

Cyntrica Eaton

Contact Information

Associate Professor, Norfolk State University
Department of Computer Science
700 Park Avenue
Norfolk, VA 23504
(757) 823-9451
cneaton@nsu.edu

Education

University of Maryland (UMD), College Park, Maryland

Ph.D., Computer Science, November 2007

Dissertation: *A Framework for Detecting and Diagnosing Configuration-Specific Faults in Web Applications*

Norfolk State University (NSU), Norfolk, Virginia

B.S., Computer Science, May 2001

Appointments and Research Experience

Norfolk State University, Norfolk, Virginia

Department of Computer Science

Associate Professor | Undergraduate Program Chair

August 2008 – present

Responsible for teaching courses in software design (CSC 170), user interface design (CSC 360), and game design (CSC 461) in addition to administrative duties of supporting the Chair and undergraduate student activities in the department.

Norfolk State University, Norfolk, Virginia

DHS Summer Research Team Program for Minority Serving Institutions

Principal Investigator

May 2013 – present

Conducting research using the Web-based Analysis and Visualization Environment as a focal point for usability and Computer Science Education research.

Norfolk State University, Norfolk, Virginia

In partnership with Old Dominion University, Norfolk, Virginia

NSF HRD: Research on Gender in Science and Engineering Project

Co-Principal Investigator

March 2010 – present

Facilitated the distribution of surveys to Computer Science and Engineering students designed to assess the impact of capitalization (professional development) activities on student persistence in their majors. Additionally supervised a total of four undergraduate students who participated in the REU component of the project. Currently finalizing reports.

University of Massachusetts Lowell, Lowell, Massachusetts

Institute for Visualization and Perception Research (IVPR)

Visiting Researcher

June 2013 – August 2014

Facilitated the distribution of surveys to Computer Science and Engineering students designed to assess the impact of capitalization (professional development) activities on student persistence in their majors. Additionally supervised a total of four undergraduate students who participated in the REU component of the project.

Norfolk State University, Norfolk, Virginia

Creative Gaming and Simulation Lab (CGS)

Consultant

May 2011 – February 2013

Develop instructional material for VNurse, a 3D, interactive training environment for nursing students and professionals by working directly with Subject Matter Experts (SMEs).

Appointments and Research Experience (continued)

Florida International University, Miami, Florida
Department of Electrical and Computer Engineering
Visiting Researcher

May 2010 – August 2010

Conducted research along with Armando Barreto in social computing; this appointment stems from participation in Quality Education for Minorities' HBCU-UP Leadership Development Institute.

Professional Activities: Reviewing

Air Force Summer Faculty Fellowship Program (2014)
Grace Hopper Celebration of Women in Computing (2014)
IEEE Software (2011 - 2014)
Emerging Researchers National Conference in STEM (2011 - 2014)
Science Books and Films, American Association for the Advancement of Science (2010 – 2012)
Richard Tapia Celebration of Diversity in Computing Conference (2009, 2012, 2013)
HBCU-Target Infusion, National Science Foundation (2011, 2013)
Science, Mathematics and Research for Transformation Scholarship for Service Program (2011)
TESTing Techniques & Experimentation Benchmarks for Event-Driven Software Workshop (2010, 2011)
Aeronautics Scholarship Program, National Aeronautics and Space Administration (2010)
International World Wide Web Conference (2008)
IEEE International Conference on Software Maintenance (2007)

Professional Activities: Professional Development

Institute Participant, **Thurgood Marshall Member-Universities Professional Institute**, Atlanta, GA 2014
Meeting Attendee and Judge, **Association of Computer/Information Sciences and Engineering Departments at Minority Institutions (ADMI)**, Virginia Beach, VA 2014
Meeting Attendee and Judge, **Emerging Researchers National Conference in STEM**, Washington, DC (2011 – 2014)
Meeting Attendee, **Richard Tapia Celebration of Diversity in Computing Conference**, Washington, DC 2013
Institute Participant, **Institute for the Development of Excellence in Assessment Leadership (IDEAL)**, Tampa, FL 2013
Meeting Attendee and Presenter, **NSF Joint Annual Meeting: Broadening Participation Research (NSF JAM)**, Washington, DC 2012
Meeting Attendee, **International Conference on Software Engineering (ICSE)**, Zurich, Switzerland 2012
Booth Attendant, **International Meeting on Simulation in Healthcare (IMSH)**, San Diego, CA 2012
Booth Attendant, **Modeling and Simulation Conference**, Virginia Beach, VA 2011
Meeting Attendee, **“Engaging Difference: Diverse Women in STEM Building Careers, Creating Alliances” Workshop**, Charlottesville, VA 2011
Meeting Attendee, **CRA-W Career Mentoring Workshop**, San Jose, CA 2011
Meeting Attendee and Presenter, **Third International Workshop on TESTing Techniques & Experimentation Benchmarks for Event-Driven Software (TESTBEDS)**, Berlin, Germany 2011
Meeting Attendee, **American Association for the Advancement of Science (AAAS) Annual Meeting**, Washington, DC 2011
Institute Participant, **Quality Education for Minorities (QEM) HBCU-UP Leadership Development Institute**, Washington, DC 2011

Professional Activities: Community Service

Workshop Facilitator, **Girl Scouts Science Alive**, NSU 2011, 2013
Workshop Facilitator, **TechFest**, NSU 2012
Workshop Facilitator, **Saturday Scientist**, NSU 2011, 2012
Presenter, **First View**, NSU 2011, 2012
Guest Speaker, **Women of Distinction Group Meeting at I.C. Norcom High School**, Portsmouth, VA 2010
Keynote Speaker, **I.C. Norcom High School Honor Society Induction Ceremony**, Portsmouth, VA 2010
Guest Speaker, **Career Day at Camelot Elementary School**, Chesapeake, VA 2009

Professional Activities: Department, College, and University Service

Member, **NSU Faculty Senate**, 2010 (elected) - 2011
Member, **Computing Resources Committee**, 2008 - present
Member, **Graduate Program Committee**, 2008 - present
Chair, **Recruitment Committee**, 2008 - present
Member, **Student Services Committee**, 2008 - present
Grader, **Examination of Writing Competency (EWC)**, 2008 – present
Member, **Faculty Development Committee**, 2009- present

Professional Activities: Research Advising

Aaron Smith, **REU Student** (Summer 2012 – Summer 2014), **Senior Seminar Student** (Fall 2014)
Omunique Owens, **Senior Seminar Student** (Fall 2014)
Desmond Ellsworth, **REU Student** (Summer 2014)
Vanessa Hammond, **REU Student** (Summer 2014)
Roshawnda Fuller, **REU Student** (Summer 2014)
Antonio Moore, **REU Student** (Summer 2014)
Roosevelt Cooper, **Senior Seminar Student** (Fall 2011 – Spring 2012)
Cedricka Dalton, **REU Student** (Fall 2011 - Spring 2012)
Raymond Drake, **Senior Seminar Student** (Fall 2010 – Spring 2011)
Shamica Green, **REU Student** (Spring 2011)
Dale Jenkins, **Senior Seminar Student** (Fall 2011 – Spring 2012)
Brandon Lampton, **Senior Seminar Student** (Fall 2011 – Spring 2012)
Monika Monk, **Senior Seminar Student** (Fall 2011 – Spring 2012); **REU Student** (Spring 2011 –Spring 2012)
Louis Sar, **Senior Seminar Student** (Spring 2009)
John Silver, **Senior Seminar Student** (Fall 2011 – Spring 2012)
Kendra Silver, **Senior Seminar Student** (Fall 2011 – Spring 2012)
Joshua Williams, **Senior Seminar Student** (Fall 2011 – Spring 2012)
Brian Gay, **Master's Student**, (Fall 2008 – Spring 2012)

Fellowships, Honors, and Awards

NSU Science and Technology Academicians on the Road to Success (STARS) Summer Research Award, 2009 - 2012
Recognized in the *Diversity GPS* article "Top Schools for Women in STEM", 2011
Computer Science Department Teaching Award, 2010
Minority Faculty Development Workshop Travel Award, 2010
Grace Hopper Celebration of Women in Computing Travel Scholarship (*Sponsored by NSF*), 2006

Memberships

Association of Computing Machinery (**ACM**)
Institute of Electrical and Electronic Engineers (**IEEE**)
Society for Simulation in Healthcare (**SSH**)

Courses Taught

CSC 170: Introduction to Computer Programming (Lecture) Fall 2008 – present
CSC 170L: Introduction to Computer Programming (Lab) Fall 2010 , 2012
CSC 360: User Interface Design Spring 2009 – 2014
CSC 361: Survey of Programming Languages Fall 2008
CSC 461: Introduction to Game Development Spring 2012
CSC 498: Senior Seminar I
CSC 499: Senior Seminar II

Publications

“Maintaining the Spark: Helping Student Thrive in STEM Majors and Beyond”, Apple iBook, (in publication)

“A Framework for Detecting and Diagnosing Configuration Faults in Web Applications”, *Advances in Computers*, volume 86, (Atif Memon, ed.)

“Crowdsourcing and Web Configuration Fault Detection: An Overview”, Third International Workshop On TESTING Techniques & Experimentation Benchmarks for Event-Driven Software (TESTBEDS), March 21, 2011, Berlin, Germany (talk)

“Advances in Web Testing,” Cyndra Eaton and Atif M Memon, *Advances in Computers*, (Marvin Zelkowitz ed.), Inderscience Publishers, 2009.

“An Empirical Approach to Testing Web Applications Across Diverse Client Platform Configurations,” Cyndra Eaton and Atif M Memon, *International Journal on Web Engineering and Technology (IJWET) Special Issue on Empirical Studies in Web Engineering*, Inderscience Publishers vol. 3, no. 3, 2007, pp. 227-253

“A Framework for Detecting and Diagnosing Configuration-Specific Faults in Web Applications,” Cyndra Eaton and Atif Memon, *The American Association for the Advancement of Science (AAAS) Annual Meeting*, San Francisco, California, February 15-19, 2007.

“Visualizing Missing Data: Graph Interpretation User Study,” Cyndra Eaton, Catherine Plaisant, and Terence Drisd, *INTERACT 2005*, Rome, Italy, September 12-16, 2005.

“Evaluating Web Page Reliability across Varied Browsing Environments,” Cyndra Eaton and Atif Memon, *Proceedings of the 15th IEEE International Symposium on Software Reliability Engineering (ISSRE 2004)*, Saint-Malo, Bretagne, France, November 2-5, 2004.

“Improving Browsing Environment Compliance Evaluations for Websites,” Cyndra Eaton and Atif Memon, *International Workshop on Web Quality (WQ 2004)*, July 27, 2004, Munich, Germany

“The Challenge of Missing and Uncertain Data,” Cyndra Eaton, Catherine Plaisant, and Terence Drisd, *Proceedings of the 14th IEEE Visualization 2003 (VIS 2003)*, Seattle, Washington, October 19-24,