

# RANA HUSNI AL MAHMOUD, Ph.D.

## Assistant Professor

@ German Jordanian University    Amman Madaba Street, Jordan  
in <https://www.linkedin.com/in/rana-husni-667b5b92/>  
[scholar]<https://scholar.google.com/citations?user=IGh3LKUAAAAJ>  
[orcid]0000-0003-4240-9392

✉ [rana.husni@gmail.com](mailto:rana.husni@gmail.com)



## ABOUT ME

Natural Language Processing is one of the most exciting topics in the modern world. I worked as a researcher and developer in this field during my work, and in addition to my study in Ph.D. . I implemented many NLP applications by adopting machine-learning approaches. My research work especially concerned about Arabic Language, and I'm still finding new challenges related to many new topics, In addition to Arabic language difficulties and challenges. Therefore, working in an academic environment qualifies my studies, improves my knowledge, and develops my experiences.

## EDUCATION

### Ph.D. of Computer Science

**Dissertation Title:** [A Framework and Apparatus for Clustering Arabic Text Documents Based-On the Bond Energy Algorithm](#)

**Supervisor:** [Prof. Bassam Hammo](#)

**Co-Supervisor:** [Prof. Hossam Faris](#)

**Specialty:** [Natural Language Processing](#), [Machine Learning](#), [Data Mining](#), and [Data Science](#)

**GPA:** 3.92 / 4

📅 2016 - 2020

📍 The University of Jordan, Jordan

### Master of Computer Science

**Dissertation Title:** [Using Articulation Point To find maximum independent set](#)

**Supervisor:** [Prof. Ahmad Jaber](#)

**GPA:** 3.75 / 4

📅 2000 - 2002

📍 Jordan University , Jordan

### Bachelor of Computer Science

**GPA:** 3.83 / 4

📅 1996 - 2000

📍 Hashemite University , Zarqa, Jordan

First Class Honours

### Tawjihi (General Secondary Education Certificate), Scientific Stream

**GPA:** 90.9 / 100

📅 1996

📍 Am Aldarda'a school, Zarqa, Jordan

## RESEARCH INTERESTS

Natural Language Processing

Artificial Intelligence

Machine Learning

Data Science

Ontologies

Data Mining

Arabic Text Mining

Arabic Text Classification and Clustering

## TRAINING COURSES

- Rational Unified Process and UML Using Rational Tools
- Oracle Developer 2000
- Developing Windows App and Web App Using c#.NET and ADO.NET
- Microsoft ASP.NET 2.0 Web Applications using Microsoft Visual Studio 2005
- Software Engineering Fundamentals with Rational Technology

## STRENGTHS

Creativity

Communication skills

Mathematically inclined

Time Management

Motivator

## COMPUTER LANGUAGES

Flutter

Asp.net mvc

C#

C++

Visual Basic

Python

Java

HTML

CSS

Oracle

SQL ,MySQL, Microsoft SQL Server

Interdev, JavaScript, PHP

MATLAB

## LANGUAGES

Arabic



English



## WORK EXPERIENCE

Assistant Professor

**German Jordanian University**

September 2023 – now

Amman, Jordan

Assistant Professor

**Applied Science Private University**

October 2020 – September 2023

Amman, Jordan

**Courses Taught:**

Structure Programming (C++)

Artificial Intelligence

Object Oriented (1) (Java)

Object Oriented (2) (Python)

Software Development and Documentation (Java Design Patterns)

Advanced Internet Computing (ASP.net mvc)

Database

Design and Analysis of Algorithms

Visual Programming (Flutter)

**Committees:**

Quality Committee

Community Service Committee

Scientific Research Committee

Researcher and Developer

**Trafalgar AI**

June 2019 – September 2020

UK/Online

Researcher and Developer at TooT (digital media company)

December 2014 – August 2019

Amman, Jordan

**Responsibilities:**

- "The Morocco stereotype" project.
- "The Gulf Crises" project.
- "Sunnah Shia Hate Speech" project.

Lecturer

**King AbdulAziz University**

October 2010 – June 2011

Rabigh, Saudi Arabia

Object Oriented 1 ( C++)

Object Oriented 2 ( Java)

Lecturer

**Hashemite University**

November 2002 – October 2010

Zarqa, Jordan

Visual programming 1 ( VB.Net)

Fundamental of computer science (c++)

Object Oriented 1 ( C++)

Object Oriented 2 ( Java)

Computer Skills1 2

Discrete Mathematics

Data Structure

Web Programming

Compiler

Logic Design

**Committees:**

Courses Scheduling Committee

Students supervision Committee

Projects discussion Committee

## PUBLICATIONS

### Journal Articles

- Al Mahmoud, Rana Husni, Bassam H. Hammo, and Hossam Faris (2023). "Cluster-based ensemble learning model for improving sentiment classification of Arabic documents". In: *Natural Language Engineering*, pp. 1–39.
- Al-Mahmoud, Rana Husni and Ahmad Sharieh (2022). "NGram Approach for Semantic Similarity on Arabic Short Text". In: *International Journal of Advanced Computer Science and Applications* 13.11.
- Al Mahmoud, RH et al. (2020). "Covid-19 global spread analyzer: an ML-based attempt". In: *Journal of Computer Science*, pp. 1291–1305.
- AlMahmoud, Rana Husni, Bassam Hammo, and Hossam Faris (2020). "A modified bond energy algorithm with fuzzy merging and its application to Arabic text document clustering". In: *Expert Systems with Applications* 159, p. 113598.

### Conference Proceedings

- Aref, Abdullah et al. (2020). "Hate speech detection of arabic short text". pp. 81–94.

## SCHOLARSHIPS

Academic Excellence Scholarship

**A scholarship for having the highest GPA in the Ph.D. program**

October 2018 - June 2019

The University of Jordan, Amman, Jordan

Top Bachelor Student Of Computer Science department at Hashemite University

**A scholarship for having Master degree in the University of Jordan**

September 2000 - November 2002

Hashemite University, Zarqa, Jordan