

CHERYL SEALS
Associate Professor
Shelby Center for Engineering Technology, Suite 3101M

EDUCATION

2004 - Ph.D., Computer Science, Human Computer Interaction, Virginia Tech
1997 - MS, Computer Science, Virginia Tech
1995 - MS, Software Engineering, North Carolina A&T State University
1993 - BS, Mathematics Education, Grambling State University
1990 - BS, Computer Science, Grambling State University

EXPERIENCE

2010 - Present: Assoc. Professor, Computer Science & Software Engineering, Auburn University
2004 - 2010: Assistant Professor, Computer Science & Software Engineering, Auburn University
2003 - 2004: Instructor, Computer Science & Software Engineering, Auburn University
2003 - 2001: Senior Graduate Research Assistant, Computer Science, Virginia Tech
1997 - 2001: Graduate Research/Teaching Assistant, Computer Science, Virginia Tech
1995 - 1997: Computer Literacy and Programming Instructor, Computer Science & Upward Bound, Virginia Tech
1995 - 1996: Application Integrator, Integrated Services and Solutions, IBM
1989 - 1992: Member of Technical Staff/Database Administrator, Loop Facilities, Bell Communications Research

RESEARCH INTERESTS

Human Computer Interaction: visual programming of educational simulations with end user programming, intelligent agents, usability evaluation, computer supported collaborative work, minimalism. Software engineering: software reuse, object oriented program analysis/design and development.

SELECTED GRANTS

Seals, C., Principal (15%), "NSF BPC-AE, iAAMCS The Alliance for African-American Researcher in Computing (A4RC)", NSF, Federal, \$5M: AU \$253,708. Start of funding: August 2014, End of funding: April 2019.

Seals, C., Principal (20%), "BPC-AE: The STARS Alliance (STARS3): A National Community for Broadening Participation through Regional Partnerships", NSF BPC, Federal, \$2M; \$104,075.00. Start of funding: August 2011, End of funding: December 2017.

Chang, K.-H., Co-Principal, **Baskiyar, S.**, Principal, **Seals, C.**, Co-Principal, "Educating Talented Scholars in Computer Science and Software Engineering", NSF, Federal, \$600,000. Start of funding: July 2010, End of funding: June 2015.

Seals, C., Co-Principal (15%), **Yu, W.**, Principal (%), **Tian, H.**, Co-Principal (%), **Pindzola, M.**, Co-Principal (%), "CNS1059376, II-New: A Compute and Storage Cluster for Multidisciplinary Research on Computer Systems and Scientific Simulations", NSF CNS, Federal, \$152,895.00. Start of funding: March 2011, End of funding: March 2014.

SELECTED PUBLICATIONS

1. Tripp, L.O., **Seals, C. D.**, (2017). The Use of Animated Case Studies as a tool to Influence Pre-service Teacher Preparedness in Classroom Management. International Journal of Education and Social Science, Vol. 4 No. 3 March 2017.
2. **Seals, C.** (40%), **Zhang, Q.** (40%), **Cook, T.** (20%). An M-Learning Application to Enhance Children's Learning Experience, October 16 Vol. 4 No. 10, International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN: 2321-8169, PP: 214 – 222.

3. X. Li*, P-C. Shih, J. Overbey, **C. Seals**, A, Lim. Comparing Programmer Productivity in OpenACC AND CUDA: An Empirical Investigation. International Journal of Computer Science, Engineering and Application. International Journal of Computer Science, Engineering and Applications (IJCSEA) Vol.6, No.5, October 2016.
4. Seals, C. (60%), Tripp, L. (40%).* (2015). Spectrum Educational Tool Supporting Classroom Management. Journal of School Educational Technology, VOL.7. NO.4 (ISSN: 0973-2217, E-ISSN: 2230 – 7133)), 8pg. 2015.
5. Bailey, C.* (60%), Seals, C. (40%). Interface Design Guidelines to Improve Us ability of Websites for Teenagers. ACM Tapia Celebration of Diversity in Computing, February 2015.
6. Seals, C. D., Swanier, C., Nyagwencha, J. N., Cagle, A.*, Dawkins, S.*, Houser, N.* (2011). Developing New Mathematical Applications Utilizing Smart Table Access. To appear in Journal of School Educational Technology, VOL.7. NO.4 (ISSN: 0973-2217, E-ISSN: 2230 – 7133)), 8pg.
7. Seals, C. D., Swanier, C., Nyagwencha, J. N., Cagle, A.*, Dawkins, S.*, Houser, N.* (2011). Developing New Mathematical Applications Utilizing Smart Table Access. To appear in Journal of School Educational Technology, VOL.7. NO.4 (ISSN: 0973-2217, E-ISSN: 2230 – 7133)), 8pg.
8. Seals, C.D. (25%)*, Rouse, K., *McMillian, *Y. Williams, A., Gilbert, J. and Chapman, R. (2009). Computer Gaming at Every Age: A Comparative Evaluation of Alice. Journal of Educational Technology, Vol.5 No. 3. pp. 1-8.
9. Seals, C.D. (25%), Moses, W.*, Martin, A., Nyagwencha, J., Clanton, K., Thomas, Chippewa M. & Doswell, F. (2008). Life Long Learning: Seniors in Second Life Continuum. Journal of Computer Science Vol. 4, No. 12, pp. 1064-1070, 2008.

Graduates (Major Professor)

Doctoral Graduates	Graduation Date	Position
1. Fred Strickland	May 2008	Instructor, Southern University
2. Sheldon Linker	May 2012	VP/CTO Linker Systems (Comp. Software)
3. Justus Nyagwencha	May 2013	Assistant Professor, Hampton University
4. Albanie Bolton	May 2014	Data Analysis & Systems Engineer, NASA Marshall Space Flight Center Adjunct Assistant Professor, Alabama A&M University
5. Cheryl Swanier	December 2015	CS Department Head, Claflin University CS Associate Professor (previous) Fort Valley State University
6. Candice Harris Adams	May 2017	Center for Disease Control – Atlanta
7. Cathy Bailey	May 2017	Center for Disease Control – Atlanta
8. Xuechao Li	May 2017	Asst. Prof., Concordia College – Chicago

COLLABORATORS

Tiffany Barnes, Ph.D.	University of North Carolina – Charlotte
Tony Cook, Ph.D.	Auburn University
Teresa Dahlberg, Ph.D.	Cooper Union
Monica Anderson	University of Alabama
Elva Jones	Winston Salem State University
Richard Chapman, Ph.D.	Auburn University
Gerry Dozier, Ph.D.	North Carolina A&T State University
Juan Gilbert, Ph.D.	University of Florida
Kimberly King-Jupiter, Ph.D.	Auburn University
Jerlando Jackson, Ph.D.	University of Wisconsin Madison