

Joshua Chibuikwe Nwokeji, Ph.D.

Clapp Endowed Chair and Associate Professor of Computer Science,
Division of Mathematics, Engineering, and Computer Science
Indiana Wesleyan University, Marion, Indiana
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EDUCATION

Doctor of Philosophy (Ph.D.), Department of Computer Science <i>Middlesex University London, United Kingdom</i> Thesis: "Information Systems Framework for Enterprise Agility"	2012-2016
Master of Science (M.Sc.), Business Information Technology <i>Middlesex University London, United Kingdom</i>	2010-2011
Bachelor of Engineering (B.Eng), Civil Engineering <i>Nnamdi Azikiwe University, Anambra State Nigeria</i>	2000-2006

ADMINISTRATIVE EXPERIENCE

Chairperson of Graduate Council <i>Gannon University, Erie PA, USA</i>	07 2023–06 2025
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Duties and Responsibilities

As the chairperson of the Graduate Council, I provide leadership, design, and implement the overall strategy for performing the duties and responsibilities outlined for the council in the Institutional Policy Manual (IPM). I do these in consultation with the Provost and Vice President of Student Experience and members of the graduate council. These duties and responsibilities are as follows:

- Provide initiative and insight in developing graduate programs to meet current, new, and emerging needs.
- Formulate general academic policies and procedures relation to graduate programs in the University
- Review and recommend basic requirements for graduate degrees.
- Review and recommend new and revised graduate degree programs.
- Foster creativity and scholarship in graduate programs.
- Plan and implement graduate events and student recognition activities.
- Represent the interests of the Graduate Programs and graduate students in the University
- Advise the Provost concerning the administration of graduate education.
- Review and recommend minimum standards for graduate student admissions

Duties and Responsibilities

- **Provide Leadership and Strategy:** I provide leadership and develop overall strategy for the administration of four graduate majors housed in the department of Computer and Information Science (CIS), these majors include: M.Sc. Information Assurance and Cybersecurity; M.Sc. Data Science; M.Sc. Information Technology; and M.Sc. Software Engineering.
- **Develop and Evaluate Academic Programs:** I adopt best practices to develop new academic programs and evaluate existing ones. For instance, in fall 2021, I worked with a committee to develop the M.Sc. in Information Assurance and Cybersecurity (IAC) Program.
- **Build and Revise Curriculum:** I lead various initiatives to develop new or revise existing curriculum and course offerings within the department. Currently, I am leading a committee to assess and evaluate graduate curriculum within the department
- **Support ABET Accreditation:** I work closely with the department chairperson and accreditation committee to ensure successful accreditation of graduate and undergraduate programs within the department. Specifically, I evaluate student outcomes, collect, analyze and evaluate data, help to prepare self-study, design program and student outcomes, etc.
- **Academic Advising:** I am responsible for supervising advising processes within the programs and perform duties such as evaluating student advising needs and assigning students to faculty for advising
- **Prepare Class Schedule:** I am responsible for identifying graduate courses to be offered each semester, the number of students and sections per course. I also advise the department chair on the faculty and staff suitable to teach each class
- **Supervision Admission Process:** I supervise admission processes within the program to make decisions on admitting students to appropriate programs, oversee the admission review process as well as monitor admission criteria to ensure high standard and quality

Duties and Responsibilities

- **Regulatory Compliance:** Direct IRB review and approval processes to ensure full compliance with government regulations, Belmont Report, university policies and other regulatory requirements.
- **Policy Development:** Identify, develop and oversee the implementation of Gannon University IRB policies
- **Continuous Monitoring:** Review IRB post-approval notification forms to determine if sub
- **Mentoring:** Perform evaluation, orientation, guidance and mentoring of new IRB members
- **Training:** Design, develop and conduct weekly IRB compliance training for the entire university community (students, staff and faculty).

- Recruitment: Prepare job descriptions, interview and hire personnel(work studies) for open IRB positions
- Communication: Prepare and communicate approval notices and other decisions of IRB to principal investigators or applicants.
- Knowledge Base: Develop and update Gannon University IRB Knowledge base with materials such as policy manuals to reflect new government regulatory changes.
- Report: Prepare and submit annual report of IRB Committee activities to the Vice President of Academic Affairs.
- Others: Perform other duties assigned by the Vice President of Academic Affairs.

ACADEMIC EXPERIENCE

Clapp Endowed Chair of Computer Science

July 2025–Present

Indiana Wesleyan University, Marion, IN

Associate Professor, Computer & Information Science

Aug. 2020–June 2025

Gannon University, Erie PA, USA

Assistant Professor, Computer & Information Science

Aug. 2016–2020

Gannon University, Erie PA, USA

My current duties include:

- Teaching: Developed and taught over 25 new computer & information systems (CIS) courses in 7 years, 4 out of which are brand new courses I introduced into the CIS Curriculum in Gannon University. Currently, I am revising, updating and teaching core Information Systems courses in my department.
- Research: Produced over 27 peer reviewed publications in reputable conferences and journals.
- Advising: Provide academic advising to help over 200 students develop academic goals and achieve career success.
- Curriculum Development: Chaired the IS Curriculum Review Committee in my department, and was also a member of MBA Curriculum Review Committee in Dahlkemper School of Business, Gannon University.
- Service: Founder and creator of an enterprise wide and mission critical web-based information system for IRB application and approval processes. In addition, I represent my college in faculty senate and serve as a member of faculty development committee. In the community, I serve as a member of Board of Trustee in both Erie Regional Library Foundation (ERLF) and L'Arche Erie.

Hourly Paid Lecturer in School of Computing

2014-2016

University of Kent, United Kingdom

- Prepared lecture materials, and teaching Computer and Information Science courses
- Actively engaged in scholarly activities such as conducting research, producing peer reviewed publications, applying for grants, participating and presenting research contributions in reputable computing international conferences

- Provided advising and pastoral care to students
- Assessed students' assignments, coursework and exams as well as contributed to moderation of assessments
- Supervised students' projects and maintained record of students grades, and class attendance.
- Contributed to curriculum development through participating in board of studies and learning committee meetings.

Hourly Paid Lecturer in Computer Science

2012-2014

Middlesex University, London, United Kingdom

- My duties and responsibilities at Middlesex University are similar to the ones I performed in University of Kent as listed above.

COURSES DEVELOPED AND TAUGHT

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| • Neural Networks Fundamentals | • Data Analytics |
| • Cloud Architecture (AWS and Azure) | • Database Management Systems (Oracle SQL) |
| • Systems Analysis and Design | • Business Intelligence (Tableau) |
| • Introduction to Cloud Computing (AWS) | • Business Process Modeling and Mgt. |
| • Cybersecurity Administration, Ethics, and Policy. | • Scholarship Seminar (Graduate Research) |
| • Enterprise Architecture (EA) | • Software Engineering Process |
| • Information Systems Foundations | • Requirements and Project Management |
| • Introduction to Object Oriented Programming (Java) | • Computing Mathematics |

PROFESSIONAL TRAINING AND CERTIFICATES

1. Artificial Intelligence for All | DeepLearning.AI : February 2024
2. SAS Analytics Certificate of Completion for SAS Programing 1: Essentials – June 2019 “Atlanta GA, USA ”
3. SAS Analytics Certificate of Completion for SAS Programing 2: Data Manipulation Techniques – June 2019 “Atlanta GA, USA ”
4. AWS Cloud Computing Certificate of Completion for Cloud Practitioner Essentials – Dec 2019 “Las Vegas NV, USA ”

EXTERNAL EXAMINER APPOINTMENT

1. Arthur Emil Van der Poll, Jan 2023, A Social Cognitive Analysis of Gamified Information Systems – Doctoral (Ph.D.) Thesis “University of South Africa (UNISA) ”
2. Nhlangwe Suzen Makwala, April 2022, A Contextual Model for the Adoption of Hybrid Cloud Computing in South African Telecommunication Industry – Masters (M.Sc.) Thesis “Tshwane University of Technology, South Africa ”

SELECTED THESES AND PROJECTS SUPERVISED

1. May 2025 | Anjireddy Abbireddy and Manikath Reddy Vangati | *“Leveraging LLMs for Phishing Detection: Headers, Body, and Prompt Engineering”*
2. May 2025 | Harshavardhan Bollagani and Ravindra Boggula | *“Application of Large Language Models for Optimizing Computer Networks”*
3. December 2024 | Tumenbayar Shiirevvaanchig | *“Leveraging AI for Resume Optimization: Fine-Tuning and Evaluation of Large Language Models.”*
4. December 2024 | Batpurev Baskhuu | *“A Framework for Integrating Generative AI in Full Stack Applications: Gannon IRB Case Study”*
5. May 2024 | Paniz Niksiar | *“Artificial Intelligence, Large Language Models, and Dark Patterns in UX: A Bibliometric Analysis”*
6. December 2022 | Purevedprj Enkhjargal | *“Using Natural Language Process (NLP) to Analyze the Impact of Russian-Ukraine War on Pedagogy”*
7. May 2022 | Vraj Patel | *“Impact of Social Media on Cryptocurrency Price”*
8. May 2021 | Sravya Kadambari | *“Analysis of Fake News Detection Algorithms”*
9. May 2020 | Monali Patel | *“Wabtec Sales Data Analysis in Python”*
10. December 2019 | Sidney Uzoma Onwumelu | *“Analysis of Student Security Actions in Github”*
11. May 2017 | Srinivas Balasubramanian | *“Applying Model to Model Transformation to Convert Unstructured Data to Structured Data”*
12. May 2017 | Apoorva Anugu | *“Comparative Analysis of ETL Frameworks Based on Quality Attributes”*

UNIVERSITY AND COMMUNITY SERVICE CONTRIBUTIONS

- Member Faculty Senate: Fall 17 to Present
- Chair of IS Curriculum Review Committee in CIS Department: Spring to Fall 2019
- Member of CIS Department’s Outcome Assessment Committee for ABET Accreditation: Spring 2018 to Spring 2019
- Member Gannon University Faculty Development Grant Committee: Fall 2017 to Spring 2020; Fall 2021 to Present
- Member, Board of Directors, [L’Arche Erie, PA](#): Fall 2018 to Present
- Member, Board of Directors, Erie Regional Library Foundations (ERLF): Fall 2019 to Present
- Member MBA Curriculum Review Committee at Dahlkemper School of Business, Gannon University: Fall 2018 to Spring 2019
- Chair of the IRB Establishment Committee For McDowell Senior High School, Erie PA: Fall 2018 to Spring 2019

- Member of Technology Sub-Committee of Gannon University's Widely Important Goals (WIG): Spring 2019

SYNERGISTIC ACTIVITIES/PROFESSIONAL SERVICE

- Guest Editor of a Special Issue for [IEEE Transaction on Education](#)
- Technical Program Chair [2022 Frontiers in Education\(FIE, 2022\) Conference](#)
- [Vice Chair](#), IEEE Erie Section
- Guest Editor of a Special Issue for [Information Journal](#)
- Faculty Ambassador, [AWS Educate](#) Cloud Ambassador Program
- Member AWS Educate ([AWS Educate](#))
- Panel Facilitator at the 47th, 48th, and 49th IEEE Frontiers in Education Conference. See [FIE 2017](#), [FIE 2018](#), and [FIE 2019](#)
- Co-organizer and Peer-reviewer for 3rd, 4th and 5th International Workshop on Personalizing Persuasive Technologies. See [PPT 2018](#), [PPT 2019](#), and [PPT 2020](#).
- Program Committee Member and Peer-reviewer at the 19th, 20th, 21st and 22nd International Conference on Enterprise Information Systems. See [ICEIS 2017](#), [ICEIS 2018](#), [ICEIS 2019](#), and [ICEIS 2020](#)
- Program Committee Member and Peer-reviewer International Workshop on Modeling Requirements in Business Analysis. See [MReBA 2017](#), [MReBA 2018](#)
- Member Tableau for Teaching
- Peer-reviewer: 51st Hawai International Conference on Systems Sciences (HICSS 2018).
- Peer-Reviewer at IEEE Access

AWARDS

- 2017: NSF Scholarship Recipient to attend and participate in Professors Open Source Software Experience (POSSE) Workshop.
- 2017: NSF Scholarship Recipient to attend and participate in 2017 ACM Richard Tapia Celebration of Diversity in Computing Conference.
- 2015: Award Recipient: ACM Students Research Competition 2015, Sponsored by Microsoft Research.
- 2013: Award Recipient: Excellent Presentation, Middlesex University Summer Conference.

SAMPLE COMMENTS FROM STUDENTS' EVALUATIONS

My Overall Mean Rating for All Courses is 86.74% or 4.3 in a 5-Points Scale

- Spring-2019: **CIS 350-Requirements and Project Management**
 “Love Dr. Joshua! He’s a really great professor. He’s knowledgeable, enthusiastic, and seems to love teaching. I learned a lot in his course. He’s a good teacher and leader!”

- Spring-2019: **GCIS 605-Scholarship Seminar**

“I would say that Dr. Nwokeji may be one of the best professors at Gannon. He will always give you a thoughtful and nice answer to even ridiculous questions, he very effectively engages and involves the whole class, he will make any time to meet with you, he is enthusiastic when he teaches - even if he was just in a different class for 2 hours, his expectations are clear and he will adapt the class effectively if he realizes the work he has assigned is more difficult than previously thought, he is just overall a fantastic professor”

- Fall 18: **CIS 335 Systems Analysis and Design**

“Dr. Nwokeji is always passionate and knowledgeable in each of his courses and has never failed to show that he is the best professor in Gannon’s CIS department.”

- Fall 18: **GCIS 514 Requirements and Project Management**

“Dr. Nwokeji has excellent teaching skills. The usage of the class session is very effective. One of the top business related courses I took. highly suggest to take to every student within business major.”

- Spring 18: **CIS 337 Information Systems Architecture and Deployment (EA)**

“A lot of feedback on assignments were given. Always prepared for class and had a lot of knowledge of the course material”

- Spring 17: **GCIS 508 Database Management System**

“explanation of concepts was really very helpful. no teacher can explain concepts better than this. availability of teacher is also very encouraging to go and ask questions.”

RESEARCH IN PROGRESS

1. Title: Integrating natural language processing techniques into disruptive learning context: insights from the Russian-Ukraine war

Target Journal: Computer and Education, Elsevier

JOURNAL & CONFERENCE ARTICLES[\[See Google Scholar\]](#) [\[DBLP\]](#)