

BILAL IBRAHIM ALQUDAH, Ph.D.

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Dr. Bilal Alqudah is an accomplished Assistant Professor and an International Expert in Computer and Cyber Security, specializing in Privacy Protection. With a Ph.D. from Southern Methodist University (SMU), Dallas-Texas. USA, Dr. Alqudah possesses extensive experience in training and capacity building, teaching, research, and practical application of cybersecurity and network security concepts. He has served as a Chair for Computer Science and Computer Information Systems Departments and actively contributes to improving academic work and research. Dr. Alqudah's expertise includes data and computer security, risk assessment, cryptography, access control, data analysis in cybersecurity, and the development of intelligent intrusion detection systems. He is recognized for his leadership in digitalization efforts, providing technology solutions, and delivering specialized training in e-crime and cyber security to law enforcement and military personnel. Alqudah served as an international cybersecurity and e-crime expert for Penal Reform International (PRI) providing specialized Training and capacity building sessions.

Experience:

Assistant Professor, Computer Science/Engineering Department Al-Hussein Bin Talal University (AHU), Maan, Jordan | 2015 – Present

- Teach computer science and cybersecurity and network security courses for undergraduate and graduate students.
- Supervise advanced research projects, focusing on **digital anonymity, privacy protection, information security, cyber threat detection, digital forensics, and cybercrime analysis.**
- Conduct advanced cybersecurity research, including **cloud security, big data analysis in cybersecurity, and development of intelligent intrusion detection systems.**
- Serve in multiple college committees to enhance academic work, research, and student/staff social life.
- Established a training lab at AHU-College of IT, providing practical training in programming and technology.
- Deliver seminars and training courses for students and staff, and coordinate student teams for national/international competitions.

International Expert in Cyber Security, Privacy Protection, and Computer Security Penal Reform International (PRI), Middle East and North Africa | Ongoing

- Provide specialized training on cybercrime investigation techniques for law enforcement officers in North Africa.
- Developed a specialized book/manual for PRI in e-crime and cyber security, used as an official training guide.
- Collaborate with government agencies and international organizations to enhance security teams' capabilities against modern cyber threats.

Chair (in-Act), Computer Information Systems Department Al-Hussein Bin Talal University (AHU), Maan, Jordan | Sep 2016 – Sep 2017

Chair (in-Act), Computer Science Department Al-Hussein Bin Talal University (AHU), Maan, Jordan | Summer 2016

Teaching Assistant (TA) & Software Developer Southern Methodist University (SMU), Dallas, TX, USA | 2009 – 2015

- Taught practical computer programming for graduate and undergraduate students.
- Taught system analysis, object design, design patterns, and implementation using various programming languages.
- Participated in training military personnel and law enforcement officers in specialized cybersecurity courses, gaining practical expertise in high-security environments.

Software Developer (Java) Southern Methodist University (SMU), Dallas, TX, USA | 2008 – 2009

- Worked as a Java programmer in the transportation laboratory team, collaborating across computer science and civil engineering departments to build a smart simulation system to predict transportation problems and provide planning tools.

Computer and Network Support Southern Methodist University (SMU), Dallas, TX, USA | 2007 – 2008

- Provided system support, troubleshooting, and new system installations at CLU-SMU.
- Authored work progress reports and defined requirements for upcoming project studies.

DBA, Software Developer, Analyst, Software Development Center Al-Hussein Bin Talal University (AHU), Maan, Jordan | 2001 – 2005

- **Led comprehensive computerization efforts for Al-Hussein Bin Talal University, including the implementation and management of financial and knowledge systems.**
- Provided technology solutions encompassing networking, customized software, and security monitoring systems.

- Performed system analysis, requirement elicitation, objective studies, planning future upgrades, and ensuring systems compatibility.
- Evaluated developed solutions through debugging, testing, and deployment.
- Managed Oracle (8x, 9x) Database installation, creation, backup, and maintenance.
- Managed projects, organized team-to-team and team-to-client meetings to enhance mutual understanding.

Computer Lab. Supervisor/Teacher Mut'ah University, Computer Science Department, Karak, Jordan | 1999 – 2001

- Taught computer programming and techniques in PASCAL, Visual Basic, C/C++, Oracle (database, PL/PLSQL, Forms 2000, reports), Data Structures, Assembly language, Natural Languages, and Compiler Design and Analysis.

Education:

Ph.D. in Computer Science and Engineering (Computer and Network Security) Southern Methodist University, Dallas, TX, USA | May 2015

- Specialization: Computer Security and Privacy Protection
- Recipient of Best Research Awards in 2014 & 2015 at Lyle School of Engineering.

Master's in Computer Science Southern Methodist University, Dallas, TX, USA | Dec 2007

Bachelor's Degree in Science / Computer Science Mut'ah University, Karak, Jordan | Jan 1999

- Focus: Natural Language Processing and Compiler Design.

Certifications & Training:

- **TOT System Administration and Cyber security**, Center for Development and Advanced Computing (CDAC), Ministry of Electronics and IT, Noida, India | Nov 2019 – Mar 2020
- **TOT for Innovation and Building Capacities**, Crown Prince Foundation, Amman, Jordan | 2019
- **Oracle Development and Database Management**, CCS, Amman, Jordan | 2001

Research Interests:

- **Cyber Security and Computer Security:** Access Controlling, Cryptography, Network Security, Policy Design, Information Privacy.
 - **Digitalization & Intelligent Systems: Big data analysis in cybersecurity,** Development of **intelligent intrusion detection systems**, Cyber-attack behavior analysis, Enhancing **intelligent defense systems** against malware and advanced threats.
 - **Risk Assessment:** Developing evaluation tools and methodologies to measure system strengths and identify risks.
 - **Smart City Components:** Sensor Networks (vehicle-to-vehicle, short-distance communication, QoS), Border Security, Tracking Systems.
 - **Digital Forensics and Cybercrime Analysis.**
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Technical Expertise:

- **Programming Languages:** Java, Jython, Python, C/C++, SQL, Oracle Stored Procedures, Oracle Forms 2000, Oracle Reports 2000.
 - **Operating Systems:** Windows, Linux, VMS.
 - **Application Environments:** WinSCP, Nmap, Snort, Wireshark, Tcpdump, Metasploit, Eclipse, Apache, Microsoft Visual Basic 6.0, Netbeans, Borland jbuilder, Putty, Microsoft Publisher.
 - **Database Environments:** Microsoft Access, MySQL, Oracle 8i/9 Database, RDBMS.
 - **Software Applications:** Microsoft Office Suite (Word, Excel, Access, PowerPoint, Outlook), Open Office, FTP, Hummingbird Exceed, Emacs, Oracle Virtual Machines, Programmers Notepad, Adobe Photoshop, LaTeX.
 - **Other Skills:** Object-Oriented Programming, Software Engineering, Database Management and Security, Software Testing, System Analysis, Network Support, Problem Solving.
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Awards & Scholarships:

- Best Research Award, Southern Methodist University – Engineering | 2014 & 2015.
 - Full Scholarship for Ph.D. studies in Computer Science and Security (AHU) | 2007.
 - Full Scholarship for Master's studies in Computer Science (AHU) | 2005.
 - Full Scholarship for Bachelor's Degree in Computer Science (JAF) | 1995.
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Professional Affiliations & Service:

- **Committees:** Academic Reviewer (EDAS, JUST, TAMKEEN, Musharaka), Science Committee, Research and Development, Curriculum and Study Plans Design.

- **Memberships:** Steering Committees for academic conferences (Tamkeen, Musharaka), The Anti-Phishing Workgroup (APWG), The Healthcare Information Technology Standards Panel (HITSP)/ANSI.
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Publications: Please refer to LinkedIn website and Research Gate website for more information.

Links

- **Google Scholar Profile:**
<https://scholar.google.com/citations?user=g79Gi9cAAAAJ&hl=en&oi=ao>
- **Scopus Profile:**
<https://www.scopus.com/authid/detail.uri?authorId=58902486400>
- **My personal website showing my projects**
www.bilal-qudah.com