

# Ahmad A. Aloqaily



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## PERSONAL INFORMATION:

**Nationality:** Jordanian  
**Marital Status:** Married  
**Date of Birth:** 27 September 1980  
**Address:** 35 Elyas Ghoulah St.  
Dahiyat Ar Rashid - Amman, Jordan  
**Mobile No:** + 962 79 5 171 520  
**Email:** [aloqaily@hu.edu.jo](mailto:aloqaily@hu.edu.jo)

My teaching and research objective is to continue learning and hopefully contributing to science through my teaching and research work dedications, and I believe that this is a lifelong process.

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## EDUCATION:

### **Doctor of Philosophy (Ph.D.)**

Thesis' title: "**Modelling, Data Mining and Visualisation of Genetic Variation Data**"  
2012

Specialization: **Data Science and AI/Machine Learning**

Faculty of Engineering and Information Technology  
University of Technology, Sydney  
Sydney, Australia

### **Master of Science in Computing**

Thesis' title: "**Application of clustering gene using kernel methods**"  
2006

Department of Computing science  
Faculty of Engineering and Information Technology  
University of Technology, Sydney  
Sydney, Australia

### **Bachelor of Science in Computer Science**

2002  
Computer science department  
Faculty of Information Technology  
Jordan University of Science and Technology  
Irbid, Jordan

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## PROFESSIONAL EXPERIENCES

**The Hashemite University**

**Associate Professor**

Department of Computer science and its applications  
2-3-2020 – till now

**The Hashemite University**

Department of Computer science and its applications  
3/2/2013 – 2/3/2020

**Assistant Professor****The Hashemite University**

Department of Computer science and its applications  
1/9/2013 – 1/9/2015

**Head Of The CSA Department****University of Technology, Sydney**

Department of Software  
2/9/2011 – 25/10/2012, Sydney – Australia

**Research Assistant****University of Technology, Sydney**

Department of Software  
1/1/2007 – 1/9/2011, Sydney – Australia

**Casual Academic****The Higher Council For Science And Technology**

20/9/2003 – 1/4/2004, Jordan

**IT Trainer****Ministry of education, Jordan**

Computer science department  
1/9/2002 – 20/9/2003, Jordan

**High School Teacher**

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**RESEARCH PUBLICATIONS****Thesis**

Aloqaily, A., “**Modelling, Data Mining and Visualisation of Genetic Variation Data**”, Ph.D. Thesis, *University of Technology, Sydney (UTS), Sydney, Australia*, 2010.

Aloqaily, A., “**application of clustering gene using kernel methods**”, Masters Project, *University of Technology, Sydney (UTS), Sydney, Australia*, 2006.

**Journals**

- [1] **Aloqaily, A.**, Tafavogh, S., Harvey, B., Catchpoole, D., & Kennedy, P., (2021). “**Feature Prioritization on Big Genomic Data for Analyzing Gene-Gene Interaction**”. *Int. J. Bioinformatics Research and Applications*, 17(2), pp. 211-330.
- [2] Baarah, A., **Aloqaily. A.**, Salah, Z., Alshdaifat, E., “**Sentiment-Based Machine Learning and Lexicon-Based Approaches for Predicting the Severity of Bug Reports**”, *Journal of Theoretical and Applied Information Technology*, 99(6), pp. 1386-1401.
- [3] Elshqeirat, B, **aloqaily, A.**, Soh, S., Chin, K., Datta, A., (2021), “**On Generating Pareto Optimal Set in Bi-Objective Reliable Network Topology Design**”. *International Journal of Grid and Utility Computing*, accepted.

- [4] **Aloqaily, A.**, Al-hassan, M., Salah, K., Elshqeir, B., Almashagbah M. (2020), “**Sentiment Analysis for Arabic Tweets Datasets: Lexicon-Based and Machine Learning Approaches**”, *Journal of Theoretical and Applied Information Technology*, 98(4), pp. 612-623.
- [5] Al-Dmour, H., **Aloqaily, A.**, Al-qaimary, R., Al-hassan, M., (2021), “**The Effect of the Electronic Word of Mouth (EWOM) on Purchase Intention via the Brand Image a Mediating Factor: An Empirical Study**”, *International Journal of Networking and Virtual Organizations*. *Accepted*.
- [6] Alshdaifat, E., Al-hassan, M., **Aloqaily, A.** (2021) “**Effective Heterogeneous Ensemble Classification: An Alternative Approach for Selecting Base Classifiers**”, *ICT Express*, accepted.
- [7] Salah, Z., Al-Ghuwairi, A. R., **Aloqaily, A.**, Baarah, A. & Alsarhan, A. (2020). “**A Comparative Investigation of Approaches for Web Search Results Clustering**”. *International Journal of Advanced Intelligence Paradigms*, 17(3/4), pp. 342-366.
- [8] Ververis, A., Dajani, R., Koutsou, P., **Aloqaily, A.**, Nelson-Williams, C., Loring, E., Arafat, A., Mubaidin, A.F., Horany, K., Bader, M.B., Al-Baho, Y., Ali, B., Muhtaseb, A., DeSpensa Jr, T., Al-Qudah, A.A., Middleton, L.T., Zamba-Papanicolaou, E., Lifton, R. & Christodoulou, K. (2020), ‘**Distal hereditary motor neuronopathy of the Jerash type is caused by a novel SIGMAR1 c.500A>T missense mutation**’, *Journal of Medical Genetics*, 57(3), 178-186.
- [9] Alshdaifat, E., Al-shdaifat, A., Zaid, A. and **Aloqaily, A.**, (2020), “**The Impact of Data Normalization on Predicting Student Performance: A Case Study from Hashemite University**”, *International Journal of Advanced Trends in Computer Science and Engineering*, 9(4), 4580-4588.
- [10] Elshqeir, B., Altarawneh, M., **Aloqaily, A.**, (2020), “**Enhanced Insertion Sort by threshold swapping**”, *International Journal of Advanced Computer Science and Applications (IJACSA)*, 11(6), pp. 471-476.
- [11] **Aloqaily, A.**, Al-Nawayseh, M., Baarah, A., Salah, Z., Al-hassan, M. & Al-Ghuwairi, A. R., (2018). “**A Neural Network Analytical Model for Predicting Determinants of Mobile Learning Acceptance**”. *International Journal of Computer Applications in Technology*, 60(1), pp. 73-85.
- [12] Baarah, A., **Aloqaily, A.**, Salah, Z., Zamzeer, M. & Sallam, S. (2019), “**Machine Learning Approaches for Predicting the Severity Level of Software Bug Reports in Closed Source Projects**”, *International Journal of Advanced Computer Science and Applications (IJACSA)*, 10(8), 73-85.
- [13] Salah, Z., Al-Ghuwairi, A. R., Baarah, A., **Aloqaily, A.**, Qadoumi, B., Alhayek, M. & Alhijawi, B. (2019). “**A Systematic Review on Opinion Mining and Sentiment Analysis in Social Media**”. *International Journal of Business Information Systems*, 31(4), pp.530-554.
- [14] Salah, Z., **Aloqaily, A.**, Al-hassan, M., Al-Ghuwairi, A. R. (2019). “**A Methodology to Refine Labels in Web Search Results Clustering**”. *International Journal of Computational Intelligence Systems*, 12(1), 299-310.
- [15] Al-Ghuwairi, A. R., Salah, Z., Alsarhan, A., Qudah, S. A., Qahmous, G. A., Baarah, A., & **Aloqaily, A.** (2018). “**Monitoring and modelling service level agreement of multiple**

**virtual machines in cloud computing”**. *International Journal of Business Information Systems*, 27(4), 538-553.

### **Book chapter:**

- [16] Kennedy, P., Simoff, S., Catchpoole, D., Skillicorn, D., Ubaudi, F., **Al-oqaily, A.**, 2009. **“Integrative visual data mining of biomedical data: Investigating cases in Chronic Fatigue Syndrome and Acute Lymphoblastic Leukaemia”**. In Simeon, S. J., Boehlen, M. H. and Mazeika, A. (eds). *Visual Data Mining: Theory, Techniques and Tools for Visual Analytics, LNCS Vol. 4404, Springer Verlag, Heidelberg*, pp. 367-388.

### **Peer-Reviewed Conference papers:**

- [17] Al-Ghuwairi, A. R., Eid, H., Aloran, M., Salah, Z., Baarah, A. H., & **Aloqaily, A. A.** (2016, March). **“A mutation-based model to rank testing as a service (TaaS) Providers in cloud computing”**. In *Proceedings of the International Conference on Internet of things and Cloud Computing*, pp. 1-5.
- [18] Catchpoole, D., Ho, N., Nelmes, G., Alzamora, P., **Aloqaily, A.**, Nguyen, Q., Skillicorn, D., Kennedy P., **“Constructing a 'similarity space' from complex genomics data to aid personalized treatment decisions for childhood cancer patients.”**, *Ninth AACR-Japanese Cancer Association Joint Conference: Breakthroughs in Basic and Translational Cancer Research*, Maui, Hawaii, USA, February 21-25, 2013
- [19] **Aloqaily, A.**, Kennedy, P.J., Catchpoole, D., Simoff, S. 2008, **“Comparison of visualization methods of genome-wide SNP profiles in childhood acute lymphoblastic leukaemia”**, *Proceedings of the Seventh Australasian Data Mining Conference (AusDM 2008)*.
- [20] **Aloqaily, A.**, Kennedy, P., 2006, **‘Using kernel-based approach to visualize integrated Chronic Fatigue Syndrome datasets’**, *Proceedings of Australasian Data Mining Conference(AusDM)*, Vol. 61, ACS, Sydney, Australia.

### **Poster Presentation:**

- a. Guo, D., Diaz, S., Smith, E., **Al-oqaily, A.**, Kennedy, P., Simoff, S., Catchpoole, D., **“Integrative Data Mining and Visualization of Genome-wide SNP profiles: A Window into the Genetic Background of Childhood Acute Lymphoblastic Leukaemia (ALL) patients”**, *Sydney Cancer Conference, Australia Society of Medical Research (NSW), 2008*.
- b. **Al-oqaily, A.**, and Kennedy, P., **“Application of clustering genes using kernel methods”**. *Bioinformatics Australia, Sydney, 2006*. (poster, peer review of extended abstract).

### **Invited talks**

- c. **Al-oqaily, A.**, 2009, **“Modeling, data mining and visualization of genome-wide SNP profiles in childhood acute lymphoblastic leukemia”**, *Oncology research Unit, The Children's Hospital Westmead, Sydney, Australia*.

- d. **Al-oqaily, A., Kennedy, P., Simoff, S., Catchpoole, D., “Integrative data mining and visualization of genome-wide SNP profiles in childhood acute lymphoblastic leukaemia.”** *Oral Presentation (Aloqaily), ARC/EII Workshop, the University of Sydney, 24th May, 2007.*
- e. Daniel Catchpoole, Dachuan Guo, **Ahmed Aloqaily**, Paul Kennedy, Simeon Simoff. **“Biology-driven clinical management of paediatric acute lymphoblastic leukaemia through integrative data mining and visualization of genome-wide gene expression and SNP profiles.”** 19th International Conference on Genome Informatics, Gold Coast, Queensland, December 2008.
- f. **Aloqaily, A.** and Kennedy, P., 2006, **“Visualization and Clustering Genes: A Kernel-Based Approach”**, AusBiotech 2006 conference.
- g. Kennedy, P., Simoff, S., Catchpoole, D., Skillicorn, D., Ubaudi, F., **Al-oqaily, A.**, Du, Y. and Yildiz, S., **“Does CFS have a biological basis? – A constructionist Approach”**, *Critical Assessment of Microarray Data Analysis Conferences*, Duke University, North Carolina, USA, 2006.
- h. Kennedy, P.J., **Al-oqaily, A.**, Simoff, S., Catchpoole, D., Ubaudi, F., 2006, **“A constructionist approach to data mining: Investigating cases in Chronic Fatigue Syndrome”**, *Bioinformatics Australia, Sydney, 2006. (Contributed talk, peer review of extended abstract).*

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## AWARDS AND GRANTS

- Aloqaily, A., **"Implementing personalized medicine system using global genomic similarity"**, The Hashemite University, 2016.
- **Aloqaily, A., Kennedy, P.J., 2008. “Integrative data mining and visualization of genome-wide SNP profiles in childhood acute lymphoblastic leukaemia.”** Australian Rotary Health Research Fund Awards (ARHRF). ARHRF/District 9680 Funding partners scholar, \$75,000.
- Part of the Ph.D. contributions was turned into a project plan for a successful grant application: **“Generating actionable knowledge from complex genomic data for personalized clinical decisions”**, Cancer Institute NSW Research Innovation Grant 2012, 10/RFG/2-23, Daniel Catchpoole, Paul Kennedy, \$60,000.

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## PROFESSIONAL AFFILIATIONS AND ACADEMIC COMMITTEES

- Board member of the Jordan Computer Society
- Member of The Australian Computer Society,
- Member of the International Arab Journal of Information Technology’s review board
- Member of the Recent Advances in Computer Science and Communications’ review board
- Chair and member of the academic research committee - CSA department at The Hashemite University (for several years)
- Chair and member of the graduate studies committee - CSA department at The Hashemite University (for several years)
- Chair and member of the appointment and promotion committee- CSA department at The Hashemite University (for several years)

- Chair and member of the Committee of electronic education and quality assurance - CSA department at The Hashemite University (for several years)
- Chair and member of the Curriculum Planning Committee - CSA department at The Hashemite University (for several years)
- Chair and member of the Graduation Projects Committee - CSA department at The Hashemite University (for several years)
- Chair and member of the Chairman of the Training Committee - CSA department at The Hashemite University (for several years)
- Chair and member of the Students Affairs Committee - CSA department at The Hashemite University (for several years)
- The representative of the CSA department at the Faculty board (three times)
- The representative of the Faculty of Prince Al-Hussein Bin Abdallah II For Information Technology at the university board (2019-2020)

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## **ACADEMIC ACTIVITIES**

- Participated in preparing to apply for the ABET accreditation for the Computer Information Systems Department
- Supervised the preparation of the master's plan in Computer Science and its applications
- Supervised the preparation of a plan for the diploma in maintenance and computer networks
- Supervised the preparation of a plan for the diploma in web and graphic design
- Participate in preparing the annual plan for the Department of Computer Science and its applications
- Teaching advanced subjects for the Bachelor's and Masters's levels, supervising graduation projects, and participating in several exhibitions for graduation projects inside and outside the university.

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## **COMMUNITY SERVICES**

- Participation in a workshop related to exchanging experiences with the Erasmus+ project (International staff Mobility for Training, 2018, University of Piraeus, Greece)
- Participation in the management of a cybercrime symposium, which was held at the Faculty of Prince Al-Hussein Bin Abdallah II for Information Technology on 2/2/2017
- A seminar was held at the Faculty of Prince Al-Hussein Bin Abdallah II for Information Technology entitled Network Security and Ethical Hacker on 10/11/2015 in cooperation with the Center for Studies, consultation and community Service at the Hashemite University.
- Participation in the Eighth National Technology Parade and obtaining a third place at the level of Jordanian universities 2015.
- Participated in managing a seminar at the Faculty of Prince Al-Hussein Bin Abdallah II for Information Technology about Communication Skills, in cooperation with the Pioneers Center, on 12/16/2014

- Cooperation with "Microsoft" and "Al-Rowad" Supervising the Palm Cup 2014 competition for students of the Hashemite University, Zarqa University, Al-Bayt University, and Polytechnic on 10/19/2014
- Participating in the management of the scientific day of Faculty of Prince Al-Hussein Bin Abdallah II for Information Technology several times.
- Participation in many seminars and meetings aimed at educating students at the Hashemite University.
- Participation in several initiatives inside and outside The Hashemite University.

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## TECHNICAL EXPERIENCE

- **Certificate:** Artificial Intelligence, Huawei Technologies Company. 2020
- **Certificate:** Huawei Certified Academy Instructor, Huawei Technologies Company. 2020
- **Certificate:** Big Data, International Institute of Online Education (IIOE). 2020
- **Certificate:** Implementing an MS Win2K Prof & Server.
- **Certificate:** Microsoft Win2K Network and Operating System Essential.
- **Experience in** Visual Basic, C++, Visual Basic, Perl and PHP
- **Experience in** HTML, DHTML and JavaScript
- **Experience in** Data Base Management and SQL programming language
- **Experience in** SQL Server 2000, MySQL and MS Access 2000/2003

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## BACKGROUND COURSES

- |                        |                               |
|------------------------|-------------------------------|
| • Database             | • C++ programming             |
| • Computer networks    | • Object-Oriented programming |
| • Operating System     | • Information retrievals      |
| • Data Mining          | • Artificial Intelligent      |
| • Advanced Data Mining |                               |

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## LANGUAGES

- **Arabic:** Writing, Reading and Speaking: Excellent
- **English:** Writing, Reading and Speaking: Very good

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## REFERENCES

- **Prof. Abdel Karim Al-Qudah**, President of Jordan University  
Tel.: +962796161414  
Email: aqudah@ju.edu.jo
- **Prof. Hani H. Al-Dmour**, University of Jordan, Former General Secretary of The Ministry of Higher Education  
Tel.: +962795666979  
Email: dmourh@ju.edu.jo
- **Prof. Ahmad Al-Khasawneh**, President of Irbid National University, Jordan

Tel: +962797125217  
Email: akhasawneh@hu.edu.jo