

Academic Resume



Wafaa Alsaggaf

Associate Professor, Information Technology Department

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Contact Information.

Building 61, Room 158, Ext. 27134, waalsaggaf@kau.edu.sa.

Highest Degree.

2014, Ph.D, Computer Science, Mobile learning, RMIT University, Australia.

Academic and Professional Experiences.

1. **2024 - Present**
Deputy director for Center of University Education Development, Female Campus, King Abdulaziz University.
2. **2023 - 2024**
PhD program coordinator, Information Technology Department, King Abdulaziz University.
3. **2022 - Present**
Associate Professor, Information Technology Department, , .
4. **2021 - 2022**
Head of Development and Training Unit, Faculty of Computing and Information Technology, King Abdulaziz University.
5. **2019 - 2022**
Head of Research and Supervision Committee for Postgraduate Studies, Information Technology department, Faculty of Computing and Information Technology,, King Abdulaziz University.
6. **2019 - 2022**
Member at the Academic Advisory Committee of the Faculty of Human Sciences and Design, Faculty of Human Sciences and Design,, King Abdulaziz University.
7. **2019 - 2020**
Head of the Technical Committee of The First Scientific Conference of the Heads and Supervisors of the Academic Departments, King Abdulaziz University, , .
8. **2019 - 2020**
Member at the Committee of Procedural Manual for Heads and supervisors of Scientific Departments, King Abdulaziz University, , .
9. **2018 - Present**
Founder of the scientific committee of the forum of heads and supervisors of the academic departments, King Abdulaziz University, , .
10. **2017 - 2019**
Supervisor of Information Technology department, College of Computing and Information Technology, King Abdulaziz University, , .

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Academic and Professional Experiences.

11. **2016 - 2017**
Supervisor of Computer Skills Unit (Girls Section / Alsulaymaniyah) Information Technology department, College of Computing and Information Technology, King Abdulaziz University, , .
12. **2015 - 2016**
Supervising the participation of female students from the College of Computing and Information Technology in the Sixth Scientific Forum for King Abdulaziz University Students, , .
13. **2014 - 2022**
Assistant Professor at Information Technology department, College of Computing and Information Technology,, King Abdulaziz University.

Research Interests.

Educational Technology, E-learning, Machine learning, Mobile and ubiquitous learning, Human computer interaction.

Teaching Interests.

Internet applications, System analysis and design, Research methods, IT Leadership, IT & Innovation.

Certifications and Trainings.

1. Running a Successful Research Project, a training program held by Change consulting and training at King Abdulaziz University.
2. Effective Personal Productivity, by LMI, Total Leadership Management International, INC. Jeddah - Saudi Arabia.
3. Quality Electronic Assessment using QuestionMark, a training course held by the Deanship of e-Learning and Distance Education at King Abdulaziz University.
4. Test Design and Items Writing , a training program held by the Center for Teaching and Learning Development at King Abdulaziz University.
5. How to Become a Strategic Blueprint , a training program held by Center for Strategic Studies at King Abdulaziz University.
6. Mentors Academics for Academic Counseling, a training workshop organized by the deanship of Admission and Registration at King Abdulaziz University.
7. Introduction to Academic Leadership, a course organized by the Academic Leadership Center, Ministry of Higher Education, Melbourne, Australia.
8. Academic Leadership Diploma, at King Abdulaziz University.
9. KAU Scholars program, at King Abdulaziz University.

Social, Scientific and Professional Affiliation.

Excellence Awards and Patents.

1. 2008, Interior, Award on being a high distinction Saudi student in Victoria state, Australia by the, Saudi Arabian Cultural Mission.
2. 2009, Interior, RMIT University Vice-Chancellor Award on being in the top 2% of RMIT Higher Education students in 2009, RMIT University, Melbourne, Australia.

Funded Projects.

1. 2020, Association of Game Events with Facial Animations of Computer-Controlled Virtual Characters Based on Probabilistic Human Reaction Modeling, KAU, A project funded by Deanship of Scientific

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Research, King Abdulaziz University, Jeddah Saudi Arabia under grant No. (D-124-612-1441). (Principal Investigator), Deanship of Scientific Research.

Publications.

1. Noha Alsulami, Miada Almasre, Shahenda Sarhan, Wafaa Alsaggaf, "Deep Learning Models For Type 2 Diabetes Detection In Saudi Arabia", Journal Of Pioneering Medical Sciences., 2024.
2. Malaa Alqurafi, Elham Maqsood, Wafaa Alsaggaf, "Effectiveness Of A Virtual Laboratory To Develop The Skills Of Identifying Fiber Type Using Chemical Methods", Journal Of King Abdulaziz University: Computing And Information Technology Sciences, 2024.
3. Eman Nasr, Wafaa Alsaggaf, Doaa Sinnari, "Developing Usability Guidelines For Mhealth Applications (Ugmha)", Multimodal Technologies And Interaction, vol: 7, pp. 26, 2023.
DOI: [10.3390/mti7030026](https://doi.org/10.3390/mti7030026)
4. Wafaa Alsaggaf, Hanan Baaqeel, Samar Alkhuraiji, Hani Brdesee, "The Inclusion Of Python As Introductory Computer Programming In The Preparatory Year Of Higher Education: Modeling For Students' Perceptions", International Journal Of Computer Science And Network Security, 2022.
5. Anas A. Makki, Hatem F. Sindi, Hani Brdesee, Wafaa Alsaggaf, Abdulmonem Al-Hayani, Abdulrahman O. Al-Youbi, "Goal Programming And Mathematical Modelling For Developing A Capacity Planning Decision Support System-Based Framework In Higher Education Institutions", Applied Sciences, vol: 12, pp. 1702, 2022.
DOI: [10.3390/app12031702](https://doi.org/10.3390/app12031702)
6. Hani Sami Brdesee, Wafaa Alsaggaf, Naif Aljohani, Saeed-Ul Hassan, "Predictive Model Using A Machine Learning Approach For Enhancing The Retention Rate Of Students At-Risk", International Journal On Semantic Web And Information Systems, vol: 18, pp. 1-21, 2022.
DOI: [10.4018/IJSWIS.299859](https://doi.org/10.4018/IJSWIS.299859)
7. Hani Brdesee, Wafaa Alsaggaf, "Decision-Making Strategy For Digital Transformation: A Two-Year Analytical Study And Follow-Up Concerning Innovative Improvements In University E-Services", Journal Of Theoretical And Applied Electronic Commerce Research, vol: 17, pp. 138-164, 2022.
DOI: [10.3390/jtaer17010008](https://doi.org/10.3390/jtaer17010008)
8. Salma Anber, Wafaa Alsaggaf, Wafaa Shalash, "A Hybrid Driver Fatigue And Distraction Detection Model Using Alexnet Based On Facial Features", Electronics, vol: 11, pp. 285, 2022.
DOI: [10.3390/electronics11020285](https://doi.org/10.3390/electronics11020285)
9. Maha Farouk S. Sabir, Irfan Mehmood, Wafaa Adnan Alsaggaf, Enas Fawai Khairullah, Samar Alhuraiji, Ahmed S. Alghamdi, Ahmed A. Abd El-Latif, "An Automated Real-Time Face Mask Detection System Using Transfer Learning With Faster-Rcnn In The Era Of The Covid-19 Pandemic", Computers, Materials & Continua, vol: 71, pp. 4151-4166, 2022.
DOI: [10.32604/cmc.2022.017865](https://doi.org/10.32604/cmc.2022.017865)
10. Wafaa Alsaggaf, Abukhodair Felwa, Amani T. Jamal, Sayed Abdel-Khalek, and Romany F. Mansour, "Intelligent Disease Diagnosis Model For Energy Aware Cluster Based Iot Healthcare Systems", 71, 2021.
11. Hani Brdesee, Wafaa Alsaggaf, "An Evaluation Study In Social Media Research: Key Aspects To Enhancing The Promotion Of Efficient Organizations On Twitter", Informatics, vol: 8, pp. 78, 2021.
DOI: [10.3390/informatics8040078](https://doi.org/10.3390/informatics8040078)
12. Hani Brdesee, Wafaa Alsaggaf, "Is There A Real Need For The Preparatory Years In Higher Education? An Educational Data Analysis For College And Future Career Readiness", Social Sciences, vol: 10, pp. 396, 2021.
DOI: [10.3390/socsci10100396](https://doi.org/10.3390/socsci10100396)
13. Wafaa Alsaggaf, Irfan Mehmood, Enas Fawai Khairullah, Samar Alhuraiji, Maha Farouk S. Sabir, Ahmed S. Alghamdi, Ahmed A. Abd El-Latif, Francisco Gomez-Donoso, "A Smart Surveillance System For Uncooperative Gait Recognition Using Cycle Consistent Generative Adversarial Networks (CcGANs)", Computational Intelligence And Neuroscience, vol: 2021, pp. 1-12, 2021.
DOI: [10.1155/2021/3110416](https://doi.org/10.1155/2021/3110416)

Publications.

14. Wafaa Alsaggaf, Zafer Cömert, Majid Nour, Kemal Polat, Hani Brdesee, Mesut To?açar, "Predicting Fetal Hypoxia Using Common Spatial Pattern And Machine Learning From Cardiotocography Signals", *Applied Acoustics*, vol: 167, pp. 107429, 2020.
DOI: [10.1016/j.apacoust.2020.107429](https://doi.org/10.1016/j.apacoust.2020.107429)
15. Amira S. Ashour, Majid Kamal A. Nour, Kemal Polat, Yanhui Guo, Wafaa Alsaggaf, Amira El-Attar, "A Novel Framework Of Two Successive Feature Selection Levels Using Weight-Based Procedure For Voice-Loss Detection In Parkinson’S Disease", *Ieee Access*, vol: 8, pp. 76193-76203, 2020.
DOI: [10.1109/ACCESS.2020.2989032](https://doi.org/10.1109/ACCESS.2020.2989032)
16. Al-Maliki, N., Bardisi, H., Almasri, M., Beshiri, M., Alsaggaf, W., Jamal, A., Al-Marzouki, A., Al-Habashi, W., "Adopting E-Learning In The It Program At King Abdulaziz University: Practices And Results", *The First Conference Of Heads And Supervisors Of Academic Departments*, 2020.
17. Wafaa Alsaggaf, Manal Kalkatawi, Mordiah Rahman, Alaa Elshareef, Abeer Radwan, Sahar Alkhateeb, "Stay Alive: A Game-Based Learning For Disaster Prevention Using Virtual Reality", *14th International Technology, Education And Development Conference*, pp. 7791-7795, 2020.
DOI: [10.21125/inted.2020.2126](https://doi.org/10.21125/inted.2020.2126)
18. Wafaa Alsaggaf, Georgios Tsaramirsis, Norah Al-Malki, Fazal Qudus Khan, Miadah Almasry, Mohamad Abdulhalim Serafi, Alaa Almarzuqi, "Association Of Game Events With Facial Animations Of Computer-Controlled Virtual Characters Based On Probabilistic Human Reaction Modeling", *Applied Sciences*, vol: 10, pp. 5636, 2020.
DOI: [10.3390/app10165636](https://doi.org/10.3390/app10165636)
19. Wafaa Alsaggaf, Sawsan Asad, Nada Algrigri, Nawal Alsaedi, Hani Brdesee, "An Electronic Students Attendance System Using Indoor Positioning And Mobile Apps Technologies", *International Technology, Education And Development Conference*, pp. 7781-7788, 2017.
DOI: [10.21125/inted.2017.1814](https://doi.org/10.21125/inted.2017.1814)
20. Brdesee, H, Alsaggaf, W, "Academic Advising And Social Media: A Case Study On The Twitter Account Of The Deanship And Registration Of King Abdulaziz University", *The Conference Of Academic Advising In Higher Education Of The Gulf Cooperation Council States: Reality And Hope. Between The 2nd And 3rd Of November 2015*, Pp. 253-267, 2015.
21. Alsaggaf, W., Hamilton, M. and Harland, J., "Cs Students Readiness And Perceptions Of Using Mobile Technology During Lectures", In *Proceedings Of The Learning And Teaching In Computing And Engineering (Lattice)*, Macau. Ieee, 2013.
22. Alsaggaf, W., Hamilton, M. and Harland, J., "Mobile Devices In Computer Programming Lectures: Are Cs Lecturers Prepared For Mobile Learning?", *7th International Conference On Computer Science & Education (Iccse)*, Melbourne, Australia, Pp. 1369-1374, Ieee., 2012.
23. Alsaggaf, W., Hamilton, M., Harland, J., D'Souza, D. and Laakso, M., "The Use Of Laptop Computers In Programming Lectures", *23rd Australasian Conference On Information Systems (Acis)*, Geelong, Australia. Pp. 1-11, Acis., 2012.
24. Alsaggaf, W., Hamilton, M. and Harland, J., "Mobile Learning In Computer Science Lectures", *International Journal Of E-Education, E-Business, E-Management And E-Learning*, Vol. 2, No. 6, Pp. 493-497., 2012.