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**Education:**

PhD, North Carolina A & T State University, Electrical Engineering, May 2004

MSE, University of Arkansas at Pine Bluff, Mathematics, May 1997

BS, University of Arkansas at Pine Bluff, Mathematics Education, May 1996

**Professional Traditional Teaching Experience:**

August 2016 – Present, Mathematics Instructor, Lane College, 545 Lane Avenue, Jackson, TN 38301

August 2014 – July 2016, Engineering/Mathematics Instructor, Johnston Community College, 245 College Rd, Smithfield, NC 27577

August 1998 – August 1999, Mathematics Instructor, University of Arkansas at Pine Bluff, 1200 North University Drive, Pine Bluff, AR 71601

August 1996 – August 1998, Mathematics Teacher, Pine Bluff School District, Southeast Junior High School, 2001 Ohio Street, Pine Bluff, AR 71601

**Professional Non-Traditional Teaching Experience:**

January 2013 – April 2015, Online Adjunct Mathematics Instructor, Everest University Online, Tampa, FL 33610

December 2006 – Present, Online Adjunct Mathematics Instructor, Central Texas College, PO Box 1800, Killeen, TX 76540-1800

October 2006 – Present, Online Adjunct Mathematics Instructor, University of Maryland University College, 3501 University Blvd. East, Adelphi, MD 20783

October 2006 – January 2012: Online Adjunct Mathematics Instructor, South University, Savannah, GA

**Professional Engineering Experience:**

June 2004 – September 2015, Aerospace Engineer, NASA/MSFC, MSFC, AL 35812

May 2003 - August 2003, Research Engineer, Sandia National Laboratories, PO BOX 5800  
Albuquerque, NM 87185

May 2001 - August 2001, Research Engineer, National Security Agency, 9800 Savage Rd. Ft.  
Meade, MD 20755

January 1992 - December 1995, Engineering Draftsman, National Center for Toxicological  
Research, 3900 NCTR Road, Jefferson, AR 72079

### **Computer skills:**

IBM and Unix/Linux environments, Microsoft Windows and DOS, Red Hat Linux, Microsoft  
Project, DOORS, MathCAD, Matlab, LabView, StatCrunch, SPSS, WordPerfect, Microsoft  
Office (Excel, PowerPoint, Word), Star Office, AutoCAD, C++ and Visual Basic.

### **Honors/Awards:**

NASA/MSFC Director's Commendation Honor Award  
NASA/MSFC Group Achievement Award  
NASA/MSFC Certificate of Appreciation, Summer Internship Program  
Ronald E. McNair Doctoral Program Fellow  
Woodland Hall Fellow  
Student Transition and Retention (STAR) Fellow  
National Dean's List  
United States Achievement Academy All-American Scholar  
Presidential Award of Alpha Rho Chapter of Alpha Kappa Alpha Sorority, Inc.  
Numerous Certificates of Appreciation

### **Publications:**

- Steven D. Christe, Jessica A. Gaskin, Albert Y. Shih, Colleen Wilson-Hodge, Leigh Smith, Katherine Stevenson Chavis, et. al, "HEROES: High-Energy Replicated Optics to Explore the Sun," 2013 SPIE Optics + Photonics Conference, Vol. 8862, August 2013.
- Jessica A. Gaskin, Jeff Apple, Katherine Stevenson Chavis, Steven D. Christe, Albert Y. Shih, Colleen Wilson-Hodge, Leigh Smith, et. al, "High-Energy Replicated Optics to Explore the Sun: Hard X-Ray Balloon-Borne Telescope," 2013 IEEE Aerospace Conference, March 2013.
- M. Clinton Patrick, Stephen Thaler, Katherine Stevenson-Chavis, "Demonstration of Self-Training Autonomous Neural Networks in Space Vehicle Docking Simulations," 2007 IEEE Aerospace Conference Proceedings, IEEEAC paper #1409, March 2007.
- Marlin Williamson, Nick Johnston, Richard Howard, Drew Hall, Joe Gaines, Katherine Chavis, "Automated Rendezvous and Docking Operations Evaluation," Proceedings of SPIE Defense and Security Symposium, Vol. 62210C, May 2006.

- Katherine M. Stevenson, “Multi-Dimensional Clustering Neural Networks for User Identification Using Data Entry Biometrics,” Ph.D. Thesis, North Carolina A & T State University, May 2004.
- K. M. Stevenson, G. Leby, G.H. Shi, “Power System Load Modeling using a RBF GRNN with Self Starting Centers,” IASTED International Conferences (PowerCON 2003 – Special Theme: BLACKOUT), Dec. 2003.
- A. Darmand, G. Leby, F. Williams, K. Stevenson, A. LaPrade, “Power System Load Characterization of a Southeastern Electric Power Cooperate Using Neural Network and Statistical Methods,” IASTED International Conference on Power and Energy System (EuroPES 2001), July 2001.

**References:**

Furnished upon request.