

Nuha BinTayyash

Education

M.Sc in Science (Computer Science)

Aug 2013 King Saud University Faculty of Information Technology, Riyadh, KSA

- *Dissertation Topic:* Differential Diagnosis of Erythematous-Squamous Diseases using Ensemble of Decision Trees.
- *Graduated with Distinction.*

B.Sc. in Science (Information Technology)

March 2009 King Saud University Faculty of Information Technology, Riyadh, KSA

- *Graduation Project:* Semi-Automated Object oriented System Analysis and Design (AutoUML) Tool.
- *Graduated with Distinction.*

Research interests

Bioinformatics: Genome Rearrangement, Sorting by Reversals, microarray gene expression.

Artificial Intelligence: Search techniques, Blind Search, Heuristic Search, Branch and Bound techniques.

Machine learning: clinical decision support systems, boosting and bagging ensemble learning, classification.

Database: Relational and Object Oriented Databases.

Software Engineering: Object Oriented system analysis and design.

Work experience

Teaching Assistant

3/2011-current King Saud University
Information Technology Department
Riyadh, KSA

Teaching Assistant

2/2010– 7/2010 Imam Muhammad Bin Saud University
Computer Science Department
Riyadh, KSA

Trainer

11/2009– 1/2010 Higher Technical Institute for Girls
Admission and Registration Department
Riyadh, KSA

Personal

Date of birth: 4th October, 1986

Citizen: Saudi Citizen.

Marital Status: Married with one child.

Languages: English, Arabic.

Scholarships, Funds and awards

Research Group Fund

3/2014 Small Research Group, King Saud University, Riyadh, KSA. Amount:
80,000 RS.

Research Assistant Scholarship

King Saud University, Riyadh, KSA

Best Teaching Assistant

6/2014 IT department, King Saud University, Riyadh, KSA.

Publications

Conferences (referred contributions)

[1] Mohamed El Bachir Menai and **Nuha Altayash**, Differential Diagnosis of Erythematous-Squamous Diseases using Ensemble of Decision Trees, the *International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA-AIE-2014)*, Kaohsiung, Taiwan, Lecture Notes in Artificial Intelligence series (LNAI), Springer Verlag.(June 2014).

Supervision*Undergraduate projects*

Co-supervisor for Almaha Almalki, Lamia Alowain, Reem Aldera, Reem Alamer, Sarah Alhozaimy "DNA Microarray Gene Expression Data Analysis Tool". IT Department, KSU. (Autumn 2014)

Committees

Student advisor for Bachelors program IT. (Spring 2014/Autumn 2015)

Graduation Project committee IT. (member) (Autumn 2013/Spring 2014/Autumn 2015)

IEEE Student Branch (volunteer counselor) (Autumn 2013/Spring 2014)

Public Relation Committee (Spring 2014)

Workshops*Organization*

Second Information Security and Assurance Expo, IT Department, KSU (Dec 14th 2014)

First Information Security and assurance Expo, IT Department, KSU (May 15th 2014)

WEKA workshop, CS Department, KSU.(April 20th ,2014)

IEEE Student Branch Orientation day, IT Department, KSU (Feb 27th,2014)

First Computer Forensic Expo, IT Department, KSU (Dec 15th 2013)

*Seminars/
workshop
participation*

Seminar presentation at Computer and Information Science College, KSU. (March 20th 2014)

Introduction to Bioinformatics and all about BioInG. Seminar in the BioInG group at KSU. CS Department, KSU (March 2nd , 2014)

Genome Rearrangements (Part 1), November 2nd, 2013, KSU

"I can! Apply my Computing Background in Bioinformatics". April 6th, 2013.

Attended

"Hands on Experience in Bioinformatics". (a) Databases in Bioinformatics, February 23rd and (b) Similarity Tools: BLAST, March 2nd, 2013, KSU.

**Teaching
Record
Teaching**

In KSU (Autumn 2011-now):

- Teaching undergraduate courses in the department of Information Technology, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia:

- IT 351: Wireless and mobile computing, teaching three sections, 43 students). (Autumn 2011/Spring 2012)
- IT 322: Software Engineering (1), teaching one section (19 students).(Spring 2012
- IT 422: Artificial intelligence teaching four sections (119 students) (Spring 2013- Autumn 2013- Spring 2014- Autumn 2014)
- IT 454: Computer Forensic teaching one section (16 students) (Autumn 2013)
Contributions: Developed weekly lab sheets, lab quizzes and organize for the first expo then write an article about it that published in university newspaper.
- IT 453: Information Security and Assurance teaching one section(38 student) (Spring 2014- Autumn 2014)
Contributions: Developed in class reading assignment and an e-course using LMS. organize the first and second expo for the course presenting an awareness program and create YouTube channel for the course to display students' awareness program

**Personal
Development**

Courses

Alitheraii Summer Program in computer and information , Program is under the support and supervision of King AbdulAziz and his men for the care of talented people, Institute of Public Administration, KSA.(2003)

memberships/
activities

Member of *ACM*, *IEEE*, Science Direct.

Volunteer in small research group to develop an General Algorithmic Framework for Solving the Median Problem using Genome Rearrangement Techniques this project in funded by Research Centre of King Saud Univeristy.