Eman Alashwali

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Research Interests

Web and mobile security, security and privacy issues, socio-technical (human) aspect security, security protocols.

Education

2015 – 2020	**University of Oxford** – Oxford, UK DPhil. in Cyber Security (Computer Science) Thesis: Negotiation Transparency and Consistency in Configurable Protocols: an Empirical Investigation.
2011 – 2012	**University College London (UCL)** – London, UK MSc. in Information Security Thesis: Cryptographic Vulnerabilities in Real-Life Web Servers
2011 – 2011	**University College London (UCL)** – London, UK Diploma in English for Academic Purposes Grade: Distinction.
1999 – 2004	**King Abdulaziz University (KAU)** – Jeddah, Saudi Arabia BSc. in Computer Science GPA: 4.7/5 with honour grade.

Recognition Awards

2019	**Best Paper Award** (15th Int. SECURECOMM conference).
2015	**Clementina Saduwa Award for Women in Engineering** (IEEE Region8 EMEA)
2015	**Exemplary Student Branch Counselor** (IEEE Region8 EMEA)
2004	**Excellence Award for Students** (KAU)
2003	**Excellence Award for Students** (KAU)

Work Experience

2021 – Present **Deputy Supervisor, Cyber Security Club, College of Computing & IT, KAU** – Jeddah, Saudi Arabia
Building a cyber security hub for staff and students to raise awareness, conduct activities, and network.

2020 – Present **Assistant Professor, College of Computing & IT, KAU** – Jeddah, Saudi Arabia
Teaching and conducting research. I taught the following:
Full course: Professional Computing Issues (12 cohorts) · Programming & Problem Solving (1 cohort) · Computer Skills (1 cohort)

2013 – 2020 **Lecturer, College of Computing & IT, KAU** – Jeddah, Saudi Arabia
Teaching and conducting research. I taught the following BSc. courses:
Full course: Intro. to Computer and Internet (1 cohort)
Laboratory: Computer & Information Security (7 cohorts) · SW Engineering (1 cohort) · Computer Architecture & Organisation (5 cohort)

2007 – 2013 **Teaching Assistant, College of Computing & IT, KAU** – Jeddah, Saudi Arabia
Teaching. **The founding TA of the network lab for BSc. courses**. I taught the following BSc. courses:
Full course: Intro. to Computer and Internet (5 cohorts)
Laboratory: Data Communication & Networks (6 cohorts) · Intro. to Programming with C++ (2 cohorts)

2008 – 2011 **Head of Labs and Technical Support Unit (the 1st Head), College of Computing & IT, KAU** – Jeddah, Saudi Arabia
Leading a team of technicians to build and support the college's labs. The founding head of the labs and technical support unit. Passed the ISO accreditation for quality management systems.

2006 – 2007 **Junior Network Administrator, IT Department, Dar Al-Hekma University (DAH)** – Jeddah, Saudi Arabia
Administering the university's network and providing technical support to staff and students.

2006 – 2006 **Assistant Graphic Designer, IT Department, Effat University** – Jeddah, Saudi Arabia
Responsible for the graphic design of the university.

2004 – 2006	**Network & User Support Coordinator, IT Department, Dar Al-Fikr Schools** – Jeddah, Saudi Arabia

Administering the school's network and providing technical support to staff and students.

Google Scholar Profile

List of Publications

2021   **Saudi Parents' Privacy Concerns About Their Children's Smart Device Applications**
E. Alashwali and F. Alashwali.
under review.

2020   **Exploring HTTPS Security Inconsistencies: A Cross-Regional Perspective**
E. Alashwali, P. Szalachowski, and A. Martin.
Computers & Security, 2020, Vol. 97, No. 101975.

2019   **Towards Forward Secure Internet Traffic**
E. Alashwali, P. Szalachowski, and A. Martin.
Security and Privacy in Communication Networks (SECURECOMM), US.

2019   **Does "www." Mean Better Transport Layer Security?**
E. Alashwali, P. Szalachowski, and A. Martin.
Availability, Reliability and Security (ARES), UK.

2018   **DSTC: DNS-based Strict TLS Configurations**
E. Alashwali and P. Szalachowski
Risks and Security of Internet and Systems (CRISIS), France.

2018   **What's in a Downgrade? A Taxonomy of Downgrade Attacks in the TLS Protocol and Application Protocols Using TLS**
E. Alashwali and K. Rasmussen
Workshop on Applications and Techniques in Cyber Security at SECURECOMM, Singapore.

2018	**On the Feasibility of Fine-Grained TLS Security Configurations in Web Browsers Based on the Requested Domain Name**
	E. Alashwali and K. Rasmussen
	Security and Privacy in Communication Networks (SECURECOMM), US.

2015	**Design and Evaluation of Competition-based Hacking Exercises**
	E. Alashwali and H. Ben-Abdallah
	Engineering Education Conference (EDUCON), Estonia.

2014	**Incorporating Hacking Projects in Computer and Information Security Education: An Empirical Study**
	E. Alashwali
	Journal of Electronic Security and Digital Forensics, Vol. 6, No. 3.

2013	**Cryptographic Vulnerabilities in Real-Life Web Servers**
	E. Alashwali
	Communications and Information Technology (ICCIT), Lebanon.

IT Career Certifications

2008	**Microsoft Certified Systems Administrator (MCSA)**
	Microsoft.

2008	**Microsoft Certified Professional (MCP) in Implementing, Managing, and Maintaining Windows Server 2003**
	Microsoft.

2007	**Microsoft Certified Professional (MCP) in Managing and Maintaining Windows Server 2003 Environment**
	Microsoft.

2007 – 2010	**CISCO Certified Network Associate (CCNA)**
	CISCO.

2006	**A+ Certified Professional**
	Computing and Technology Industry Association (CompTIA).

2005	**MCP in Installing, Configuring, and Administering Windows XP Professional**
	Microsoft.

2005	**I-Net+ Certified Professional** *CompTIA.*
2004	**Network+ Certified Professional** *CompTIA.*

Volunteering

2014 – 2015	Students Activities Chair **IEEE Western Saudi Section**
2014 – 2015	KAU Student Branch Counselor **IEEE Western Saudi Section**

Committees

2021 – now	Professional Computing Issues Course Coordinator **IS Dept., KAU**
2021 – now	Member of the Alumni Committee **IS Dept., KAU**
2020 – now	Member of the Academic Advising Committee **IS Dept., KAU**
2014 – 2015	Member of the Executives Committee **IEEE Western Saudi Section**
2013 – 2015	Member of the Academic Advising Committee **IS Dept., KAU**
2013 – 2015	Member of the Exams Committee **IS Dept., KAU**
2010	Member of the Interviewers Committee for the Permanent Technicians jobs **FCIT, KAU**
2010	Member of the Inventory Committee **FCIT, KAU**

Reviewing Service

2021   Journal of Behaviour and Information Technology
        Taylor and Francis

2014   the 6th IEEE Global Engineering Education Conference
        Tallin University of Technology, Tallin. Estonia

2014   the 11th "Learning & Technology Conference (L&T)"
        Effat University, Jeddah, Saudi Arabia

Languages

English (Fluent), Arabic (Native).

Other interests

Art and drawing
https://www.behance.net/ealashwali