

## Academic Resume



### Haneen Banjar

#### Associate Professor, Computer Science Department

Dr. Banjar is Associate Professor in the computer science department. She received her PhD qualification from the University of Adelaide and won the alumni award in 2019 from the Australian ambassador. She also was honored in 2018 by His Excellency the Cultural Attach in Australia for publishing medical discoveries in the NCBI database. Her primary area of interest is artificial intelligence with a special emphasis on healthcare, bioinformatics, and medicine.

#### Contact Information.

Building 61, Room 116, Ext. 63178, Add. Faculty of computing and information technology,  
hrbanjar@kau.edu.sa.

#### Highest Degree.

2019, PhD, Artificial Intelligence, Adelaide University, Australia.

#### Academic and Professional Experiences.

1. **2023 - Present**  
Director of Professional Master in Artificial Intelligence, Female Section, , .
2. **2023 - Present**  
Associate Professor, FCIT, King Abdulaziz University, , .
3. **2021 - Present**  
Research Member, Centre of Artificial Intelligence in Precision Medicines, , .
4. **2020 - Present**  
Coach, Jeddah, King Abdulaziz and his companions foundation for giftedness and creativity.
5. **2020 - 2021**  
Part-time consultant, the Deanship of Quality and Academic Accreditation, King Abdulaziz University.
6. **2019 - Present**  
Research Member, King Fahad Center for Medical Research, Hematology Research Group, King Abdulaziz University.
7. **2019 - Present**  
Research Member, The Center of Excellence in Genomic Medicine Research, King Abdulaziz University.
8. **2019 - 2023**  
Assistant Professor, FCIT, King Abdulaziz University.
9. **2019 - 2022**  
Assessor in Alforsan Program, the Deanship of Quality and Academic Accreditation, King Abdulaziz University.
10. **2019 - 2022**  
Supervisor of Quality and Academic Accreditation Unit, FCIT, King Abdulaziz University.

## Academic and Professional Experiences.

11. **2019 - 2020**  
Coordinator for CISCO Diploma, FCIT, King Abdulaziz University.
12. **2018 - 2019**  
Head of Examination Coordination Committee, Department of Computer Science, King Abdulaziz University.
13. **2017 - 2022**  
Faculty coordinator for evaluation and quality assurance of university performance program KAU-EQAUP, Faculty of Computing and Information Technology, King Abdulaziz University.
14. **2017 - 2019**  
Head of Nominating Committee for Conferences and Competitions, Department of Computer Science, King Abdulaziz University.
15. **2007 - 2018**  
Teacher Assistance, , .

## Research Interests.

Artificial Intelligence in Medicine, Knowledge based Systems, Intelligent Systems such as Decision Support System, Expert System, Recommendation System, fuzzy systems, Bioinformatics and Health informatics, Personalised Medicine.

## Teaching Interests.

Programming, Data Structure, Database, Algorithm, Senior Projects, Artificial intelligence, Expert System, Advance Artificial Intelligence.

## Certifications and Trainings.

1. External Reviewers Training for the national program accreditation sponsored by the Deanship of Quality and Academic Accreditation.
2. Bioinformatic Methods II.
3. Publication & Dissemination of Research Findings.
4. Authorship Issues.
5. Management of Data and Primary Materials.
6. Ethics and Integrity in Research with Humans.
7. Occupational Health & Safety for Students.
8. MATLAB for Building Graphical User Interfaces.
9. MATLAB Programming Techniques.
10. The seven secrets of highly successful research students.
11. Advanced course on Chronic Myeloid Leukaemia.
12. Integrated Bridging Program- Research.
13. Tutorial about Statistical Inference on Graphical Models.
14. IELTS.
15. Aikz al emlak wa Atlekh.
16. English for future studies advanced stage from Latrobe University at language centre.
17. Guiding students.
18. Feasibility study.
19. How to start your commercial project (business management, counting, marketing and feasibility study) from society development centre.
20. ISO certificate evaluation.
21. Personality analysis.
22. Computer maintenance A+.
23. Forming and Managing Teams in Business Environment.
24. Diploma in the Art and Science of Neuro Linguistic programming NLP.
25. How to understand yourself and others.
26. The Art of communication with people.
27. Provide Basic emergency life support.
28. Provide cardiopulmonary resuscitation.
29. Improved standards and requirements of national program accreditation sponsored by the Deanship of Quality and Academic Accreditation.
30. Saudi Qualification Framework under the auspices of the Deanship of Quality and Academic Accreditation.
31. Program to evaluate and the quality of university academic performance EQUAP-KAU sponsored by the Deanship of Quality and Academic Accreditation.
32. Provide first aid.
33. Writing his self-study reports based on NCAAA standards sponsored by the Deanship of Quality and Academic Accreditation.
34. Bioinformatic Methods I.
35. Micro-bit from Awj company.
36. Strike the right balance between your passion for research and teaching responsibilities by using JoVE Videos form Saudi Digital Library.
37. AI-HCIA from Huawei.
38. Leadership With Creativity from Future Leaders Center.
39. Self-awareness and leadership success from Future Leaders Center.
40. Personal leadership from Future Leaders Center.
41. The story of the change from Future Leaders Center.

## Certifications and Trainings.

42. Certified Specialist in 6 Sigma from The Deanship of Community Services & Continuing Education.
43. EFQM Assessor Training from ITQM.
44. EFQM Foundation Training from ITQM.
45. Post EFQM Foundation Training Project from ITQM.
46. Your guide to the inclusion of the ISO 9001: 2015 Quality Management System sponsored by the Deanship of Quality and Academic Accreditation.
47. Internal Auditing for Quality Management System in accordance with ISO9001: 2015 sponsored by the Deanship of Quality and Academic Accreditation.
48. Micro-bit from Awaj company.
49. Using artificial intelligence to monitor electronic exams from Kuwait University.
50. Academic tutoring skills program from the center for teaching and learning development.
51. Problem Solving and decision making from the center for teaching and learning development.
52. Saudi Arabia Unite to Fight COVID-19 Startupweekend in partnership with Google for Start-ups.
53. Programming and designing Principle of Robotic from Arab Robotics and AI Association.
54. The research Bioethics from National Committee of Bioethics at King Abdulaziz city for science and technology.
55. AI application in research from the Center for Teaching and Learning Development.
56. Ethics for Research, from National Committee of Bioethics at King Abdulaziz city for science and technology.
57. Harnessing Intellectual Property for Business Success from the Faculty of computing and information technology, innovation, and entrepreneurship unit..
58. When to Start an Entrepreneurial Project from the Faculty of computing and information technology, innovation, and entrepreneurship unit..
59. From the Lab to the Market - Towards an Entrepreneurial Research College from the Faculty of computing and information technology, innovation, and entrepreneurship unit..
60. Educational Design using ChatGPT from the deanship of e-learning and distance education.
61. Building a professional plan for a faculty member from the center for Teaching and learning development.
62. soldering course from faculty of of Engineering at King Abdulaziz University.

## Social, Scientific and Professional Affiliation.

1. 2018-Present, Member, King Fahad Center for Medical Research, Hematology Research Group.
2. 2018-Present, Member, Center of Excellence In Genomic Medicine Research.
3. 2021-Present, Member, Arab Robotics and AI Association.
4. -, Reviewer, IEEE Access.
5. -, Reviewer, International Journal of Advanced and Applied Sciences.
6. -, Reviewer, The Arab Journal for Informatics Studies, Majmaah University.
7. -, Reviewer, International Journal of Imaging Systems and Technology.
8. -, Member, International CML Foundation iCMLf.
9. -, Member, Health Informatics Society of Australia HISA.
10. -, Member, Centre for Cancer Biology Adelaide.
11. -, Member, eResearch SA eRSA.
12. 2021-Present, Centre of Artificial Intelligence in Precision Medicines, King Abdulaziz University.

## Excellence Awards and Patents.

1. 2018, Interior, appreciation letter from Saudi Arabian Cultural Mission in Australia and listed on the Honour board
2. 2012, Interior, Best Poster Award Runner-up (Judge s choice), Adelaide University, Australia

3. 2019, Interior, The Alumni Award, Australian Embassy, Riyadh
4. 2021, Interior, appreciation letter from both King Abdulaziz and his companions foundation for giftedness and creativity and from students deanship at King Abdulaziz University for Mawhiba Mentorship, King Abdulaziz and his companions foundation for giftedness and creativity.
5. 2005, Interior, the third Place Winner of the cultural Competition, Taibah University.
6. 2021, Interior, appreciation letter from King Abdulaziz University for participation as assessor in 12th scientific forum for King Abdulaziz University Students, King Abdulaziz University.
7. 2021, Interior, appreciation letter from vice-Presidency for graduate studies and scientific research for participation as assessor at the King Abdulaziz University Winter Enrichment Program KAUWEP, King Abdulaziz University.
8. 2021, Interior, appreciation letter from the Deanship of Quality and Academic Accreditation for participating in visit the institutional accreditation simulation, King Abdulaziz University.
9. 2022, Interior, Received the 2nd place poster competition with the theme "Using HPC & AI to accelerate and improve medical research., the HPC Saudi 2022.

## Funded Projects.

1. 2020, Intelligent System for COVID-19 Diagnosis and Management in Saudi Arabia, the Ministry of Education and King Abdulaziz University
2. 2019, Web-Based Expert System with Quick Response Code for Beta-Thalassemia Management, he Deanship of Scientific Research (DSR), King Abdulaziz University
3. 2019, Self Monitoring System for Nutrition Management of Patients with Inherited Metabolic Disorders, The Deanship of Scientific Research (DSR), King Abdulaziz University.
4. 2019, An Intelligent System for Proper Management and Disposal of Unused and Expired Medications in Saudi Arabia., the Ministry of Education and King Abdulaziz University
5. 2020, Personalised Molecular Targeted Therapy Recommendation in Oncology Using Knowledge-Based Clinical Decision Support System: Knowledge consistency and Multi-criteria Decision Analysis, the Ministry of Education and King Abdulaziz University
6. 2021, Increasing Awareness of Proper Disposal of Unused and Expired Medication Using a Knowledge-Based Disposal Management System, the King Abdulaziz and His Companions Foundation for Giftedness and Creativity (Mawhiba)
7. 2022, A Smart Chatbot for Interactive Management in Beta Thalassemia Patients, the King Abdulaziz and His Companions Foundation for Giftedness and Creativity (Mawhiba)
8. 2022, Knowledge-based system and intelligent orthopedic cast with personalized transcutaneous electrical nerve stimulation therapy, The Deanship of Scientific Research (DSR), King Abdulaziz University.
9. 2022, Activation of Mobile User Interface to Assist in Coping with Negative Emotions by Using Rule-based Chatbot and EEG-based emotion recognition to support user physiological condition, the Ministry of Education and King Abdulaziz University
10. 2024, Web-based Expert Bots System as Key Detectives in Identifying Complementary Personality Traits and Recommending Optimal Team Composition, the King Abdulaziz and His Companions Foundation for Giftedness and Creativity (Mawhiba),
11. 2022, An Efficient Approach based on Optimized Machine Learning Models for Diagnosing Autism Spectrum Disorder Using Structural Magnetic Resonance Imaging, the Ministry of Education and King Abdulaziz University,

## Publications.

1. Alganmi N, Bashanfar A, Alotaibi R, Banjar H, Karim S, Mirza Z, Abusamra H, Al-Attas M, Turkistany S, Abuzenadah A., "Uncovering Hidden Genetic Risk Factors For Breast And Ovarian Cancers In Brca-Negative Women: A Machine Learning Approach In The Saudi Population", Peerj Computer Science, 2024.
2. Sajjad Karim, Md Shahid Iqbal, Fadwa Aljoud, Najla Ali Alburae, Zoya Nisar, Nofe Alganmi, Haneen Banjar, Zeenat Mirza, "Diagnostic, Prognostic And Treatment Response Of Perilipin1 Gene In Breast Cancer", Journal Of King Saud University, Impact Factor:3.8, 2024.
3. Mysaa Fatani, Haneen Banjar, "Web-Based Expert Bots System In Identifying Complementary Personality Traits And Recommending Optimal Team Composition", International Journal Of Advanced Computer Science And Applications, Impact Factor: 0.9, 2024.
4. Reem Ahmed Bahathiq, Haneen Banjar, Salma Kammoun Jarraya, Ahmed K. Bamaga, Rahaf Almoallim, "Efficient Diagnosis Of Autism Spectrum Disorder Using Optimized Machine Learning Models Based On Structural Mri", Applied Sciences, Impact Factor:2.7, vol: 14, pp. 473, 2024.  
DOI: [10.3390/app14020473](https://doi.org/10.3390/app14020473)
5. Aliaa Amr Alamoudi, Sahar Eldakhakhny, Haneen Banjar, Ghada Ajabnoor, Sama Badr Aljohani, Rasha Ramadan Basheer, Basmah Eldakhakhny, Mazen Badawi, Ayman Elsamanoudy, "Association Between Laboratory Markers And Covid-19 Disease Severity And Outcome: A Retrospective Cohort Study In Saudi Arabia", Frontiers In Immunology, If: 8.786, vol: 14, 2023.  
DOI: [10.3389/fimmu.2023.1198530](https://doi.org/10.3389/fimmu.2023.1198530)
6. Zeenat Mirza, Md Shahid Ansari, Md Shahid Iqbal, Nesar Ahmad, Nofe Alganmi, Haneen Banjar, Mohammed H. Al-Qahtani, Sajjad Karim, "Identification Of Novel Diagnostic And Prognostic Gene Signature Biomarkers For Breast Cancer Using Artificial Intelligence And Machine Learning Assisted Transcriptomics Analysis", Cancers, If: 6.575, vol: 15, pp. 3237, 2023.  
DOI: [10.3390/cancers15123237](https://doi.org/10.3390/cancers15123237)
7. Haneen Banjar, "Modeling Prediction Rules To Build Fuzzy Expert System In Supporting The Diagnosis Of Anemia, Healthcare 2023, 11, 301. , Impact Factor:3.16", Healthcare, 2023.
8. Mayda Alrige, Haneen Banjar, Taghreed Shuaib, Amal Ahmed and Raghad Gharbawi, "Knowledge-Based Dietary Intake Recommendations Of Nutrients For Pediatric Patients With Maple Syrup Urine Disease, Healthcare 2023, 11, 301. <https://doi.org/10.3390/Healthcare11030301>, Impact Factor:3.16", Healthcare, 2023.
9. Haneen Reda Banjar, "A Smart Monitoring System For Self-Nutrition Management In Pediatric Patients With Inherited Metabolic Disorders: Maple Syrup Urine Disease (Msud), 2023, 11, 178. <https://doi.org/10.3390/Healthcare11020178>, Impact Factor:3.16", Healthcare, 2023.
10. Reem Ahmed Bahathiq\* , Ahmed K. Bamaga, Haneen Reda Banjar and Salma Kammoun Jarraya, "Machine Learning For Autism Spectrum Disorder Diagnosis Using Structural Magnetic Resonance Imaging: Promising But Challenging, Impact Factor:4.75 Doi: <https://doi.org/10.3389/fninf.2022.949926>", Frontiers In Neuroinformatics,, 2022.
11. Deemah Alshehri, Haneen Banjar, "Increasing Awareness Of Proper Disposal Of Unused And Expired Medication Using A Knowledge-Based Disposal Management System", Journal Of Environmental And Public Health, vol: 2022, pp. 1-10, 2022.  
DOI: [10.1155/2022/1797440](https://doi.org/10.1155/2022/1797440)
12. Alma Mohammed Alturaiki, Haneen Reda Banjar, Ahmed Salleh Barefah, Salwa Abdulrahman Alnajjar, Salwa Hindawi, Manolis Tsiknakis, "A Smart Chatbot For Interactive Management In Beta Thalassemia Patients, Impact Factor: 0.349", International Journal Of Telemedicine And Applications, vol: 2022, pp. 1-13, 2022.  
DOI: [10.1155/2022/9734518](https://doi.org/10.1155/2022/9734518)



## Publications.

13. Haneen Banjar, Rahaf Alrowithi, Sara Alhadrami, Esraa Magrabi, Reema Munshi, Mayda Alrige, "An Intelligent System For Proper Management And Disposal Of Unused And Expired Medications", *Int J Environ Res Public Health*. 2022 Mar 1;19(5):2875. Doi: 10.3390/Ijerph19052875. Pmid: 35270568; Pmcid: Pmc8910225. Impact Factor:3.39, vol: 19, pp. 2875, 2022.  
DOI: [10.3390/ijerph19052875](https://doi.org/10.3390/ijerph19052875)
14. Haneen R. Banjar, Hanadi S. Almutiry, Asma S. A Alshamarni, Ghaidaa I. Almouhana, Hajar M. Alharbi, Hatem M. Alahwal, Salem Bahashwan, Ahmed S. Barefah, Salwa A. Alnajjar, and Galila F. Zaher, "Web-Based Expert System With Quick Response Code For Beta-Thalassemia Management, Doi:10.1177/1460458221989397. Impact Factor: 2.932.", *Health Informatics Journal*, 2021.
15. Haneen Reda Banjar, Heba Alkhatabi, Nofe Alganmi, and Ghaidaa Ibraheem Almouhana, "Prototype Development Of An Expert System Of Computerized Clinical Guidelines For Covid-19 Diagnosis And Management In Saudi Arabia, Doi: 10.3390/Ijerph17218066. Impact Factor: 2.849.", *International Journal Of Environmental Research And Public Health*, 2020.
16. Hanadi S. Almutiry, Asma S. A Alshamarni1, Ghaidaa I. Almouhana, Haneen R. Banjar, Hajar M. Alharbi, Hatem M. Alahwal, Salem Bahashwan, Ahmed S. Barefah, Salwa A. Alnajjar, and Galila F. Zaher., "Web-Based Expert System With Quick Response Code For Beta-Thalassemia Management", *The 12th Annual Undergraduate Research Conference On Applied Computing*, 2019.
17. Haneen Banjar, "Personalized Medicine Support System For Chronic Myeloid Leukemia Patients", 2018.
18. Haneen Banjar, David Adelson, Fred Brown, Tamara Leclercq, "Personalized Medicine Support System : Resolving Conflict In Allocation To Risk Groups And Predicting Patient Molecular Response To Targeted Therapy", *Health Informatics - An International Journal*, vol: 6, pp. 01-21, 2017.  
DOI: [10.5121/hiij.2017.6201](https://doi.org/10.5121/hiij.2017.6201)
19. Haneen Banjar, Damith Ranasinghe, Fred Brown, David Adelson, Trent Kroger, Tamara Leclercq, Deborah White, Timothy Hughes, Naeem Chaudhri, Matthaios Speletas, "Modelling Predictors Of Molecular Response To Frontline Imatinib For Patients With Chronic Myeloid Leukaemia, Impact Factor: 2.74.", *Plos One*, vol: 12, pp. e0168947, 2017.  
DOI: [10.1371/journal.pone.0168947](https://doi.org/10.1371/journal.pone.0168947)
20. Haneen R. Banjar, Enaam Alsobhi, "Consistency Test Between Scoring Systems For Predicting Outcomes Of Chronic Myeloid Leukemia In A Saudi Population Treated With Imatinib", *International Scholarly Research Notices*, vol: 2017, pp. 1-6, 2017.  
DOI: [10.1155/2017/1076493](https://doi.org/10.1155/2017/1076493)
21. Haneen Banjar, David Adelson, Fred Brown, Naeem Chaudhri, "Intelligent Techniques Using Molecular Data Analysis In Leukaemia: An Opportunity For Personalized Medicine Support System, Doi: 10.1155/2017/3587309. Epub 2017 Jul 25. Pmid: 28812013 Impact Factor: 2.583.", *Biomed Research International*, vol: 2017, pp. 1-21, 2017.  
DOI: [10.1155/2017/3587309](https://doi.org/10.1155/2017/3587309)