MAHMOUD EL SKAFI

Assistant Professor of Computer Science

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BACKGROUND

Assistant Professor of Computer Science specializing in artificial intelligence, machine learning, and software development. Experienced in higher education, academic administration, research, student supervision, curriculum development, and committee service. Demonstrates strong problem-solving, leadership, collaboration, and communication skills

PROFESSIONAL EXPERIENCE

Beirut Arab University (BAU) — Faculty of Science, Department of Mathematics and Computer Science | Assistant Professor of Computer Science | 2022–Present

Key Responsibilities and Achievements:

- Teach undergraduate computer science courses, including Data Structures, Algorithms, Object-Oriented Programming, Web Programming, Deep Learning, and Theory of Computation.
- Develop course materials, assessments, practical activities, and learning outcomes aligned with program requirements.
- Conduct research in artificial intelligence, machine learning, deep learning, semantic knowledge graphs, conversational systems, and explainable AI.
- Publish and present research in peer-reviewed journals and international conferences.
- Supervise senior projects and support postgraduate students in research design, implementation, evaluation, and academic writing.
- Advise students on course registration, academic progression, graduation requirements, and internship opportunities.
- Coordinate and evaluate student internships while maintaining communication with companies and university departments.
- Serve on faculty, departmental, and university committees related to student affairs, community service, alumni, internships, events, and academic activities.
- Contribute to organizing programming competitions, workshops, webinars, student activities, and community-engagement initiatives.
- Review research manuscripts and provide academic feedback to improve their methodological quality and presentation.:

Beirut Arab University (BAU) — Faculty of Business Administration | Lecturer | *Sep 2012 – 2022*

Responsibilities:

- Teach core Business Administration courses, including:
  - BMIS303 – Introduction to Programming for Business Applications
  - BMIS402 – E-business System Development
  - BMIS405 – Information Systems Analysis & Design
  - BMIS415 – Enterprise Data Warehouse
- Teach university elective courses, including:
  - ICDL with its seven modules (Computer Essentials, Online Essentials, Word, Excel, PowerPoint, Access, and IT Security)
  - IC3 – Internet and Computing Course Certification with its three modules (Computer Fundamentals, Key Applications, Living Online)
- Demonstrating and applying a thorough and accurate knowledge of the teaching field and discipline
- Modifying instructional methods and strategies to meet diverse student needs
- Encouraging the development of communication skills and higher-order thinking skills through appropriate assignments

- Effectively communicating the subject matter content to students
- Contributing to the selection and development of instructional materials
- Establishing and adhering to cogent learning outcomes
- Maintaining regular office hours to ensure accessibility to students and colleagues
- Participating in professional activities that contribute to the educational goals of the College and its constituents
- Fostering and maintaining effective working relationships with students, colleagues, and supervisors

Beirut Arab University (BAU) — Faculty of Human Sciences | Executive Administrator | *Sep 2016 – Present*

Beirut Arab University (BAU) — Faculty of Human Sciences | Executive Administrator Assistant | *Sep 2014 – Aug 2016*

Founded in 1960, the Beirut Arab University (BAU) is a private accredited institution for higher education based in Beirut and has since established itself as one of the leading educational institutions in Lebanon. BAU is academically affiliated to Alexandria University in Egypt.

Responsibilities:

- Studying and enforcing the University bylaws, rules, old and new Faculty curricula, old curriculum compensation rules, as well as all related annexed memos
- Receiving incoming correspondence and presenting them to the Dean
- Following up on the implementation of Dean’s decision while maintaining relevant records
- Preparing the Faculty Council agendas, taking minutes of meetings, and following up on the Council's decisions at the faculty and relevant University administration divisions
- Notifying the concerned authorities at the University Administration of all data pertaining to academic staff-members, visitors, and part-timers
- Presenting case studies and academic progress of students, such as transfers, registration transfers, or exemption from courses
- Following up on course offerings such as timetables, as well as securing classrooms and staff members
- Preparing exam-timetables and securing halls for running exams, and preparing semester timetables
- Participating in running exams and following up on the announcement of results (via internet for CHS)
- Securing the needs of the faculty (such as furniture, exam stationery, printing and development works, services, cleanliness, etc.)
- Supervising employees and workers at the faculty; following up on furnishing the faculty library and supplying it with up-to-date books and periodicals
- Following up on Faculty laboratories and their functioning, furnishing, maintenance, and all other relevant aspects
- Supervising and managing Faculty inventories
- Preparing the Faculty celebrations and exhibitions
- Managing the Faculty website as well as the iConnect Admin (Announcements, Emails, Warnings, Graduation Reports)
- Performing SQL Queries and tables for Student Attendance in Faculty of Law
- Programming (inserting, deleting, getting data, preparing students roster) PDA's for attendance
- Executing the Banner System (Grade Report, Exam Roster, Student Roster, Class Roster, Student info, etc.), as well as managing the Faculty Catalogue

Beirut Arab University (BAU) | Administrative Programmer | *Nov 2006 – Sep 2014*

Responsibilities:

- Faculty of Human Sciences registration (credit system) as well as student academic advising
- Designing and implementing custom software for the Faculty of Arts including applications for calculating salaries, teaching hours, and student GPAs
- Utilizing software systems like Banner and Luminus to design the university online portal and website
- Maintaining the Faculty computer labs
- Updating the Faculty's calendar and curriculum

Bahaa' Al Hariri Intermediate School | Administrative Programmer, Computer Literacy Teacher | *Oct 2006 – Sep 2006*

Celebrated as one of Saida's best private schools, Bahaa' Al Hariri Intermediate School provides a high quality of academic education that has earned it a place among the best educational institutions in the country.

Responsibilities:

- Designing, facilitating, and teaching the computer instruction component for grades 4, 5, and 6
- Preparing and executing lesson plans, assigning tasks, and evaluating student work and progress
- Developing course syllabus, assessing, supervising, and motivating students
- Promoting safe, effective, and ethical learning environment
- Using professional discretion and judgment in managing students in a classroom setting
- Maintaining the school computer labs and making sure that all the software is up to date

Phoenicia, AerRianta International (PAC) | Management Information System Programmer | *Aug 2005 – Sep 2005*

Phoenicia -- AerRIANTA Co. (PAC) was established in 1996 and is a joint venture between the two well-known companies in the field of Duty-Free operations, Phoenicia Trading Afro-Asia and AerRianta International. Based in Shannon, Ireland, AerRianta International currently has a very big operation in the Middle East by ARI-ME located in Bahrain and responsible for operation of this region.

Responsibilities:

- Responding to client needs in a timely and professional manner
- Studying and adapting to the latest technological trends and focusing on improving efficiency
- Data-entry using the Navision Attain software in addition to implementing functions and custom algorithms
- Proposing effective marketing solutions for the Duty-Free area
- Demonstrating excellent development skills as an unwavering commitment to providing a top-quality customer service

EDUCATION

Ph.D. in Information Technology, Department of Mathematics and Computer Science

Beirut Arab University (BAU), Beirut, Lebanon | *Sep 2014 – June 2020*

Master of Science in Management Information Systems (MIS)

Beirut Arab University (BAU), Beirut, Lebanon | *Sep 2008 – Sep 2011*

Bachelor of Science in Computer Science

Beirut Arab University (BAU), Beirut, Lebanon | *Sep 2002 – June 2006*

PUBLICATIONS

- Zein, S., Zein, T., & Skafi, M. (2026). Artificial Intelligence and Consumer Protection: Legal Challenges, Liability, and Regulatory Responses. *Computer and Decision Making: An International Journal*, *3*(5S), 185-201.
- Elouzeir, M., Daher, J. B., Skafi, M. (2026). Integrating Large Language Models with Semantic Knowledge Graphs for Domain-Specific Conversational Systems: A Case Study in Tourism. *Journal of Intelligent Decision Making and Information Science*, *3*(10s), 2313-2327.
- Skafi, M., & Daher, J. B. (2026). Hybrid explainable fake news detection using CNNs and frequent pattern mining. In *2026 International Conference on Smart Applications, Communications and Networking (SmartNets)* (pp. 1–6). IEEE.
- Dakdouk, L., Skafi, M., Daher, J. B., & Ayache, M. (2026, April). Obesity Risk Prediction Using a Clustering-Informed Risk Labeling Framework. In *2026 IEEE 5th International Multidisciplinary Conference on Engineering Technology (IMCET)* (pp. 1-6). IEEE.
- Mawed, M., Hamani, K., Kashwani, G., & Skafi, M. (2026). Assessment of the implementation of design out construction waste strategies in the UAE: Exploring challenges, solutions, opportunities, and emerging AI trends. *Journal of Open Innovation: Technology, Market, and Complexity*, 100730.
- Dakdouk, L., Daher, J. B., Skafi, M., & Ayache, M. (2025). Machine learning and deep learning approaches for obesity prediction: A systematic review. In *2025 Eighth International Conference on Advances in Biomedical Engineering (ICABME)* (pp. 1–10). IEEE.
- Daher, J. B., & Skafi, M. (2025, July). Semantic association rule mining for recommendations in e-learning. In *International Conference on Intelligent and Fuzzy Systems* (pp. 171-180). Cham: Springer Nature Switzerland.
- El Skafi, M. A., Yunis, M. M., Zekri, A., & Daher, J. B. (2025). The confluence of big data and cloud computing in SME adoption strategies. *IEEE Access*, *13*, 37789-37811.

- Skafi, M., Yunis, M. M., & Zekri, A. (2020). Factors influencing SMEs' adoption of cloud computing services in Lebanon: An empirical analysis using TOE and contextual theory. *IEEE Access, 8*, 79169–79181.
- Mohamad, R. E. H., Skafi, M., & Haidar, A. M. (2014). Predicting global solar radiation using recurrent neural networks and climatological parameters. *International Journal of Computer and Information Engineering, 8*(2), 331–334.

PROFESSIONAL PRESENTATIONS

Apr 2017

Skafi, M., Yunis, M. M., & Zekri, A. (2017). Adoption of Cloud Computing as an IT Platform in Lebanese Organizations. Paper presented at the Second Lebanese Conference on Information Systems – LCIS'17, at the LAU Beirut campus and streamed live to the New York Academic Center, where it was awarded "Best Research in Progress."

Feb 2014

Haidar, A., El Hajj, R., and El Skafi, M. (2014). Predicting Global Solar Radiation Using Recurrent Neural Networks and Climatological Parameters. Paper presented at the International Conference of Neural Networks, organized by the International Scientific Committee, Barcelona, Spain.

CERTIFICATIONS & WORKSHOPS

- **2022 —** Managing Emotions in Times of Uncertainty & Stress. Online non-credit course authorized by Yale University and offered through Coursera.
- **2021 —** AWS (Amazon Web Services) Innovate Online Conference – AI & Machine Learning Edition, in partnership with Intel. Online non-credit course authorized by Amazon and Intel.
- **2021 —** Data Integration Strategies and Tools. Delivered by International Experts from Florida State University, funded by the United States Agency for International Development (USAID).
- **2014 —** The Enhancement of Staff-members' Teaching Skills — Faculty of Arts, BAU.
- **2013 —** ICDL Certification (Completion of all Seven Modules) — ECDL Foundation, ICDL Lebanon.
- **2012 —** Time and Stress Management — El-Meouchy Education Consultancy, BAU.
- **2011 —** Personal Productivity & Communication Skills — El-Meouchy Education Consultancy, BAU.
- **2009 —** Certificat de Formation: Administration d'un réseau sous GNU/LINUX — L'Agence universitaire de la Francophonie (AUF), en partenariat avec l'Université Arabe de Beyrouth.
- **2008 —** Certificat de Formation: Installation d'un système d'exploitation GNU/LINUX — L'Agence universitaire de la Francophonie (AUF), en partenariat avec l'Université Arabe de Beyrouth.
- **2007 —** Cisco Certified Network Associate, CCNA — Human National Development Center, Hariri Foundation.

SOFTWARE

- Windows / Linux OS platforms
- JAVA
- VB.NET
- Visual C++
- ASP.NET
- SQL Server
- SQL CE
- Advanced Assembly Language

LANGUAGES

- **Arabic:** Native proficiency
- **English:** Bilingual proficiency

INTERESTS

Gaming, football, basketball, billiards, and swimming.