

DR. TAIWO O. AJANI

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PROFESSIONAL EXPERIENCE

University of South Florida (2022-Date)

Assistant Professor of Instruction, School of Information

- Teaching

University of Charleston, WV (2021- 2022)

Associate Professor and Program Director, Business & Data Analytics

- Teach in assortment of ways including labs, lectures, hands-on. Provide advising and guidance in research projects/seminar.
 - Create new curriculum in the discipline
 - Teaching and Research
- Program Director for both the graduate and undergraduate Business & Data Analytics program
 - Budget Management
 - Recruiting and Enrollment
 - Establishing goals for the academic year
 - Collaborating with other department program directors, the Dean and Provost on program issues, student mentoring and curriculum applications.
 - Class scheduling, classroom allocation, and conflict resolution
 - Developing Quality assessment product for evaluation of teaching practices and effectiveness of designed curriculum
- Active in curriculum development and revision activities
- Co-coordinate collaborative efforts with the Program Directors of the Cybersecurity program
- Research writing, publishing and conference attendance.
- Proficiency in traditional and online teaching techniques.
- Others include: faculty-students research collaboration; mentorship, advising and accessibility to students; attend school and faculty meetings and activities; attend faculty developmental programs and training; conference attendance and research presentations; community service and development programs; and staying current on emerging issues and technology.

Ferrum College, Ferrum, Virginia (2012 – 2021)

Associate Professor of Computer Technology and Information Systems, (2018-Date)

Program Chair, Computer Information Systems, Ferrum College (2016-Date)

Chair, Faculty Athletic Committee (2015-Date)

Assistant Professor, Computer Information Systems (2012-2018)

- Teach in assortment of ways including labs, lectures, hands-on. Provide advising and guidance in research projects/seminar.
 - Teach Networking classes including TCP/IP, Router Configuration, Network Protocols, Subnetting etc.
 - Co-created curriculum for Business Analytics

- Created curriculum and experiential labs for classes such as: Data and Cybersecurity: Fundamentals of Cybersecurity; Forensics classes
 - Establish and control access to all laboratory systems
 - Establish policies and procedures for access, usage and security
 - Collaborate with IT to evaluate impact of laboratory systems on the institution-wide network infrastructure
 - Ensure compliance to all security protocols and procedures
- Teach classes and experiential labs such as: Data and Cybersecurity: Fundamentals of Cybersecurity; Forensics classes
- Teach and Research Database/Analytics classes using tools such as SQL, SAS, SPSS, R, Python
- Graduated students working in the Database, Analytics, Security and Cybersecurity professional spaces.
- Actively involved with Committee assignments including: Faculty Athletic Committee; Learning Management Systems; Professional Development and Academic Committee; Library Committee; and Freshmen Learning Community, Institutional Review Board.
- Served as Program coordinator for the Computer Information Systems program (2016-2019).
 - Budget Management
 - Establishing goals for the academic year
 - Liaising with program faculty and IT department to determine Learning management systems and other technical needs.
 - Collaborating with the Deans on program issues, student mentoring and curriculum applications.
 - Class scheduling and classroom allocation
 - Conflict resolution
 - Developing Quality assessment product for evaluation of teaching practices and effectiveness of designed curriculum
- Chair of Faculty Athletic Committee
 - Conflict resolution between Faculty and Athletic group
 - Program revisions for extra-curricular activities
 - Assisting Athletics in the hiring process
 - Establishing forum for rapport between faculty, athletics and student athletes.
- Active in curriculum development and revision activities
- Co-coordinate collaborative effort to develop new programs in Cybersecurity and Business Analytics/Health Informatics
 - Helped to initiate and complete a four-year process to establish Business Analytics program with emphasis on Health Analytics
 - Initiated, wrote curriculum and established a cybersecurity program for the CTIS department
 - Developed curriculum for several classes to be taught within the 2 programs
 - Service to the College community through organized workshops and community liaising.
- Research writing, publishing and conference attendance.
- Proficiency in traditional and online teaching techniques.
- Proficient use of Learning Management Systems (including Desire2Learn; Blackboard; Angel, Moodle and Canvas)
- Serve from time-to-time on Faculty search committees.
- Others include: faculty-students research collaboration; mentorship, advising and accessibility to students; attend school and faculty meetings and activities; attend faculty developmental programs and training; conference attendance and research presentations; community service and development programs; and staying current on emerging issues and technology.

Courses that I have taught in in-seat and online formats

1. Decision and Predictive Analytics with R (Graduate)
2. Public Health Informatics (Graduate)

3. Data Mining and Visualization (Graduate)
4. Data Mining with Python (Undergraduate)
5. Introduction to Business Analytics (Undergraduate)
6. Business Driven Technology (Undergraduate)
7. Introduction to Data Science (Undergraduate)
8. Machine Learning (Graduate)
9. Predictive Analytics and Decision Making (Graduate)
10. Introduction to Big Data Analytics (Graduate)
11. Foundation of Health Informatics (Graduate)
12. Representation of Health Information (Graduate)
13. Fundamentals of Information Systems (Graduate)
14. Information Technology in the Organization (Graduate)

EDUCATION

ROBERT MORRIS UNIVERSITY, Moon-Township Pittsburgh, Pennsylvania ***D.Sc.,
Information Systems and Communications***

CHICAGO STATE UNIVERSITY, Chicago
Graduate Credits, Intelligence and Security Studies

UNIVERSITY OF SOUTH FLORIDA, Tampa, Florida
M.S., Medical Sciences

UNIVERSITY OF IBADAN, Ibadan, Nigeria
B.Sc. Human Nutrition (Basic Health Sciences)

Continuing Education and Professional Trainings:

Data Analytics Training and Workshops

1. EMC Corporation Award for Data Science and Big Data Analytics Training (Using R Statistical Programming) 2014.
2. SAS Enterprise Miner Workshop (July, 2017)
3. Manipulating Healthcare Data and Analytics Using SAS University Edition, (June, 2017)
4. Data Science Training (Using R Statistical Program & Amazon Web Services) (2016)
5. SAS Enterprise Miner (July, 2017)
6. Applied Analytics Using SAS Enterprise Miner (Applying Health care data), (November 2016)
7. SAS Programming 1: Essentials (March 2016)
8. SAS Programming 2: Data Manipulation techniques (May 2016)
9. Data Science and Data Engineering Using R (2016)
10. Text Analytics Using Statistical Analysis System (SAS) Text Miner (June 2015)
11. SAS Visual Analytics (June 2015)
12. SAS Visual Statistics (July 2015)
13. Data Manipulation and Analytics Using SAS Enterprise Guide (June 2015)
14. Applied Analytics Using SAS Enterprise Miner (July 2015)
15. Advanced Business Analytics (July 2015)
16. SAS Workshop: Decision Tree Modelling (2016)
17. SAS Workshop: Using SAS to clean Big Data (2016)
18. SAS Workshop: Predictive Modelling using Logistic Regression (2016)

Continuing Professional Development Training and Workshops in Cybersecurity

1. NSF sponsored workshop: High-Speed Networks, Univ. of South Carolina, July 2019
2. Intrusion Detection and Forensic Training Workshop, July 2019
3. Internet of Things Cybersecurity, June 2019
4. NSA CAE Workshop at the NVCC Workforce Development Center (Woodbridge, Virginia, August 2018)
5. Community College Cyber Summit (Portland, Oregon 2018; Largo, Maryland 2017)
6. Cyber-Intelligence and Security, Chicago State University (2017-2019)
7. Cyber Security Workforce Faculty Workshop (Ethical Hacking and Cryptology, NSU, July 2018)
8. NSA funded CRRC Faculty Professional Development Workshop (Incident Response, DSU, May/June, 2018)
9. Linux for Cybersecurity Professional Development Course, National Cyberwatch Center (May 2-3, 2018)
10. Cybersecurity Academic Excellence (CAE) Community Symposium (Ohio, Nov. 2017)
11. MIT Professional Education Short Program in Cybersecurity (June 2016)
12. National Science Foundation sponsored training in Mobile Forensics and Security (July 2016)

PROFESSIONAL SKILLS

Data Science and Analytics; SAS programming 1 and 2; Other SAS tools (including: Text Analytics Using Statistical Analysis System (SAS) Text Miner; SAS Visual Analytics; SAS Visual Statistics; Data Manipulation and Analytics Using SAS Enterprise Guide; Applied Analytics Using SAS Enterprise Miner; Advanced Business Analytics; : Using SAS to clean Big Data; Predictive Modelling using Logistic Regression); SQL; R and Python programming; User Acceptance Model, Technology Diffusion Model, Microsoft Office tools.

PRESENTATION HIGHLIGHTS AND ORGANIZED WORKSHOPS

Analytics Presentations:

- *Advanced Data Analytics Using SAS Analytical software suite: NSA/DHS Sponsored presentation organized for South East region Institutions at Forsyth Technical Community College, North Carolina (Feb. 23, 2018)*
- *SAS Programming 1: Essentials (March 2016; and Nov. 2017)*
- *SAS Programming 2: Data Manipulation techniques (May 2016; and February 2018)*
- *Emerging technologies: A correlational study and regression model for predicting public health professionals' attitudes toward global sensor networking, 2011*

PROFESSIONAL PAPERS

Dissertation:

Ajani, T. O. 2011. *Emerging technologies: A correlational study and regression model for predicting public health professionals' attitudes toward global sensor networking*

Peer-Reviewed Publications:

1. **Ajani, T. & Habek, G. 2021. Ajani, T. & Habek, G. (2021). Principal Component Analysis for Decision Making in Healthcare and Hospital Readmissions. Issues in Information Systems. Volume 22, Issue 4, pp. 334-345, 2021**
2. Haughton C., Herrmann M.I., Summers T., Worrell S, Olatunbosun SBO, **Ajani, T. 2020. "Are Collaboration Tools Safe? An Assessment of Their Use and Risks". The 19th International Conference on e-Learning, e-Business, Enterprise Information Systems, & e-Government (EEE'20: July 27-30, 2020, USA). <https://americancse.org/events/csce2020/conferences/eee20>**
3. Burton K, Cuffee N, Jackson D, Neclos D, Olatunbosun SBO, **Ajani, T. 2020. "Contingency Planning: Prioritizing Your Resources". The 19th International Conference on e-Learning, e-Business, Enterprise Information Systems, & e-Government, (EEE'20: July 27-30, 2020, USA). <https://americancse.org/events/csce2020/conferences/eee20>**
4. Dibi R, Gilchrist B, Hodge K, Woods A, Olatunbosun SBO, **Ajani, T. 2020. "A Study of Third-Party Software Compliance and the Associated Cybersecurity Risks". The 18th International Conference on Software Engineering Research and Practice. (SERP'20: July 27-30, 2020, USA). <https://americancse.org/events/csce2020/conferences/serp20>**
5. **Ajani T., & Habek G. 2019. Improving Model Predictive Power by Integrating Structured and Unstructured Data: A Case Study of the Vaccine Adverse Event Reporting System (VAERS). American Journal of Engineering Research (AJER) e-ISSN: 2320-0847, p-ISSN: 2320-0936; Volume 8, Issue 11, pp. 9-19 November, 2019.**
6. **Ajani T., & Habek G. 2019. A Machine Learning Approach to Optimizing Diabetes Healthcare Management Using SAS Analytic Suite. Journal of Information Systems Applied Research. Volume 12, No. 2 August 2019 ISSN: 19461836.**
7. Adebaiye, R., **Ajani. T. & Owusu, T. 2018. Assessment of Multi-Hop Relay-Enhanced WiMAX Networks and the Reliability Concept of Long Term Evolution Advanced (LTE-A) in 4G Wireless Technology. American Journal of Engineering Research (AJER), Vol. 7 (Iss. 5): May, 2018**
8. Adebaiye, R., & **Ajani. T. 2018. Information Technology Usage: Quantitative Analysis of Smartphone Security Awareness and Practices among Undergraduate Students in the United States. International Journal of Engineering Technologies and Management Research (IJETMR). Vol. 5 (Iss. 3): March, 2018.**
9. **Ajani, T. 2016. Data Literacy: An Innovative Learner-Centered, Experiential Approach to Introducing Data, Internet of Things and Security to College Students. 2016 Proceedings of the Information Systems Educators Conference. Pittsburgh, Pennsylvania USA.**
10. **Ajani, T. & Adeyoola, O. 2015. A Knowledge Management Audit and Blueprint for a Technology Management Organization. 2015 Proceedings of the Information Systems Educators Conference. Orlando, Florida USA**
11. Moseley, S. & **Ajani, T. 2015. Users' Perceptions on the BrightSpace Learning Management System. Issues in Information Systems journal, Volume 16, Issue IV, pp. 10-19, 2015.**
12. **Ajani, T. & Stork, S. 2014. Emerging Technologies: Public Health Educators' Knowledge and Attitudes toward Global Sensor Networks. American Journal of Health Sciences, June 2014, Volume 5, Number 1, pp 45-52.**
13. **Ajani, T. 2014. Decision Support Systems: An Exploratory Research Examining Public Health Educators' Perception of Global Sensor Systems. Issues in Information Systems journal, Volume 15, Issue II, pp. 31-38, 2014.**
14. **Ajani, T. & Stork, S. 2014. Developing a Semantic Differential Scale for Measuring Users' Attitude toward Sensorbased Decision Support Technologies for the Environment. Journal of Information Systems Applied Research, 7(1) pp 16-22.**
15. **Ajani, T. 2014. Exploring the Implications of Technology Acceptance Models for Sensor-based Global Health Technologies. 2014 Proceedings of the Information Systems Educators Conference. ISSN: 2167-1435, Baltimore, Maryland USA**
16. **Ajani, T. & Breese, J. 2013. A Review of Technology Acceptance Models and Their Implication for Global Health - Technologies – Abstract presentation – (2013 Information Systems Education Conference, San Antonio, Texas).**

17. Ajani, T. & Cozart, T. 2014. Transforming Publicly Available Environmental Data and Information into Valuable Resources for Managing Public Health. Accepted for Poster Presentation at the December 2014 **NIH Health Disparities Symposium**, themed “Transdisciplinary Collaborations: Evolving Dimensions of US and Global Health Equity.”

18. Ajani, T. 2014. The Implications of Technology Acceptance Models for Global Health Technologies - Accepted for Poster Presentation at the December 2014 **NIH Health Disparities Symposium**, themed “Transdisciplinary Collaborations: Evolving Dimensions of US and Global Health Equity.”

Ongoing Research:

1. Twitter Sentiment on COVID-19 Vaccine
2. Twitter Data Analysis of the Relationships Between Location, favorite Counts and sentiment
3. Using Rattle as a tool for teaching Data Analytics
4. Predicting Patients’ outcome after Covid vaccination
5. Several others

Professional Memberships

1. International Association for Computer Information Systems.
2. Conference on Information Systems Applied Research