

Norfolk State University
Jonathan Graham
Associate Professor of Computer Science
Department of Computer Science
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Date of first employment at NSU: August 1984

Date of Present Rank or Title: August 2006

EDUCATIONAL EXPERIENCE

Doctor of Philosophy, Computer Science, 2005, University of Idaho
Advisor: Dr. James Alves-Foss.
Thesis: Efficient Allocation in Distributed Object Oriented Database Systems with Capacity and Security Constraints.

Master of Science, Computer Science, 1984, Jackson State University.
Advisor: Dr. Prem Bhalla.
Thesis: Efficient Generation of Poisson Deviates.

Bachelor of Science, Mathematics, and Computer Science, 1982, University of the West Indies.

EXPERIENCE

Teaching, Extension and Research Appointments:

- Current member of ODU/NSU INSITE IWTF grant to help in the retention of women and minorities in Computer Science (2004 - 2007).
- Research faculty on US Army Security grant. Responsible for developing intelligent software to fuse security data from several sources. The fused data will then be used to make the best possible security decisions (2005 — 2006).

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

- Computational Intelligence, Information Assurance, Distributed Databases, Computer Simulation.
- Teaching Assistant, Department of Computer Science, Jackson State University; Summer 1984.

Courses Taught:

Selected Undergraduate Courses

CSC 320: Systems Analysis and Design
CSC 360: Human Computer Interface
CSC 361: Survey of Programming Languages
CSC 369: Theory of Computation
CSC 372: Data Structures
CSC 375: File management
CSC 420: Database Systems I
CSC 422: Database Systems II
CSC 435: Computer Security I
CSC 464: Operating Systems
CSC 470: Artificial Intelligence

Graduate courses.

CSC 535 Computer Security I
CSC 564 Operating Systems
CSC 570 Artificial Intelligence
CSC 611 Computational Science I
CSC 635 Computer Security II

Curricula Developed:

B.S. Computer Science, emphasis in Information Systems
B.S. Computer Science, emphasis in Information Assurance

Certificate program for Information Assurance approved at the departmental level
Incorporated Pair programming into CSC 170 and CSC 260 classes

Courses Developed:

CSC 320: Systems Analysis and Design
CSC 350: Social Implications of Computing
CSC 369: Theory of Computation
CSC 375: File Management Systems
CSC 422: Database Systems II

Students Advised:

Academic advising

- Averaging 20-25 per year
- School of Science, Science and Technology Academicians on the Road to Success (STARS).

Student Research

- Master's Thesis Research Advising: Effectiveness of Computer Security policies on Academic campuses (Lisa Carrington, August 2006 – December 2008).
- Master's Thesis Research Advising: Data Mining techniques for Distributed Intrusion Detection Systems (Princess Jessie, August 2006 –).
- Visualizing Networking security using Multiple Security Devices (Erica Brown, January 2006 - May 2006).
- Securing a Computer Web site (Melva Edwards-Reynolds, 1997-1998).
- Design of an Arabic/Farsi Language Word-processor (Mehrdad Mahmoudi, 1993).

Honors and Awards:

Department of Computer Science Teacher of the Year 1996, 1998
AT&T award at Jackson State University, for student with highest GPA in master's program

SCHOLARSHIP ACCOMPLISHMENTS:

Selected Publications

- J.M. Graham. Security and Capacity Constraints Allocation in Distributed Object Oriented Databases, From Proceeding (574), Computational Intelligence, 2007.
- Recapturing the Interest of Females in Computer Science at Norfolk State University: Jonathan M. Graham, Cheryl V. Hinds, Mary L. Williams, ACM SIGCSE 2006
- Ph.D. Dissertation 2005, “Efficient Allocation in Distributed Object Oriented Database Systems with Capacity and Security Constraints”.
- J. Graham. “Security Constraint Allocation in Distributed Object Databases”, IC AI’03, Las Vegas Nevada, June 2003.
- J. Graham and J. Alves-Foss. “Static Allocation in Distributed Object Oriented Databases Using Genetic Algorithms”, Proceedings of the 41 ACM Southeastern Regional Conference, Savannah, Georgia, March, 2003.
- J. Graham. “Rule and Data Placement in an Object-oriented Database (Fast Abstract)”, Proceedings of the South East ACM Regional conference, Raleigh, North Carolina, 2002.
- J. Graham and C. Hinds. “Optimal Allocation of a Distributed Database using Genetic Algorithms.” Proceedings of the South East ACM Regional Conference, Mobile, Alabama, April 1999.

SERVICE:

Department of Computer Science Committees:

- ACM student advisor 1991-2001, 2005
- Co-chair retention, recruitment and advancement 1992-2000
- Chair retention committee 2005 -2006
- Chair recruitment committee 2005-2006.

University Committees:

- Academic Computing Committee 1998-99
- Co-chair University wide Faculty/Student grievance committee
- Member of search committee for Vice President Student Affairs
- Co-chair of the computer support group providing computer technical support to the visiting SACS accreditation team, 1997

Professional Memberships:

- Association for Computing Machinery (ACM)
- Institute of Electrical and Electronic Engineers (IEEE) Computer Society