

## Academic Resume



### Kawthar Moria

#### Assistant Professor, Computer Science Department

Dr. Kawthar Moria

#### Contact Information.

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kmoria@kau.edu.sa.

#### Highest Degree.

2016, PhD, Airificial Intelligence , Image and Video Analysis, University of Victoria, Canada.

#### Academic and Professional Experiences.

1. **2018 - 2023**  
Supervisor of the Electrical Engineering Department, King Abdul Aziz University, Jeddah, KAU.
2. **2016 - Present**  
Assistant Professor, Jeddah, Saudi Arabia, King Abdul Aziz University.
3. **2016 - 2017**  
Software developer, Victoria, BC Canada, Priologic Software Inc.,.
4. **2008 - 2009**  
Lecturer in Computer Science, Jeddah, Saudi Arabia, King Abdul Aziz University.
5. **2003 - 2007**  
Full-time Teacher Assistant, Jeddah, Saudi Arabia, King Abdul Aziz University.

#### Research Interests.

Artificial Intelligence, Computer Vision, Image and Video Analysis.

#### Teaching Interests.

Artificial Intelligence I- Bachelor Program, Artificial Intelligence II- Bachelor Program, Advanced Artificial Intelligence - Master Program, CPCS 201- Bachelor Program, CPCS 203- Bachelor Program.

## Certifications and Trainings.

1. Development of Excellence in Assessment Leadership (IDEAL).
2. Diploma of Professional Development in Teaching and Learning.
3. Training program for quality and development vice deans.
4. Short research proposal preparation workshop.
5. NVIDIA's Deep Learning Institute Workshop.
6. Workshop on Achieving Excellence in Entrepreneurship and the Business World for the Public and Private Sectors.
7. Organizational Structures and Job Description Workshop.
8. The Supercomputing and Big data to Accelerate Research and Innovation at KAU.
9. Academic leadership diploma for supervisors of scientific departments.

## Social, Scientific and Professional Affiliation.

### Excellence Awards and Patents.

1. 2021, Interior, Excellence research awards, King Abdul Aziz University.
2. 2022, Interior, Diagnosis of Mild Cognitive Impairments Using MR Images, Institutional Funding Program for Research and Development Path, King Abdul Aziz University.
3. 2023, Interior, Neural Attractor-Based Adaptive Key Generator with DNA-Coded Security and Privacy Framework for Multimedia Data in Cloud Environments, King Abdul Aziz University.
4. 2022, Interior, Application Of The Response Surface Methodology (Rsm) In The Optimization Of Acenaphthene (Acn) Removal From Wastewater By Activated Carbon, King Abdul Aziz University.
5. 2022, Interior, Evaluation Of Contemporary Computational Techniques To Optimize Adsorption Process For Simultaneous Removal Of Cod And Toc In Wastewater, King Abdul Aziz University.
6. 2021, Interior, Artificial Neural Network Modeling and Synthesis of a Novel Nanocomposite for Treatment of Emerging Micropollutants from Landfill Leachate, Institutional Funding Program for Research and Development Path, King Abdul Aziz University.
7. 2022, International, Optimization Of Micro-Pollutants Removal From Wastewater Using Agricultural Waste-Derived Sustainable Adsorbent, King Abdul Aziz University.
8. 2017, Interior, Teaching Excellence award from the Deanship of E-learning & Distance Education, King Abdul Aziz University.
9. 2020, Interior, Person Re-identification System, King Abdul Aziz University.
10. 2023, Interior, Detection of Hate Speech using BERT and Hate Speech Word Embedding with Deep Model, King Abdul Aziz University.
11. 2023, Interior, Detecting Cortical Thickness Changes in Epileptogenic Lesions, King Abdul Aziz University.

### Funded Projects.

1. 2023, Diagnosis of Mild Cognitive Impairments Using MR Images, KAU Deanship of Scientific Research
2. 2023, Saudi Brain Template Construction based on MRI images, KAU Deanship of Scientific Research
3. 2023, Detecting Flat Feet in X-Ray Images Using Computer Vision Techniques, KAU Deanship of Scientific Research
4. 2023, Detecting Cortical Thickness Changes in Epileptogenic Lesions, KAU Deanship of Scientific Research
5. 2019, Person Re-identification System, King Abdul Aziz University, Dr Lamia Refaey, Mona Almasawa.
6. 2021, Artificial Neural Network Modeling and Synthesis of a Novel Nanocomposite for Treatment of

Emerging Micropollutants from Landfill Leachate, King Abdul Aziz University, Authors: Areej Alhothali, Tahir Haneef, Muhammad Raza Ul Mustafa, Umer Rashid, Kashif Rasool and OUmaimah Omar Bamasag.

7. 2021, Prediction of diagnosis and disease progressions in Epilepsy through MRI and /eeg, King Abdul Aziz University,, Adnan A.S. Alahmadi, Dr. Haytham Altayeb, Dr. Jamaan Alghamedy.

## Publications.

1. Esraa H. Alyoubi, Kawthar M. Moria, Jamaan S. Alghamdi, Haythum O. Tayeb, "An Optimized Deep Learning Model For Predicting Mild Cognitive Impairment Using Structural Mri", *Sensors*, vol: 23, pp. 5648, 2023.  
DOI: [10.3390/s23125648](https://doi.org/10.3390/s23125648)
2. Sarah Alyafeai, Rawan Duhaithem, Sara Alamoudi, Kawthar Moria, Marwa Tharwat, "Smart Assistive Wearable Device For Alzheimer'S Patients", *Ieee Eurocon 2023 - 20th International Conference On Smart Technologies*, pp. 222-226, 2023.  
DOI: [10.1109/EUROCON56442.2023.101990](https://doi.org/10.1109/EUROCON56442.2023.101990)
3. Fatmah A. Alsaidi, Kawthar M. Moria, "Flatfeet Severity-Level Detection Based On Alignment Measuring", *Sensors*, vol: 23, pp. 8219, 2023.  
DOI: [10.3390/s23198219](https://doi.org/10.3390/s23198219)
4. Kawthar Moria, "Prediction Of Molecular Colorectal Cancer Recurrence Using Machine Learning", *Journal Of Engineering Sciences*, 2023.
5. Hemalatha Mahalingam, Padmapriya Velupillai Meikandan, Karuppuswamy Thenmozhi, Kawthar Mostafa Moria, Chandrasekaran Lakshmi, Nithya Chidambaram, Rengarajan Amirtharajan, "Neural Attractor-Based Adaptive Key Generator With Dna-Coded Security And Privacy Framework For Multimedia Data In Cloud Environments", *Mathematics*, 2023.
6. Saja Alsulami, Duha Alghamdi, Shahad BinMahfooz, Kawthar Moria, "Covid -19 Social Distance Analysis Using Machine Learning", *Procedia Computer Science*, 2023.
7. Sumayya Azzony, Kawthar Moria, Jamaan Alghamdi, "Detecting Cortical Thickness Changes In Epileptogenic Lesions Using Machine Learning", *Brain Sciences*, vol: 13, pp. 487, 2023.  
DOI: [10.3390/brainsci13030487](https://doi.org/10.3390/brainsci13030487)
8. Hind Saleh, Areej Alhothali, Kawthar Moria, "Detection Of Hate Speech Using Bert And Hate Speech Word Embedding With Deep Model", *Applied Artificial Intelligence*, vol: 37, 2023.  
DOI: [10.1080/08839514.2023.2166719](https://doi.org/10.1080/08839514.2023.2166719)
9. Missba Khanam, Kawthar Moria, "Segmentation Of Corpus Callosum Using Attention U-Net Architecture For Mri Scan", *2022 25th International Conference On Computer And Information Technology (Iccit)*, pp. 855-859, 2022.  
DOI: [10.1109/ICCIT57492.2022.10054677](https://doi.org/10.1109/ICCIT57492.2022.10054677)
10. Mariam K. Alharthi, Kawthar M. Moria, Daniyal M. Alghazzawi, Haythum O. Tayeb, "Epileptic Disorder Detection Of Seizures Using Eeg Signals", *Sensors*, vol: 22, pp. 6592, 2022.  
DOI: [10.3390/s22176592](https://doi.org/10.3390/s22176592)
11. Kawthar Mostafa Moria, Hifsa Khurshid, Muhammad Raza Ul Mustafa, Areej Alhothali, Omaimah Omar Bamasag, "Application Of The Response Surface Methodology (Rsm) In The Optimization Of Acenaphthene (Acn) Removal From Wastewater By Activated Carbon", *Sustainability*, vol: 14, pp. 8581, 2022.  
DOI: [10.3390/su14148581](https://doi.org/10.3390/su14148581)
12. Areej Alhothali, Hifsa Khurshid, Muhammad Raza Ul Mustafa, Kawthar Mostafa Moria, Umer Rashid, Omaimah Omar Bamasag, George Kyzas, "Evaluation Of Contemporary Computational Techniques To Optimize Adsorption Process For Simultaneous Removal Of Cod And Toc In Wastewater", *Adsorption Science & Technology*, vol: 2022, pp. 1-16, 2022.  
DOI: [10.1155/2022/7874826](https://doi.org/10.1155/2022/7874826)

13. Areej Alhothali, Tahir Haneef, Muhammad Raza Ul Mustafa, Kawthar Mostafa Moria, Umer Rashid, Kashif Rasool, Omaidah Omar Bamasag, "Optimization Of Micro-Pollutants&Amp;Amp;Amp;Amp;Amp;Amp;Rsquo; Removal From Wastewater Using Agricultural Waste-Derived Sustainable Adsorbent", International Journal Of Environmental Research And Public Health, vol: 18, pp. 11506, 2021.  
DOI: [10.3390/ijerph182111506](https://doi.org/10.3390/ijerph182111506)
14. Hind S. Alatawi, Areej M. Alhothali, Kawthar M. Moria, "Detecting White Supremacist Hate Speech Using Domain Specific Word Embedding With Deep Learning And Bert", Ieee Access, vol: 9, pp. 106363-106374, 2021.  
DOI: [10.1109/ACCESS.2021.3100435](https://doi.org/10.1109/ACCESS.2021.3100435)
15. Reem Alharthi, Areej Alhothali, Kawthar Moria, "Comprehensive Analysis Of Two Malicious Arabic-Language Twitter Campaigns", International Journal Of Advanced Computer Science And Applications, vol: 12, 2021.  
DOI: [10.14569/IJACSA.2021.0120493](https://doi.org/10.14569/IJACSA.2021.0120493)
16. Reem Alharthi, Areej Alhothali, Kawthar Moria, "A Real-Time Deep-Learning Approach For Filtering Arabic Low-Quality Content And Accounts On Twitter", Information Systems, vol: 99, pp. 101740, 2021.  
DOI: [10.1016/j.is.2021.101740](https://doi.org/10.1016/j.is.2021.101740)
17. Reem Alharthi, Areej Alhothali, Kawthar Moria, "Detecting And Characterizing Arab Spammers Campaigns In Twitter", Procedia Computer Science, vol: 163, pp. 248-256, 2019.  
DOI: [10.1016/j.procs.2019.12.106](https://doi.org/10.1016/j.procs.2019.12.106)
18. Maha Hamdan Alotibi, Salma Kammoun Jarraya, Manar Salamah Ali, Kawthar Moria, "Cnn-Based Crowd Counting Through Iot: Application For Saudi Public Places", Procedia Computer Science, vol: 163, pp. 134-144, 2019.  
DOI: [10.1016/j.procs.2019.12.095](https://doi.org/10.1016/j.procs.2019.12.095)
19. Muna O. AlMasawa, Lamiaa A. Elrefaei, Kawthar Moria, "A Survey On Deep Learning Based Person Re-Identification Systems", Ieee Access, pp. 1-1, 2019.  
DOI: [10.1109/ACCESS.2019.2957336](https://doi.org/10.1109/ACCESS.2019.2957336)
20. Kawthar Moria, Alexandra Branzan Albu, Kui Wu, "Computer Vision-Based Detection Of Violent Individual Actions Witnessed By Crowds", 2016 13th Conference On Computer And Robot Vision (Crv), pp. 303-310, 2016.  
DOI: [10.1109/CRV.2016.14](https://doi.org/10.1109/CRV.2016.14)
21. Kawthar Moria, Alexandra Branzan Albu, Kui Wu, "Fire Detection In Videos Of Violent Crowds Acquired With Handheld Devices", 2015 12th Conference On Computer And Robot Vision (Crv), pp. 101-108, 2015.  
DOI: [10.1109/CRV.2015.22](https://doi.org/10.1109/CRV.2015.22)