

# AURELIA T. WILLIAMS

## CURRICULUM VITA

### EDUCATION

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2003-2006	Pace University <i>Doctor of Professional Studies, Computer Science</i> <ul style="list-style-type: none"><li>▪ Emphasis in Computer Science pedagogy.</li></ul>	White Plains, NY
1996-1998	Johns Hopkins University <i>M.S., Computer Science</i> <ul style="list-style-type: none"><li>▪ Emphasis in Telecommunications</li></ul>	Baltimore, MD
1990 - 1994	Norfolk State University <i>B.S., Computer Science</i> <ul style="list-style-type: none"><li>▪ DNIMAS Scholar, 3.2 GPA, Cum Laude Graduate</li></ul>	Norfolk, VA

### PROFESSIONAL TEACHING EXPERIENCE

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Aug 2001 – present	Norfolk State University <i>Chairman and Associate Professor, Computer Science Department (elected July 2012)</i> <ul style="list-style-type: none"><li>▪ Duties include responsibility for the proper management and oversight of all activities related to instruction, student learning, and academic advisement within the Computer Science department. In particular responsibilities include assigning faculty course schedules, maintaining student records in the departments, supervising academic counseling of students, directing instructional and program assessment, and developing the faculty input for long-range and annual reports essential for departmental health and growth. Previous positions include Undergraduate Program Director and Departmental Committee Chair for Undergraduate Assessment</li><li>▪ Departmental Coordinator for CSC 170 Coordination (2005-present) – Responsibilities include leading CSC 170 and CSC 170L faculty to present course material in a concerted effort to minimize disruption to students enrolled in both courses. Efforts include providing common exams and facilitating discussion regarding best practices of delivery methods.</li><li>▪ Teach several undergraduate level courses; advise students; supervise several students with research projects; revise curricula and develop web-based instructional materials.</li><li>▪ Primary teaching emphasis in introductory computer science courses and information technology courses</li><li>▪ Academic advisor for scholarship Computer Science majors</li><li>• Member of University Assessment Committee, CSET Representative (2011 – present)</li><li>• Member of CSET Recruitment and Compliance/Grievance Committees (2010-2011)</li><li>• Fifth Year Report Writing Committee, Lead for Student Achievement section (2012-present)</li><li>• Member of CSET Committee to establish Forensic Science Program (2012-present)</li></ul>	Norfolk, VA
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## PROFESSIONAL EXPERIENCE

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- Nov 2000 – SPAWAR Systems Center Charleston, Norfolk Division Norfolk, VA  
Aug 2001
- Computer Scientist/ IT Specialist
  - Maintained a Secret clearance.
  - IT Specialist responsible for the support of the FISCAL office at NSGA Northwest.
  - Maintained hardware and software used to complete financial tasks.
  - Developed software solutions to automate financial tasks
- Sep 1994 – Department of Defense Fort Meade, MD  
Nov 2000
- Computer Scientist/Analyst
  - Maintained a TS/SI clearance.
- Sep 1998 – *Local Address: Naval Security Group Activity Northwest Chesapeake, VA*  
Nov 2000
- Information Technology (IT)/ LAN Administration and Development Branch Officer accountable for design and administration of command networks and base-wide fiber optic infrastructure. Directly supervised 8 personnel charged with the installation, administration, development, and security of multiple networking environments running Windows NT and Linux based file servers, MS Exchange mail servers; MS IIS Internet and Intranet web servers; Windows NT, Windows 95, and Unix/Linux based workstations; intelligent single-mode fiber optic Ethernet switches; intelligent multi-mode fiber optic Ethernet hubs; twisted pair Ethernet hubs; CISCO routers and all associated networked peripherals. Responsible for the support of approximately 800 Intel based personal computers running various applications MS Office 97, Outlook, MS IE v4 and Netscape Communicator v4.

## RESEARCH INTERESTS

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Computer Science Education, Information Assurance, Computer, Internet and Mobile Forensics, Computer Security, Data Communications, Network Security

## HIGHLIGHTED PROFESSIONAL ACTIVITIES

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- Reviewer for the National Science Foundation's Scholarships in Science, Technology, Engineering, and Mathematics competition, 2009, 2011
- Reviewer for the National Center for Women & Information Technology (NCWIT) Academic Alliance Seed Fund Proposals, 2010
- Co-Principal Investigator of NSA Sponsored Grant: Norfolk State University Information Assurance Scholarship Program, Sept 2010-present
- Co-Principal Investigator of NRC Increasing the Recruitment and Retention of Underrepresented Students in STEM majors through Nuclear Safety Research, October 2010-present
- Participated in the collaborative INSITE research project with Old Dominion University to increase the retention of women in information technology, January 2005- 2008
- Principal Investigator of NSF S-STEM Scholarship Grant: Science and Technology Honors Program for Retaining and Advancing Majors (STREAM), April 2009-present

## UNIVERSITY LEVEL TEACHING EXPERIENCE

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- CSC 101 - Introduction to the Computer Science Profession
- CSC-111/ITE-111 – IT Principles
- CSC 169 – Introduction to Computer Science
- CSC 170/L & 260– Computer Programming I & II with Laboratory
- CSC-211/ITE-211 – IT Operating Systems
- CSC-313 – Network Administration
- CSC 372 – Data Structures
- CSC-464/564 – Operating Systems (Undergraduate & Graduate)
- CSC-492 – Independent Study – Distributed Web Development
- CSC-498/499 – Computer Science Seminar I and II
- Graduate Advanced Topics in Computer Science – Forensics and Android Forensics

## SELECTED PRESENTATIONS

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- A. T. Williams, A. Evans and J. M. Graham, “Future of digital Forensics: A survey of Available Training“ , Proceedings of the FECS’11, the 2011 International Conference on Frontiers in Education: Computer Science and Computer Engineering, Las Vegas, N.V. July 2011.
- A. Williams and F. Doswell. Cloud Computing Standards and Education. Technical Presentation. ADMI 2011. April 2011. Clemson, SC.
- A. Williams, “Nuclear Safety Research – Advances in Stem Education, Training and Research” Panelist. BEYA Conference 2011. January 2011. Washington, DC.
- A. Williams. “Legal, Ethical Issues and Privacy“& “Human Factors” lectures. Cyber Security Training Workshop for Mississippi Valley State University, Norfolk state University, June 1 - 4, 2010
- A. T. Williams, F. Doswell, "The Impact of Cloud Computing on Education and Research" ADMI Workshop on Cloud Computing, Elizabeth City State University, Elizabeth City, NC December 16, 2010
- A. T. Williams, M. Abdullah, “Women and Science: It’s the Place to Be,” 2009 Hampton Roads Conference for Young Women, Old Dominion University, Norfolk, VA June 2009

## SELECTED PUBLICATIONS

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- R. Sands, G. Hsieh, W. Hendricks and A. Williams, “Building a Secure Virtual Lab Infrastructure for IT Education,” in Proc. 2012 Int’l Conf. on Frontiers in Education: Computer Science and Computer Engineering, July 2012, Las Vegas, NV
- Curtis Steward, Luay A. Wahsheh, Aftab Ahmad, Jonathan M. Graham, Cheryl V. Hinds, Aurelia T. Williams, and Sandra J. DeLoatch. Software Security: The Dangerous Afterthought. In Proceedings of the 9th International Conference on Information Technology: New Generations, April 15-19, 2012.
- Kinyetta Jeter, Luay A. Wahsheh, Aftab Ahmad, Jonathan M. Graham, Cheryl V. Hinds, Aurelia T. Williams, and Sandra J. DeLoatch. Keeping the Bad Eyes Out: Database Security for Forensics Data. In Proceedings of the 27th International Conference on Computers and Their Applications, March 11-15, 2012.
- A. Evans, A. T. Williams and J. M. Graham, “Future of digital Forensics: A survey of Available Training“ , Proceedings of the FECS’11, the 2011 International Conference on Frontiers in Education: Computer Science and Computer Engineering, Las Vegas, N.V. July 2011.
- J. Powell, A. Williams, L. Wahsheh and C. Hinds. “Digital Forensics Investigation in Secure Cloud Computing Environments.” ADMI 2011. Clemson, S C.
- B. Herring, A. Williams. “Development of a Cloud Environment using vSphere “(Poster). ADMI 2011. April 2011 Clemson, S. C.
- S. L. Cebula, A. Ahmad, L. A. Wahsheh, J. M. Graham, S. DeLoatch, and A. T. Williams. How Secure is WiFi MAC Layer in Comparison with IPsec for Classified Environments? In Proceedings of the 14th Communications and Networking Simulation Symposium, pp. 109–116, April 2011.
- A. T. Williams, S.J.DeLoatch, N.L. Jackson, “Retaining Women in First Year CS Courses.” Institute for Women in Trades, Technology & Science (IWITTS), Best Practices section of website, [http://www.iwitts.com/html/womentechportal\\_curriculum.html](http://www.iwitts.com/html/womentechportal_curriculum.html)

## PROFESSIONAL AND HONORARY MEMBERSHIPS

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- Association for Computing Machinery (ACM)
- Special Interest Group for Computer Science Education (SIGCSE)
- Upsilon Pi Epsilon Computer Science Honor Society
- Computer Science Teachers Association

## REFERENCES

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Available Upon Request