

Hanan Abed Alwally Abed Allah

Lecturer | Ph.D. Computer Science | Information Security Specialist

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🏛 Mustansiriyah University – College of Science – Computer Science Dept.

PERSONAL SUMMARY

Researcher and academic with a Ph.D. in Computer Science (Database) from Mustansiriyah University. Currently serving as a Lecturer in the Department of Computer Science, College of Science. With over 8 years of teaching experience spanning demonstrator, assistant lecturer, and full lecturer roles, she brings expertise in cybersecurity, cryptography, compiler design, and programming fundamentals. She has published 15 peer-reviewed papers—many in Scopus-indexed journals—covering cybersecurity, machine learning, medical imaging, and IoT. She is committed to advancing research and nurturing the next generation of computer scientists.

EDUCATION

Degree	Field	University	Year
Ph.D.	Computer Science – Database	Mustansiriyah University, College of Science	25/11/2025
M.Sc.	Computer Science- Information Security	Mustansiriyah University, College of Science	27/05/2019
B.Sc.	Computer Science	Mustansiriyah University, College of Science	2010

ACADEMIC RANK

Lecturer – Specialization: Information Security | Granted: 28/09/2022

ACADEMIC & TEACHING EXPERIENCE

- Teaching assistant – Mustansiriyah University, College of Science, CS Dept. (2012–2015)
- Assistant Lecturer – Mustansiriyah University, College of Science, CS Dept. (2019–2022)
- Lecturer – Mustansiriyah University, College of Science, CS Dept. (2022 – Present)

COURSES TAUGHT

Stage	Course	Type	Topics Covered
1st	Programming Fundamentals	Practical	Variables, I/O, If-Statement, Loops, Arrays, Methods
3rd	Compiler Design	Practical	Regular Expressions, DFA/NFA, Transition Diagrams
3rd	Information System Security	Theoretical & Lab	Access Controls, Cryptography, Application Security, Risk Mgmt.
4th	Information System Security (Advanced)	Theoretical & Lab	Network Security, Database Security, DES, Blowfish Encryption

RESEARCH PUBLICATIONS (15 PAPERS)

#	Title	Journal	Year	Index
1	An Engineering Approach to Explainable AI for SQL Query Optimization: OptiMind Framework	Al-Noor Journal of Engineering Mgmt. & CS	2026	Local
2	A New Proposed Method for Determining Software Requirements	AIP Conference Proceedings	2024	Local
3	Securing ML Models: A Systematic Survey of Poisoning Attacks and Defense Mechanisms	Journal of Al-Qadisiyah for CS & Math.	2024	Local
4	A Safe Distance Monitoring System with an Ultrasonic Range Detector Sensor	IEEE Xplore	2023	Scopus
5	Effective Phishing Emails Detection Method	Turkish Journal of Computer & Math. Education	2021	Local
6	Detection COVID-19 of CT-Scan Image for Iraqi Patients based on Deep Learning	Webology	2022	Scopus
7	Nanotechnology and Characterization Techniques for Nanomaterials: A Review	NeuroQuantology	2021	Scopus
8	RESTful API Design for a Real-Time Weather Reporting System	Intelligent Systems and Networks	2021	Scopus
9	Green Synthesis of MgO NPs by Olea Europaeae Leaves Extract	NeuroQuantology	2021	Scopus
10	Live to Learn: Learning Rules-based Artificial Neural Network	Indonesian J. of EE & CS	2021	Scopus
11	Secure and Smart System for Monitoring Patients with Critical Conditions	Indonesian J. of EE & CS	2021	Scopus
12	CT & PET Medical Image Fusion Techniques Based On Statistical Criteria	Solid State Technology	2020	Scopus
13	Arduino & IoT Based Health Surveillance Systems: A Review	Solid State Technology	2020	Scopus
14	Cybersecurity Risks Detection and Prevention	AL-MANSOUR Journal	2019	Local
15	Detection and Prevention SQL Injection using MCA Technique	Journal of Engineering & Applied Sciences	2019	Scopus

PROFESSIONAL AFFILIATIONS

- Committee Member – Laboratory Quality Committee, CS Dept., Al-Mustansiriyah University (2019)
- Committee Member – Library Inventory Committee, CS Dept., Al-Mustansiriyah University (2019)
- Committee Member – Media Committee, CS Dept., Al-Mustansiriyah University (2019)
- Committee Member – Electronic Systems Building Committee, CS Dept. (2019)
- Government Program Representative – CS Dept., Al-Mustansiriyah University (2019)
- Member – Qualification, Employment and Follow-up Unit for Graduates, CS Dept. (2020)

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

- IC3 – Internet and Computing Core Certification
- Arab Artificial Intelligence Summit (2019)
- Cyber Security Assessment and Penetration Testing
- Rubric Scoring – How Does It Work In Google Classroom
- Effective Teaching and Learning
- 1st CAS 2019 Conference

RESEARCH PROFILES & ONLINE PRESENCE

ORCID: <https://orcid.org/0000-0002-2943-369X>

Google Scholar: <https://scholar.google.com/citations?hl=ar&user=t3psrw4AAAAJ>

ResearchGate: https://www.researchgate.net/profile/Hanan_Wally

Mendeley: <https://www.mendeley.com/profiles/hanan-almaliky2/>

LinkedIn: <https://www.linkedin.com/in/hanan-abedalwally-327000138/>

University Webpage: <https://uomustansiriyah.edu.iq/e-learn/profile.php?id=6235>
