HAZEM KATHEM QATTOUS

PERSONAL INFORMATION

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	Amman - Jordan
Nationality	Jordanian
Languages	Arabic, English
Marital Status	Married
Birth Date	4th May, 1976

EXPERIENCE

- **2020 – Until now   Princes Sumaya University for Technology (PSUT) Amman   Jordan**

Assistant Professor

I am currently working as assistant professor at King Hussein School of Computing Sciences – Department of Software Engineering. One of my main duties at PSUT is teaching. Some of the courses I am teaching include:

- Software Architecture and Design
- Software Requirements
- Structured Programming
- Server-Side-Programming
- Object-Oriented Programming

- **2011 – 2020 Applied Science Private University (ASU) Amman Jordan**

Assistant Professor / Associate Professor

I worked as associate professor at the Faculty of Information Technology, Applied Science University (ASU). I was promoted to Associate Professor in April, 2017. One of my main duties at ASU is teaching. Teaching duties include selecting an appropriate textbook for the course, preparing the syllabus, prepare the slides and other materials, prepare the exams and mark them, and prepare and mark the course project. If the course is lab-based, my duties extend to include preparing the lab materials (lab manual), lab sessions exercises, helping students during the lab, preparing and marking the lab exams. I teach several courses in the domain of Software Engineering and Computer Science including:

- Visual Programming, which is taught with lab using Xamarin.
- Android Programming, taught with lab using Android Studio.
- Requirements Engineering, taught with lab using RequestPro, Visio and Visual Paradigm.
- Software Design, taught with lab using Rational Rose, Visio and Visual Paradigm.
- Project Management, taught with lab using MS Project and Excel.
- Structured Programming, C++ as an application language (taught with lab).
- Digital Design (Logic Design).
- OOP 1, considering the basics of OOP using Java language (taught with lab).
- OOP 2, including advanced topics of OOP including GUI using Java language. Lately this course moved to use JavaFx as an application language (taught with lab).
- Data Structures, using Java (taught with lab).
- Web Development (HTML)
- Social Media and Computer Skills.

Vice Dean (2015 – 2016)

Faculty of Information Technology
Applied Science Private University (ASU)

Head of Computer Science Department (2012 – 2014)

Faculty of Information Technology
Applied Science Private University (ASU)

- **2007 – 2011   University of Glasgow   Glasgow, UK**

Lab tutor for Java and Image Processing labs

My responsibilities included instructing and supervising the labs, preparing and tutoring the lab material, and marking the student submissions.

- **2006-2007   Philadelphia University   Amman, Jordan**

Lecturer at the department of Software Engineering

During my working at Philadelphia University, I taught Requirements Engineering, Object Oriented Design and Modelling, and Object Oriented Programming courses.

- **2004   Applied Science Private University   (ASU)   Amman, Jordan**

Networks Lab Tutor

I taught Networks Lab course (1 credit hour) as a part of my responsibilities. This task was not usually assigned to lab tutors. However, the administration assigned me teaching the course because of my distinction in the bachelor degree at that time. I was also responsible for tutoring C++ lab.

- **2000–2001 MEDMAC** **Amman, Jordan**

Company Representative

- I worked as a sales manager at MEDMAC Company. I was responsible for sales of the MEDMAC agricultural products.

EDUCATION

- **2007-2011 University of Glasgow** **Glasgow, UK**

PhD Computing Science / Software Engineering.

My PhD research was in the field of Meta-CASE tools and constraint specification by example. The thesis title is "Constraint Specification by Example in a Meta-CASE Tool".

- **2004–2006 University of the West of England** **Bristol, UK**

MSc. Software Engineering.

My master thesis was in the field of Cybersecurity (Steganography) and titled as "**Investigating Combining Steganography, Cryptography, and Compression for Higher Data Protection**". I hided data, after encryption and compression, in audio files with ".wav" format. I finished my degree in 2006 with merit. My thesis was between the best submitted and selected to be published in the library as a prototype for other students to learn from it.

- **2001-2004 Applied Science University** **Amman, Jordan**

B.Sc. Computer Science.

I ranked the first in my faculty with GPA 87.5

- **1997-2000 University of Jordan** **Amman, Jordan**

MSc. Agricultural Science – Horticulture and Plant Protection Dept.

- **1993-1997   University of Jordan   Amman, Jordan**

BSc. of Agricultural Science – Plant Protection Dept.

INTERESTS

I am interested in teaching, working and research in the following fields:

- **Project Management.**
- **Software Engineering Design especially Design Patterns.**
- **Java Programming.**
- **Human Computer Interaction.**

MEMBERSHIPS AT UNIVERSITY COMMITTEES

I am heading the Quality Assurance Committee at the faculty. I was heading a team to improve the quality level in the faculty based on the national standards produced by the Accreditation and Quality Assurance Commission for Higher Education Institutions (HEAC). We achieved the SILVER level based on their evaluation. The University achieved the GOLDEN level which was an achievement of a team I was part of.

Currently, I am heading the **Faculty Schedule Committee** and member at **Exam Schedule Committee** at the faculty of Information Technology, ASU.

PhD.

During my PhD at University of Glasgow, I have developed an Eclipse plugin using **Java** programing language. The plugin works as a Meta-CASE tool for domain specific modelling language generation. Empirical studies were also conducted on the program to verify its usefulness.

AWARDS

I was awarded **"The Best Researcher at the Faculty of Information Technology"** award for the academic year 2016 / 2017   **2017**

I was awarded a scholarship during my PhD studies from the department of Computer Science at University of Glasgow because of my distinction as a PhD student. I was the only foreigner who got this scholarship.   **2009 - 2011**

I was awarded a full scholarship from Applied Science Private University (ASU) to study PhD at University of Glasgow. One reason of being awarded this scholarship was my distinction during the BSc degree at ASU (I ranked the first in the faculty when graduated in 2004)   **2007 – 2011**

PUBLICATIONS

- **Al-Oudat, M., Alomari, S., Qattous, H., Azzeh, M., AL-Munaizel, T.** (2021). An Interactive Automation for Human Biliary Tree Diagnosis Using Computer Vision. *International Journal of Computers Communications & Control* (IJCCC)*,* 16 (5), pp 472–488.

- **Al-Oudat, M., Azzeh, M., Qattous, H., Migdady, M., AL-Munaizel, T.** (2021). Automatic Intrahepatic Biliary Segmentation Based Image Processing. *Advances in Mechanics,* 9 (3).

- **Shkoukani, M., Altamimi, A., Qattous, H. (2019).** An Experimental Study to Evaluate the Integration of Various Security Approaches to Secure Transferable Data. *International Journal of Simulation Systems, Science & Technology* (IJSSST) 20 (1), pp 1-10.

- **AI-Sakran, A, Qattous, H., Hijjawi, M. (2018).** Performance Evaluation of NoSQL Databases in the Field of IOT. *8th International Conference on Computer Science and Information Technology (CSIT2018),* Amman, Jordan. IEEE Xplore, pp 32 – 37.

- **Qattous, H.** (2017). Hiding Encrypted Data into Audio File. *International Journal Of Computer Science And Network Security* (IJCSNS), 17 (6) : 162-170.

- **Hijjawi, M., AlSheikSalem, O., Qattous, H.** (2017). An Empirical Evaluation of Gesture Recognition System for Education Purposes. *International Journal of Computer Science and Network Security* (IJCSNS), 17 (3) : 26 – 37.

- **AlSheikSalem, O. and Qattous, H.** (2017). An Expert System for Design Patterns Recognition. *International Journal of Computer Science and Network Security* (IJCSNS), 17 (1) : 261 – 269.

- **Sowan, B. and Qattous, H.** (2017). A Data Mining of Supervised learning Approach based on K-means Clustering. *International Journal of Computer Science and Network Security* (IJCSNS) 17(1) : 18 – 24.

- **Qattous, H.** (2016). TeachMe, a Programming by Example Customizable Gesture Recognition System. *International Journal of Computer Science and Network Security* (IJCSNS), 16 (12) : 58 – 65.

- **Qattous, H., Sowan, B. and AlSheikSalem, O.** (2016). TeachMe, a Gesture Recognition System with Customization Feature. *International Journal of Advanced Computer Science and Applications* (IJACSA), 7 (11) : 46-50.

- **Ogbah, H., Alashqar, A. and Qattous, H.** (2016). Predicting Heart Disease by Means of Associative Classification. *International Journal of Computer Science and Network Security* (IJCSNS), 16 (9) : 24-32.

- **AlSheikSalem, O., Qattous, H. and Hijjawi, M.** (2015). Mobile Television: Understanding the Technology and Opportunities. *International Journal of Information Technology Convergence and Services* (IJITCS), 5 (5) : 1-9.

- **Hijjawi, M., Qattous, H. and AlSheikSalem, O.** (2015). Mobile ArabChat: An Arabic Mobile-Based Conversational Agent. *International Journal of Advanced Computer Science and Applications* (IJACSA), 6 (10) : 111-119.

- **Qattous, H. Gray, P. Welland, R.** (2013). DECS, a meta-CASE tool with visually-oriented constraint definition features. *Proceedings of 2013 5th International Conference on Computer Science and Information Technology (CSIT2013) Amman, Jordan*. IEEE explore, pp. 256-259.

- **Qattous, H. Gray, P. Welland, R.** (2010). An Empirical Study of Specification by Example in a Software Engineering Tool. *Proceedings of the 2010 ACM-IEEE International Symposium on Empirical Software Engineering and Measurement*. Bolzano-Bozen, Italy, pp. 1-10

- **Qattous, H.** (2009). Constraint Specification by Example in a Meta-CASE Tool. *Foundations of Software Engineering Proceedings of the doctoral symposium for ESEC/FSE*. Amsterdam, the Netherlands, pp. 13-16.

REFERENCES

- **Prof. Mohammad A. Shkoukani**

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