

Academic Resume

Nofe Alganmi

Assistant Professor, Computer Science Department

Proactive professor and researcher with 10 years of experience teaching courses on undergraduate and postgraduate levels. I work as a head of bioinformatics at the center of medical genomics researchers in Jeddah. I am interested in exploiting data for furthering understanding of biological systems. My research programs can be broadly classified into; 1) deployment of computational approaches for the analysis, interpretation, and exploitation of large-scale biologically derived data, and 2) the development of computational tools and algorithms for the analysis of biological data.

Contact Information.

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Highest Degree.

2019, , Bioinformatics, University of Surrey, UK.

Academic and Professional Experiences.

1. **2020 - Present**
Deputy Director, The Center of Excellence In Genomic Medicine Research, Jeddah, King Abdulaziz University.
2. **2019 - Present**
Assistant Professor, Computer Science, Faculty of Computing and Information Technology.
3. **2019 - Present**
Head of Bioinformatics unit and data center, The Center of Excellence In Genomic Medicine Research, Jeddah, King Abdulaziz University.
4. **2006 - 2019**
Lecturer in computer science, Faculty of computing and information technology, Jeddah, King Abdulaziz University.
5. **2003 - 2004**
Teacher Assistance, Effat College Jeddah, , .
6. **2002 - 2003**
Administration assistance, Effat college, , .

Research Interests.

Machine learning, Computational Genomics, Artificial intelligent, Clinical Bioinformatics.

Teaching Interests.

Artificial intelligent, Computational Biology.

Certifications and Trainings.

1. Surrey Winter School in Statistics with R". the UK..
2. Microarray data and pathway analysis". Partek Incorporated®, London..
3. "The Deep Learning Summer School.". TheUniversity of Surrey, UK..
4. A Cytogenetic and Molecular Genetic Course for 3 months training in the center of excellence in genomic research, Jeddah KSA.
5. "Data Science R Bootcamp". Princess Nourah Bint Abdul Rahman University, Jeddah, KSA..
6. "KAUST Research Conference Digital Health". KSA..
7. "3rd Berlin Summer School in NGS Data Analysis". ecSeq Bioinformatics GmbH, German.

Social, Scientific and Professional Affiliation.

1. 2020-Present, Membee, GIAB analysis consortium.
2. 2020-Present, member, Saudi Society of Medical Genetics.
3. 2020-Present, Member, American Society of Human Genetics.
4. 2020-Present, Member, Human Cell Atals.

Publications.

1. Zeenat Mirza, Dalal A. Al-Saedi, Nofe Alganmi, Sajjad Karim, "Landscape Of Flt3 Variations Associated With Structural And Functional Impact On Acute Myeloid Leukemia: A Computational Study", International Journal Of Molecular Sciences, vol: 25, pp. 3419, 2024.
DOI: [10.3390/ijms25063419](https://doi.org/10.3390/ijms25063419)
2. Adel Abuzenadah, Nofe Alganmi, Raghad AlQurashi, Esraa Hawas, Abdullah AlOtibi, Abdulrahman Hummadi, Ahmed Ali Nahari, Somaya AlZelaye, Nasser R. Aljuhani, Manal Al-Attas, Heba Abusamra, Shereen Turkistany, Sajjad Karim, Zeenat Mirza, Mohammed Al-Qahtani, Adeel Chaudhary, Mariam M. Al Eissa, "Familial Screening For The Prevention Of Rare Diseases: A Focus On Lipodystrophy In Southern Saudi Arabia", Journal Of Epidemiology And Global Health, vol: 14, pp. 162-168, 2024.
DOI: [10.1007/s44197-023-00182-5](https://doi.org/10.1007/s44197-023-00182-5)
3. Nofe Alganmi, Arwa Bashanfar, Reem Alotaibi, Haneen Banjar, Sajjad Karim, Zeenat Mirza, Heba Abusamra, Manal Al-Attas, Shereen Turkistany, Adel Abuzenadah, "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, vol: 10, pp. e1942, 2024.
DOI: [10.7717/peerj-cs.1942](https://doi.org/10.7717/peerj-cs.1942)
4. Somayah Albaradei, Nofe Alganmi, Abdulrahman Albaradie, Eaman Alharbi, Olaa Motwalli, Maha A. Thafar, Takashi Gojobori, Magbubah Essack, Xin Gao, "A Deep Learning Model Predicts The Presence Of Diverse Cancer Types Using Circulating Tumor Cells", Scientific Reports, vol: 13, 2023.
DOI: [10.1038/s41598-023-47805-2](https://doi.org/10.1038/s41598-023-47805-2)
5. Almutiri, T., Alomar, K., & Alganmi, N., "Predicting Drug Response On Multi-Omics Data Using A Hybrid Of Bayesian Ridge Regression With Deep Forest", International Journal Of Advanced Computer Science And Applications, 2023.
6. Nofe Alganmi, Heba Abusamra, Alvaro Galli, "Evaluation Of An Optimized Germline Exomes Pipeline Using Bwa-Mem2 And Dragen-Gatk Tools", Plos One, vol: 18, pp. e0288371, 2023.
DOI: [10.1371/journal.pone.0288371](https://doi.org/10.1371/journal.pone.0288371)
7. 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)
8. Sajjad Karim, Mona Al-Kharraz, Zeenat Mirza, Hend Noureldin, Heba Abusamara, Nofe Alganmi, Adnan Merdad, Saddig Jastaniah, Sudhir Kumar, Mahmood Rasool, Adel Abuzenadah, Mohammed Al-Qahtani, "Development Of “Biosearch System” For Biobank Management And Storage Of Disease Associated Genetic Information", Journal Of King Saud University - Science, vol: 34, pp. 101760, 2022.
DOI: [10.1016/j.jksus.2021.101760](https://doi.org/10.1016/j.jksus.2021.101760)
9. Hans-Juergen Schulten, Fatima Al-Adwani, Haneen A. Bin Saddeq, Heba Alkhatabi, Nofe Alganmi, Sajjad Karim, Deema Hussein, Khalid B. Al-Ghamdi, Awatif Jamal, Jaudah Al-Maghrabi, Mohammed H. Al-Qahtani, "Meta-Analysis Of Whole-Genome Gene Expression Datasets Assessing The Effects Of Idh1 And Idh2 Mutations In Isogenic Disease Models", Scientific Reports, vol: 12, 2022.
DOI: [10.1038/s41598-021-04214-7](https://doi.org/10.1038/s41598-021-04214-7)
10. Alshammari, Sultanah Mohammed, Mohammed Hassan Ba-Aoum, Nofe Ateq Alganmi, and Arwa AbdulAziz Allinjawi., "Agent-Based Simulation Framework For Epidemic Forecasting During Hajj Seasons In Saudi Arabia", Information (Switzerland), 2021.

Publications.

11. Sajjad Karim, Samah Saharti, Nofe Alganmi, Zeenat Mirza, Ahmed Alfares, Shereen Turkistany, Manal Al-Attas, Hend Nouredin, Khadega Al Sakkaf, Heba Abusamra, Mohammed Al-Qahtani, Adel Abuzenadah, "Two Novel Homozygous Hps6 Mutations (Double Mutant) Identified By Whole-Exome Sequencing In A Saudi Consanguineous Family Suspected For Oculocutaneous Albinism", Life, vol: 12, pp. 14, 2021.
DOI: [10.3390/life12010014](https://doi.org/10.3390/life12010014)
12. Haneen Reda Banjar, Heba Alkhatabi, Nofe Alganmi, Ghaidaa Ibraheem Almouhana, "Prototype Development Of An Expert System Of Computerized Clinical Guidelines For Covid-19 Diagnosis And Management In Saudi Arabia", International Journal Of Environmental Research And Public Health, vol: 17, pp. 8066, 2020.
DOI: [10.3390/ijerph17218066](https://doi.org/10.3390/ijerph17218066)