


Personal Info

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Loyal Imad Abu Daher, PhD

Work Experience

September 2022 – Present

Assistant Professor, Computer Science

Department of Mathematics and Computer Science
Faculty of Science
Beirut Arab University

September, 2015 – 2022
Beirut Arab University
Debbieh, Lebanon

Head of Unit – Dean's Office – Faculty of Science

- Preparing course offering and Instructors' Schedules.
- Following up the applications of transferred students for courses equivalency
- Member of the organizing committees for various conferences, workshops, scientific meeting conducted in the academic year
- Conducting various administrative and logistic tasks
- Responding to student inquiries and questions via mail
- Maintaining the communication between the Dean, faculty staff members, non academic staff members and students
- Preparing Faculty Councils Agenda & Minutes throughout the Academic Year
- Preparing final exam schedules and assigning proctors in the different University Campuses

Webpage Administrator – Faculty of Science

- Managing and publishing content
- Maintaining Web design
- Answering consultation questions
- Maintaining continuity of themes
- Designing layout
- Streamlining navigation and increasing online presence to potential students
- Search engine analysis to maximize traffic to website
- Maintaining awareness of marketing techniques

September 2014 – September
2015
Beirut Arab University
Beirut, Lebanon

Systems Coordinator – IT Department

- Responsible of the coordination between the IT Department sections and provide technical support to different types of end users in the university.
- Responsible of the HelpDesk system used by the different types of university users.
- Setting up and Updating the computer systems required
- Installing the required computer applications and programs
- Maintaining and setting up the hardware and software required
- Maintaining and setting up other computer devices such as printers, scanners etc...
- Identifying and solving the problems that affect computer operating systems

September 2012 – September 2014
Beirut Arab University
Beirut, Lebanon

Head of Unit, Vice President Office for Academic Affairs

- Assist the Vice President in performing management functions such as staffing, training and expanding business plans
- Maintain cordial relations with other staff and assist them in resolving their issues
- Act as a link between the Vice President, Faculty Deans, Faculty Registrars, different university departments such as the IT, and employees
- In charge of preparing for Entrance Exams, workshops and conferences
- Students disciplinary board and meetings
- Technical IT support
- Evaluate and install computer hardware, networking software and operating system software
- Configuration and Monitoring of Anti-Spam, Anti-Virus and Firewalls
- Installing, Maintaining and Troubleshooting: computer devices, software, and other computer peripherals
- Facilitate daily missions
- Execute various tasks

September 2007– September 2012
Beirut Arab University
Debbieh, Lebanon

Administrative Assistant – Dean’s Office – Faculty of Science

- Member of the team preparing for the ABET accreditation of the Computer Science Program
- Faculty website administrator
- Banner database representative for the Faculty of Science
- Responsible for room scheduling, course offering, staff load distribution
- Archiving
- Course catalog updating

September 2012 – 2022
Beirut Arab University
Debbieh, Lebanon

Instructor – Center for Consultation

- ICDL (International Computer Driving License)
- IC3 Certified: Key Applications, Living Online, Computing Fundamentals

January, 2011 – 2012
Beirut Arab University
Debbieh, Lebanon

Teaching Assistant

- Database systems
- Operating Systems
- Introduction to Information Technology
- Introduction to Programming

Education

Class of 2019
Beirut Arab University
Debbieh, Lebanon

Ph.D. in Information Technology

Dissertation Title: “Group Dynamicity in Online Social Networks”

Class of 2011
Beirut Arab University
Debbieh, Lebanon

M.Sc. in Information Systems

Thesis Title: “An Experimental Study on Universities’ Social Networks in Some Lebanese Universities”

Class of 2007
Beirut Arab University
Beirut, Lebanon

B.Sc. in Information Systems

Class of 2003
National Evangelical Institute for
Girls and Boys
Saida, Lebanon

Lebanese Baccalaureate in Life Science

Certifications

March 2008

Certificate of Attendance
World Water Day
Beirut Arab University

February 2009

Installation GNU/Linux
Agence Universitaire de la Francophonie(AUF)
Beirut, Lebanon

March 2009

Certificate of Attendance
Workshop on Mathematics and its Applications
Beirut Arab University

May 2009

Certificate of Attendance
Science Research Day
Beirut Arab University

November 2010

Certificate of Attendance
Arabs to Face Severe Water Shortages by 2015
Arab Forum for Environment & Development
Habtoor Grand Hotel, Beirut

March 2011

Certificate of Attendance
Euro-Mediterranean University (EMUNI) Research Souk
Beirut Arab University

December 2011

Communication Skills Training
El-Meouchy Education Consultancy
Beirut, Lebanon

February 2012

Personal Productivity Training
El-Meouchy Education Consultancy
Beirut, Lebanon

March 2012

Time and Stress Management Training
El-Meouchy Education Consultancy
Beirut, Lebanon

April 2012

Certificate of Attendance
Information Technology Day
Beirut Arab University

April 2012

Certificate of Attendance
Science Research Day
Beirut Arab University

April 2012

Certificate of Attendance
**The Third Annual Meeting of the Lebanese Society for
Mathematical Sciences**
Beirut Arab University

September 2012

Certificate of Attendance
Vex Robotics Competition Workshop
Beirut Arab University

November 2012	Certificate of Attendance Ecological Footprint: Survival Options in the Arab Countries Arab Forum for Environment & Development Phoenicia hotel, Beirut
December 2012	Certificate of Participation The 13th International Arab Conference on Information Technology (ACIT 2012) Zarqa – Jordan
December 2012	Certificate of Attendance Presentation about Mammogram Images Segmentation for Breast Cancer Detection Beirut Arab University
February 2013	ICDL Trainer (International Computer Driving License) UNESCO, Beirut, Lebanon
January 2015	IT Essentials A+ Certificate Cisco Networking Academy Beirut, Lebanon
March 2015	Certificate of Attendance The Importance of Collaboration between the Ministry of Environment and the Researchers to Preserve the Environment in Lebanon Beirut Arab University
March 2015	Certificate of Attendance Health and Illness: Psychological Perspective Beirut Arab University
November 2016	Internship Certificate Sustainable Development in a Changing Arab Climate Arab Forum for Environment & Development American University of Beirut
March 2017	Certificate of Appreciation Materials Technology Workshop Beirut Arab University
April 2017	Certificate of Presentation The Lebanese Conference on Information Systems (LCIS) 2017 Lebanese American University
October 2017	Certificate of Participation The International Conference on New Trends in Computing Sciences (ICTCS 17) Amman – Jordan
January 2018	Digital Marketing Training Joseph Yaacoub Digital Marketing Consultant
January 2018	IC3 Trainer: Key Applications, Living Online, Computing Fundamentals Certiport – A Pearson VUE Business

March 2018	Certificate of Participation First Student Innovation & Research Conference for Arab Universities & Schools Beirut Arab University
October 2019	Certificate of Appreciation LCPC Competition Beirut Arab University
March 2022	Presenting WEKA Machine Learning Workshop Rafik Hariri University Mechref, Lebanon
March 2022	Coursera Certificate Work Smarter, Not Harder: Time Management for Personal & Professional Productivity University of California, Irvine
December 2023	Certificate of Participation 16th International Conference on Developments in eSystems Engineering (DeSE) Atlas University, Istanbul, Turkey

Publications

1. Usability evaluation of some Lebanese universities web portals. Daher, L. A., & Elkabani, I., Proceedings of the 13th international Arab conference on information technology ACIT, Zarqa, Jordan, 2012, pp.10-13.
2. Dynamic Evolution of Hashtags on Twitter: A Case Study from Career Opportunities Groups, Layal Abu Daher, Rached Zantout, Islam Elkabani, Proceedings of the International Conference on New Trends in Computing Sciences (ICTCS), Amman Jordan, 2017
3. User Influence on Twitter Hashtags Evolution: A Case Study from Career Opportunities Groups, Layal Abu Daher, Rached Zantout, Islam Elkabani, International Journal of Applied Engineering Research, 13(6), pp. 3157- 3164, 2018.
4. Evolution of Hashtags on Twitter: A Case Study from Events Groups, Layal Abu Daher, Rached Zantout, Islam Elkabani, Khaled Almustafa, Proceedings of the 5th International Symposium on Data Mining Applications, pp. 181-194, KSA, 2018.
5. Identifying Influential Users on Twitter: A Case Study from Paris Attacks, Layal Abu Daher, Islam Elkabani, Rached Zantout, Journal of Applied Mathematics and Information Sciences 12(5), pp.1021-1032, 2018.
6. Identifying Influential Users on Twitter's Trendy Hashtags Using Association Rule Learning, Layal Abu Daher, Islam Elkabani, Rached Zantout, Proceedings of 2018 International Conference on Computational Science and Computational Intelligence - Social Network Analysis, Social Media, & Mining (CSCI-ISNA), IEEE, pp: 1293-1296, Las Vegas, USA, 2018.

7. Use of FP-Growth Algorithm in Identifying Influential Users on Twitter Hashtags, Layal Abu Daher, Islam Elkabani, Rached Zantout, Accepted for Publication, International Conference on Compute And Data Analysis, (ICCCA 2020), March 9–12, 2020 – Silicon Valley, San Jose, United States.
8. FAMAID: A Tool for Aiding People with Disability, M Maad, A Owaydate, M Kojok, F Aboudaher, L Abu Daher, M Itani, *BAU Journal-Science and Technology* 4 (1), 2.
9. Itani, May; Abu Daher, Layal; and Hammoud, Ahmad (2023) "TOWARDS DIGITAL TWINS FOR OPTIMIZING METRICS IN DISTRIBUTED STORAGE SYSTEMS – A REVIEW," *BAU Journal - Science and Technology*: Vol. 5: Iss. 1, Article 9.
DOI: <https://doi.org/10.54729/2959-331X.1118>
10. Daher LA. Towards Secure IoMT: Attack Detection Using Deep Q-Learning in Healthcare Networks. In 2023 16th International Conference on Developments in eSystems Engineering (DeSE) 2023 Dec 18 (pp. 407–412). IEEE.
11. Abu Daher, Layal; Elkabani, Islam; and Zantout, Rashed (2024) "ADOPTING ASSOCIATION RULE LEARNING FOR DETECTING AND RANKING INFLUENTIAL USERS ON HASHTAGS," *BAU Journal - Science and Technology*: Vol. 6: Iss. 1, Article 6.
DOI: <https://doi.org/10.54729/2959-331X.1142>
12. Traboulsi, A., Itani, M., Abu Daher, L., & Haidar, A. (2025). FEDEVD: A FEDERATED ROAD TRAFFIC EVENT DETECTOR FROM SOCIAL NETWORKS. *BAU Journal-Science and Technology*, 6(2), 5.
13. Abu Daher, L. (2025, July). Intelligent Fake News Detection Using Deep Learning. In *International Conference on Intelligent and Fuzzy Systems* (pp. 87–95). Cham: Springer Nature Switzerland.
14. Chamass, Sajida, Layal Abu Daher, and May Itani. "An Optimized Approach for Detecting Osteoporosis Using Advanced Machine Learning and Genetic Algorithms." *IEEE Access* 13 (2025): 214009–214021.
15. El Arwadi, Lynn, and Layal Abu Daher. "CardioMind: Deep Learning Framework for Stress Detection Using IoT Devices." *IEEE Access* 13 (2025): 197027–197042.

- Introduction to Programming
- Object Oriented Programming
- Digital Circuits
- Discrete Structures
- Web Programming
- Computer Networks
- Image Processing
- Machine Learning
- Data Mining and Knowledge Discovery
- Deep Learning

Teaching Experience

Skills

- Very Good knowledge in Microsoft Windows
- Very Good knowledge in web browsers (Mozilla Firefox & its add-ons, Microsoft Internet Explorer & Google Chrome)
- Very Good knowledge of graphic design applications (Adobe Photoshop, Illustrator)
- Very Good knowledge in command of Microsoft Office tools (Word, Access, Excel, PowerPoint and Outlook)
- Very Good knowledge in Technical Writing and Presentation skills
- Very Good knowledge in Database: Microsoft SQL, MySQL
- Very Good knowledge in Programming Languages: vb.net, asp.net, C#, C, C++, Java, python

Languages

- Arabic: Native Language
- English: Excellent
- French: Good