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| **Dr. Hilda Goins** |
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| 103 Moss Street • Reidsville, NC 27320 |
| Mobile Phone: (336) 509-6350 |
| Personal Email:  [PhDAggie@yahoo.com](mailto:PhDAggie@yahoo.com)  Alternate Email: ample.drhg@gmail.com |

**Professional Objective**

To work in research, academia, or industry utilizing my expertise in human factors engineering, and other technical-related capacities that require a strict knowledge of related programming languages and analyzing data in both time and frequency domains

**Professional Employment Experience**

**Engineering/Academia**

08/2017 - present

08/08 – 12/14

10/04 - 10/05

01/04 - 10/04

**Other/Volunteer**

**Postdoctoral Research Scholar**

**Full-Time Adjunct Assistant Professor**

**Industrial Engineering Department**

**Electrical Engineering Department (Fall '08)**

**Senior Systems Engineer**

**Adjunct Assistant Professor**

**Electrical Engineering Department**

North Carolina A&T

College of Engineering

Greensboro, NC

North Carolina A and T State University

Greensboro, NC

Lockheed Martin

Reston, VA

North Carolina A and T State University

Greensboro, NC

2013-2014

2016-current

2015 – 2017,

2007 - 2008

**Community Summer Camp Volunteer**

**Member of the Church Administration Team**

**Lateral Entry Math Teacher (Middle, High Schools)**

Guilford/Alamance

Counties **,** NC

Greater Destiny Church, Reidsville, NC

Guilford/Rockingham Counties, NC

I taught mathematics at the public middle and high schools, in addition to volunteering during two summers at free summer camps geared toward inner-city youth. With the drive to focus on diversity and inclusion, I personally attended several professional development sessions on diversity, which emphasized the importance of treating everyone with respect and dignity. Also, I attended the required county school system after school informative classes focused on inclusion of the many races we served, in addition to the range of educational levels that are served in the school system.

**Professional Research Experience**

08/17 - present

**Postdoctoral Research Scholar**

**Cyber-Human Analytics**

**Industrial and Systems Engineering Department**

**NC A&T State University**

In this multi-faceted position, my duties are three-fold. First, I perform data processing research in cyber human systems, which includes analyzing data obtained through in two labs in the Department of Industrial Engineering, namely, the Human Factors Analytics Lab and the Cyber-Human Analytics Research for the Internet of Things (CHARIoT) Lab. I am also the coordinator for the university-wide research roundtable which will enhance collaborations related to human-centered technologies. Moreover, I am responsible for training and mentoring both undergraduate and graduate research assistants who are performing research activities through our projects.

* **Abstract entitled “Structuring Coalesced Multi-Source Data for Artificial Neural Network Modeling” has been accepted to the 2018 IISE Annual Conference & Expo**
* **Submitting application for the 2018 NCAT “Preparing Future Minority Faculty Mentorship Program” by December 15**
* **Accepted Paper (presented May, 2018)**

Goins, H., Fyffe, N., Smith-Jackson, T., Homdee, N., Ridwan, A., and Lach, J. (2018). Structuring coalesced multisource data for artificial neural network modeling. *Proceedings of the Institute of Industrial and Systems Engineers Conference*, Orlando, FL, May 20-23, 2018

* **Accepted Abstract (December 2018)**

2019 Institute of Industrial and Systems Engineers Conference, Orlando, FL *Modeling Agitation Using Interior Environmental Data*

* **Conferences Attended**
* Attended the LAS Research Symposium, North Carolina State University, Raleigh, NC (Fall, 2017)
* Poster presentation. GEM-ASEE Doctoral Engineering Research Showcase, Washington, DC (Spring, 2018) *Multi-Source Environmental and Behavioral Data Structuring for* Neural Network (NNet) Classification.
* PowerPoint presentation at the Center for Advanced Studies in Identity Sciences (CASIS) Meeting

(Summer, 2018), University of North Carolina, Wilmington, NC

* Institute of Industrial and Systems Engineering Annual Conference 2018

05/99 - 08/03

**Ronald McNair Pre-Doctoral Fellow**

**NC A&T State University**

I performed research at the Human Flight Dynamics research Laboratory at NASA Langley during the summers of 1999 and 2000. Working closely with Dr. Alan Pope, human cognitive workload expert, simulated flight plans were constructed which included varying amounts of anomalies for data collection and categorization of cognitive workload levels. In addition to deriving the flight plans, I also analyzed the collected data as a basis for my dissertation research, collaborating with various individuals from NASA Langley and NC A&T State University.

12/98 - 08/98

**Research Associate**

**NC A&T State University**

Under the phenomenal guidance of Dr. Celestine Ntuen, I performed research in the area of human-computer interaction (H-CI), visiting and collaborating with researchers at the Wright Patterson Air Force Base and the Air Force Research Laboratory (AFRL) located at Eglin Air Force Base. I investigated the procedures for constructing trials and collecting electrophysiological (mainly EEG) data from air force personnel. After collecting the data, I returned to A&T and analyzed the collected data, first screening for anomalies. Research goals included determining the optimal features of the large dataset that can represent the data while comparing the accuracy of various neural network techniques to classify the cognitive states of the subjects.

11/94 - 12/98

**Research Assistant & Adjunct Faculty**

**NC A&T State University**

Expanded research on Wavelet-Based Signal Processing by changing from frequency-based to a time-based transformation emphasis. Updated my research to include the use of MATLAB computer language and taught the MATLAB computer language to incoming students for the ECE Department,

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| **Academic Background** | | | | |
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|  | **Ph.D., Electrical Engineering;** 12/03 |  |  |  |
| North Carolina A&T State University, Greensboro, NC |  |  |  |
| Ronald McNair Fellowship Recipient  During two consecutive summers, I performed research at NASA Langley Research Center in Hampton, VA and utilized the gathered data for my dissertation.  Dissertation Title:  Cognitive Workload Assessment using Individual and Coalesced Electrophysiological Signal Features  **Major Emphasis: Biomedical Signal Processing** |  |  |  |
|  | **Master of Science, Electrical Engineering;** 5/94 |  |  |  |
| North Carolina A&T State University, Greensboro, NC |  |  |  |
| Thesis Title: Wavelet-Based Image Compression  **Major Emphasis: 1D and 2D Signal Processing** |  |  |  |
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|  | **Bachelor of Science, Electrical Engineering,** 5/88 |  |  |  |
| North Carolina A&T State University, Greensboro, NC  **Major Emphasis: Signals and Analysis** |  |  |  |
| **Associate, Pre-Engineering,** 5/84 |  |  |  |
|  | Sandhills Community College, Pinehurst, NC  GPA: 3.55/4.00  Who's Who Among Junior College Students—1983  Morland Foundation Scholarship--1983 |  |  |  |

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| **References** | | | | |
|  | Dr. Paul Stanfield, Professor, Dept. of Industrial and Systems Engineering, 402 McNair Hall, 1601 E. Market Street, Greensboro, NC 27411 (336) 285 - 3735, [stanfiel@ncat.edu](mailto:stanfiel@ncat.edu) |  |  |  |
| Bishop B. Jamal Broadnax, Pastor, Greater Destiny Church, 1171 US 29 Business, Reidsville, NC 27320, (336) 340 - 8515 [bjamal75@gmail.com](mailto:bjamal75@gmail.com)  Mr. Baxter Motley, Computer and Technical Education (CTE) Teacher, Reidsville Middle School, Reidsville, NC 27320 (336) 932 - 9091, [bamotley@rock.k12.nc.us](mailto:bamotley@rock.k12.nc.us) |
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