

# Eman Salem Alashwali

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## Research interests

Security and privacy, usable security and privacy, Internet measurement.

## Education

- 2015 – 2020    **University of Oxford** – Oxford, UK  
PhD 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.

## Global/Regional/Local Recognition Awards

- 2020    **Best Presentation Award, 3rd Place (Global)**, Oxbridge Women in Computer Science Annual Conference (a joint conference for all Oxford and Cambridge Students), Cambridge.
- 2019    **Best Paper Award (Global)**, 15th Int. Conference in Security and Privacy in Communication Networks (SECURECOMM), US.
- 2015    **Clementina Saduwa Award for Women in Engineering (Europe, ME, and Africa)**, IEEE.  
For my career achievements and noteworthy support for women in the profession.

- 2015     **Exemplary Student Branch Counselor (Europe, ME, and Africa), IEEE.**  
For my noteworthy efforts in KAU IEEE student branch.
- 2004     **Excellence Award for Students (Local), KAU.**  
For maintaining excellent GPA for 2 consecutive semesters in 2004.
- 2003     **Excellence Award for Students (Local), KAU.**  
For maintaining excellent GPA for 2 consecutive semesters in 2003.

## Work Experience

- 2022 – Present     **Collaboration Visitor, Security & Privacy Institute, Carnegie Mellon University (CMU) – Pittsburgh, US**  
Visiting researcher at CyLab working with the Usable Privacy and Security (CUPS) group.
- 2020 – Present     **(On leave) Assistant Professor, College of Computing & IT, KAU – Jeddah, Saudi Arabia**  
Teaching specialised and general full courses, and conducting research.
- 2021 – 2022     **Deputy Supervisor of Cybersecurity Club, College of Computing & IT, KAU – Jeddah, Saudi Arabia**  
Conduct activities and networking activities for cybersecurity for both staff and students.
- 2013 – 2020     **Lecturer, College of Computing & IT, KAU – Jeddah, Saudi Arabia**  
Teaching Laboratories and general full courses, and conducting research.
- 2008 – 2011     **Head of Labs and Technical Support Unit, 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.
- 2007 – 2013     **Teaching Assistant, College of Computing & IT, KAU – Jeddah, Saudi Arabia**  
Teaching laboratories and general full courses. The founding TA of the network lab at the college.
- 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

<https://scholar.google.com/citations?user=-C8sg-cAAAAJ&hl=en&oi=ao>

## List of Publications

- 2022     **Saudi Parents' Privacy Concerns about their Children's Smart Device Applications**  
E. Alashwali and F. Alashwali.  
*Child-Computer Interaction*, 2022, Vol. 33, No. 100486. **SCOPUS Q1 Journal**.
- 2020     **Exploring HTTPS Security Inconsistencies: A Cross-Regional Perspective**  
E. Alashwali, P. Szalachowski, and A. Martin.  
*Computers & Security*, 2020, Vol. 97, No. 101975. **IF: 5.6, ISI Q1 Journal**.
- 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 SCOPUS Journal..*
- 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.*

## Reviewing / Committees

- 2023 - Present     **Reviewer, The ACM CHI conference on Human Factors in Computing Systems**  
 A top-tier events in Human-factor security research.
- 2023 - Present     **Member of Committee/Editorial Board, Proceedings on Privacy Enhancing Technologies Symposium (PoPETS)**  
 A top-tier events in privacy research.
- 2022     **Member of the Systems' Security Committee**  
 College of Computing & IT, KAU.
- 2021 – 2022     **Course Coordinator of Professional Computing Issues**  
 College of Computing & IT, IS Dept., KAU.
- 2021 – 2022     **Member of the Alumni Committee**  
 College of Computing & IT, IS Dept., KAU.
- 2020 – 2022     **Member of the Academic Advising Committee**  
 College of Computing & IT, IS Dept., KAU.
- 2014 – 2015     **Member of the Executives Committee**  
 IEEE Western Saudi Arabia Section.
- 2013 – 2015     **Member of the Academic Advising Committee**  
 College of Computing & IT, IS Dept., KAU.
- 2013 – 2015     **Member of the Exams Committee**  
 College of Computing & IT, IS Dept., KAU.
- 2010     **Member of the Interviewers Committee for the Permanent Technicians jobs**  
 College of Computing & IT, KAU.
- 2010     **Member of the Inventory Committee**  
 College of Computing & IT, KAU.

## Other Volunteer Work

- 2022 – Present     **Founder and Podcaster**  
“bit” Arabic Podcast (<https://podcasts.apple.com/us/podcast/bit/id1637283049>).  
Science and cybersecurity topics simplified for both general and specialised audience.
- 2014 – 2015     **Students Activities Chair**  
IEEE Western Saudi Section, IEEE.
- 2014 – 2015     **KAU IEEE Student Branch Counselor**  
KAU and IEEE (see: <https://www.youtube.com/watch?v=XywjgN8ze5E> and <https://www.youtube.com/watch?v=XNPfh5319NA>)

## Languages

English (Fluent), Arabic (Native).

## Other interests

Art, drawing, and photography.  
<https://www.behance.net/ealashwali>