: What are they and how should we teach them?" (ITiCSE '06 Working Group) H. J. Holz and **A. Applin**.

Co-Founder and Co-chair, ACM SIGCSE Committee on Teaching Computer Science Research Methods. 2005 - present

Judge, Graduate and Undergraduate divisions, ACM Student Research Competition. 1998 – present

Journal Reviewer ACM Special Interest Group on Computer Science Education. 2007 (on-going)

Journal Reviewer Computer Science Education special issue on import/export relationships to computer science education research. 2004

Journal Reviewer Psychology of Programmers Interest Group (PPIG journal). 2004

Computing Sciences Curriculum Task Force of the ACM Two-Year College Education Committee This task force created 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 Community College Liaison for the 2002 conference in Northern Kentucky.

ACADEMIC SERVICE

Information Technology Planning and Advisory Committee 2007 - present

The Information Technology Planning and Advisory Committee (ITPAC) advises the President of Ithaca College on campus-wide information technology planning and priorities. ITPAC develops and maintains a strategic information technology plan that supports the College's mission, Institutional Plan, and academic, administrative and outreach activities.

CS Department Web Site 2007 - present

Sharon Stansfield and I designed and maintain the CS web site

Curriculum Committee 2003 - present

Ithaca College Computer Science faculty committee of the whole maintains 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 develops 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 screened 30 applicants and invited 3 finalists to visit campus, extended one offer that was accepted.

ACADEMIC SERVICE *(continued)*

Pearl River Community College Technology Committee

1995 - 2003

The president of PRCC consults with this 11 member committee on computing services.

National Science Foundation proposal review panel participant.

2 in 2000, 2 in 2001

People To People International © Ambassador

October 12-28, 1995

Our group of 36 CS educators and industrial practitioners exchanged ideas about educational uses of computers with our colleagues in Chinese schools. At each school we were given an overview of computer uses and policies and watched classrooms or laboratories full of students working on projects. The experience led to several continuing collaborations. Schools visited: No.2 Experimental Elementary School, Jingshan K-12 School, Beijing Normal University, Hangzhou Advanced High School, Zhejiang University, East China Normal University, and Yifu Vocational & Polytechnic School.

INSTRUCTIONAL EXPERIENCE

Ithaca College:

Courses taught: Computer and Information Technology, Principles of Computer Science I. Advanced Web Programming, Ethical Issues in the Computing Field. Computer Networking. Senior Projects advisor.

Courses developed: *Computer and Information Technology* (in committee) hybrid course combining on-line education with in-class projects. The course teaches problem based learning with a spreadsheet and database toolkit. In collaboration with other faculty, 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 Humanities & Sciences departments and the School of Business to increase student understanding of discipline specific real-world application of course skills.

Ethical Issues in the Computing Field The course investigates ethical decisions and alternatives through contemporary film, both full length movies and selected television episodes.

Pearl River Community College:

Courses taught: Introduction to Computing, Introduction to Programming I, Introduction to Programming II, Introduction to FORTRAN programming, Introduction to Computing and Business Applications. Computer Science I, Computer Science II, Discrete Mathematical Structures of Computer Science.

University of Southern Mississippi

Courses taught: Computer Science I Lab, Computer Science II Lab, Introduction to Programming and Problem Solving.

ADMINISTRATIVE EXPERIENCE

Pearl River Community College: Computer Science Coordinator

Duties: Coordinated curriculum for course transfer to state universities. Redesigned the dual credit course (Introduction to Computing / Introduction to Computing and Business Applications) wrote and maintained the lab manual 1995-2003 for the course. Assigned and scheduled courses for faculty and adjunct instructors. Set up and maintained two internal department network servers for instructional use - a Windows NT network and a Red Hat Linux network. Trained a part time network administrator to take over those tasks. Hired, trained and supervised 2 student assistants each semester.

WORKSHOPS & SEMINARS ATTENDED

Alice Summer Institute July 16-22, 2007
Sponsored by: Carnegie Mellon University, Pittsburgh, PA, USA

Faculty Workshop on Network Administration. July 15-19, 2002
Sponsored by the NSF (DUE-9952454) & Rockhurst University, Kansas City, MO, USA.

Compressed video instruction workshop. (1 ½ Continuing Education Credits) 1999
Pearl River Community College, Poplarville, MS, USA.

Research Methods in Computer Science Education: Focus on Quantitative Methods. March 1, 1998
SIGCSE Technical Symposium Workshop, Atlanta, GA, USA.

Active and Group Learning Techniques for Computer Science February 28, 1998
SIGCSE Technical Symposium Workshop, Atlanta, GA, USA.

Collaborative Learning February 27, 1998
SIGCSE Technical Symposium Workshop, Atlanta, GA, USA.

Multimedia Applications. February 18, 1996
SIGCSE Technical Symposium Workshop, Philadelphia, PA, USA.

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

PROFESSIONAL ASSOCIATION MEMBERSHIPS

Association for Computing Machinery (ACM). 1991 - present
ACM special interest group on Computer Science Education (SIGCSE). 1992 - present
ACM special interest group on Computers and Society (SIGCAS). 1999 - present