

Duaa M Alawad

DATA SCIENTIST · PHD CANDIDATE

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Education

University of New Orleans

PHD IN ENGINEERING AND APPLIED SCIENCE, GA: 3.9/4.0

- Research Focus: Deep Learning for inferring gene regulatory Network

New Orleans, LA

August 2017 - PRESENT

Jordan Univerity Science and Technology)

M.S. IN COMPUTER SCIENCE

- Research Focus: Machine Learning , image processing

Ramtha, Jordan

August 2011 - August 2013

Al Hussien Bin Talal University

B.S. IN COMPUTER SCIENCE

- Graduation project: Warehouse Management of Science Faculty System

Ma'an, Jordan

Septemebr 2005 - June 2009

Skills

Programming

Python, SQL, R, Java, C++, Cytoscape, Azure, AWS, Scikit-Learn, Keras, TensorFlow, Pytorch, Theano, Pandas, Scipy, Julia, Weka, IONIC, Git, Matlab

Languages

Arabic, English

RESEARCH EXPERIENCE

Bioinformatics and Machine Learning Lab, University of New Orleans

MACHINE LEARNING ENGINEER

- Implemented Ensemble Machine Learning Algorithms to infer gene Regulatory Network.
- Improved Graph Neural Network that can Infer gene regulatory Network.
- Using Ensemble Deep Learning Algorithms to predict the RNA-Protein interaction.

New Orleans, LA

Aug. 2018 - Exp. May. 2023

University of New Orleans

MOBILE APP DEVELOPER AT CIVIL ENGINEERING DEPARTMENT IN UNIVERSITY OF NEW ORLEANS

- Developed Mobile Application for Conference: INT-NAM 2018-3rd International Symposium on Naval Architecture and Maritime

New Orleans, LA

Aug 2017 - May. 2018

WORK EXPERIENCE

University of New Orleans

DOCTORAL TEACHING ASSISTANT

- Teaching C++ Class.
- Teaching Assistant (Grader)
 - Machine Learning (1) Class
 - Machine Learning (2) Class
 - Advanced Machine Learning (1) Class
 - Advanced Machine Learning (2) Class

New Orleans, LA

May. 2020 - Present

Jordan University of Science and Technology

INSTRUCTOR

- Teaching computer skills and C++ for Freshman student.

Ramtha, Jordan

Sep. 2013 - Jan. 2014

Jordan University of Science and Technology

TEACHING ASSISTANT

- Teaching C++, Visual Basic, Algorithm Class for Freshman student.

Ramtha, Jordan

Aug. 2011 - Aug. 2013

Aqaba High school

TEACHER FOR HIGH SCHOOL

- Teaching computer in High school.

Aqaba, Jordan

sep. 2010 - Jun. 2011

- Designed different monthly advertising magazine versions by using Adobe Photoshop, and Adobe Illustrator.

Publication

Journal

- **Duaa Alawad**, Ataur Katebi, Md Tamjidul Hoque*, "EGRC: Effective inferring Gene Regulatory network using graph convolution network with Mincut pooling layer." ,Submitted, Bioinformatic Advances (2022)
- **Duaa Alawad**, Md Wasi Ul Kabir, Ataur Katebi, Md Tamjidul Hoque*, "AGRN: Accurate Gene Regulatory Network inference using ensemble machine learning methods." ,Submitted, Bioinformatic Advances (2022)
- **Duaa Alawad**, Avdesh Mishra, and Md Tamjidul Hoque. "AIBH: Accurate Identification of Brain Hemorrhage Using Genetic Algorithm Based Feature Selection and Stacking" Machine Learning and Knowledge Extraction 2(2020) no. 2: 56-77. <https://doi.org/10.3390/make2020005>
- Al-Ayyoub, Mahmoud, **Duaa Alawad**, Khaldun Al-Darabsah, and Inad Aljarrah."Automatic detection and classification of brain hemorrhages." WSEAS transactions on computers 12, no. 10 (2013): 395-405

Conference

- Krishna Shah, **Duaa Alawad**, Md Wasi Ul Kabir, Md Tamjidul Hoque*, "Using Language-based Features for ncRNA-protein Interaction Prediction," 9th Annual LA Conference on Computational Biology and Bioinformatics, Louisiana, USA, 2022, *Won 2nd best poster prize in Graduate Student Category.*
- **Duaa Alawad**, Avdesh Mishra, Md Tamjidul Hoque*, "Effective Brain Hemorrhage Diagnosis from Image Using Machine Learning Approach," The 7th Annual Conference on Computational Biology and Bioinformatics, Louisiana, USA, 2019, *Won 2nd best poster prize*
- Md Wasi Ul Kabir, **Duaa Alawad**, Krishna Shah, Nayan Howladar, Muhammad Farooq, Sofiane Benkara, Amrit Rajbhandari, Dang Pham, Joshua Pierre, Md Tamjidul Hoque*, "AI-based Integrated Approach for Gene Protein Regulatory Network," Technical-Paper@University of New Orleans, 2021, Louisiana, USA, 2021 [Tech-paper]
- **Duaa Alawad**, Manisha Panta, Minhaz F. Zibran, and Md Rakibul Islam, "An Empirical Study of the Relationships between Code Readability and Software Complexity", In proceedings of the 27th International Conference on Software Engineering and Data Engineering (SEDE), pp. 122 - 127, USA, 2018
- Hmeidi, I., Al-Badarneh, A., Rababah, H., Abulrub, N. and **Duaa Alawad**, 2013. A survey of text classification techniques using arabic text. Technical report, Jordan University Of Science and Technology.

Honors & Awards

2022	Second Place , The 9th Annual Conference on Computational Biology and Bioinformatics	<i>LA, U.S.A</i>
2020	ACERS graduate scholarship , University of New Orleans	<i>LA, U.S.A</i>
2019	Second Place , The 7th Annual Conference on Computational Biology and Bioinformatics	<i>LA, U.S.A</i>
2019-2022	Ph.D. Stimulus Assistantship , for the 2019-22 Academic Years, University of New Orleans	<i>New Orleans, U.S.A</i>