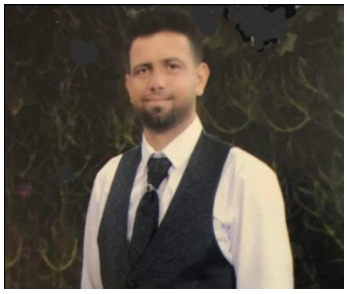
Curriculum Vitae(C.V)



**Personal Information:**

Name: Hasan Idais
Status: Married
Gender: Male
Nationality: Palestinian
Date of Birth: 20.Nov .1988
Address:Bait Omra Palestine
Cell phone: 0595497356
Email:hasan.idais@aaup.edu

**Academic Qualifications:-**

- 2016-2019. **PhD Applied Mathematics**, *Department of Mathematics– University of Granada*, Granada-Spain.
- 2010-2012. **M.Sc of Computational Mathematics**, *Al-Najah National University*, Palestine.
- 2006-2010. **B.Sc of Mathematics**, *Al-Najah National University*, Palestine
- **2006 :** General Examination Board, Scientific branch.

## Teaching:-

- Statistic, Numerical analysis, Math of management at Al- Quds open university (academic year 2013/14).

- Statistic with R programming , Calculus I, Differential Equations with Matlab and Applied mathematics, Granada University (academic year 2015/16).

- Stochastic Modeling and Calculus II, Granada University (spring 2016/17)

- Liner Algebra and Numerical Analysis ,Biostatistics , Granada University , Granada University (fall 2017/18).

- Engineering mathematics, Biostatistics, Business statistics, Arab American University (Spring 2018/19)

- Business statistics, advance statistics, Calculus 1, Arab American University (fall 2019/20)

- Biostatistics, Business statistics, Numerical Analysis, Engineering mathematics, Arab American University (summer 2019/20)

- Biostatistics for dental student, Mathematics in management, Engineering mathematics I Business statistics basic Math , Arab American University (summer 2020/21)

- Business statistics , basic Math, Arab American University (fall 2020/21)

- Mathematics for medical student, mathematics for information technology, Calculus (I), Arab American University (fall 2021/22)

- Discreet mathematics, mathematics for information technology , calculus I, biostatistics , Arab American University (spring 2021/22).

- Biostatistics for Medicine, student ,Business mathematics , basic mathematics, Arab American University (summer 2022)

-Advance statistics for PhD student, Business mathematics, Business statistics, Math for IT, Calculus 1, Arab American University (Fall 2022/23).

- Business statistics for master student, Business mathematics, Business statistics, Math for GIS student , Calculus 1, Biostatistics for dental student Arab American University (spring 2022/23).

- Business statistics , Biostatistics, Arab American University (summer 2022/23).

- Business statistics, Biostatistics , Discrete mathematics, Biostatistics for dental student, Calculus 1, Calculus II , Arab American University (fall 2022/23).

-Advance statistics for PhD student, Business mathematics, Business statistics, Math for IT, Calculus II, Arab American University (Spring 2023/24).

## Field of Research Interest:

### Mathematics

- Modeling and Simulation
- Approximation theory
- Partial Differential Equations
- Integral Equations
- Physical, Medical and engineering applications

### Statistics

- Statistics and operation research.
- Statistical analysis and similarity measure in simulation result.
- Data analysis in nursing, medicines and business researches.
- Educational technique in open and distance learning

## Publications:

1) Evolutionary computation of optimal knots allocation in smoothing splines of two variables, International Journal of Computational Intelligence Systems, Vol. 11(2018) 1294 -1306). **published**

2) The interpolation error of fuzzy data in 3D using similarity measures of fuzzy numbers, Journal of Mathematical Chemistry, 57, 1252-1267 (2019). **published**

3) Optimal knots allocation in the bicubic spline interpolation problem, Journal of Mathematics and Computers in Simulation- Elsevier, Vol, 164 (2019) 131 - 145). **Published**

4) 3D fuzzy data approximation by fuzzy smoothing bicubic splines, Mathematics and Computers in Simulation- Elsevier 164, 94-102 (2019).**published**

5) Optimal centers allocation in smoothing and interpolating radial basis functions, Mathematics 2021, MPDI. **Published**

6) Approximation of 3D trapezoidal fuzzy data using RBFs, Fuzzy Set and System- Elsevier, 11 May 2022. **Published**

7) A fuzzy linear Programing Model for Octagonal Fuzzy Number, Computational Mathematics and Modeling- Springer. **15 Jun 2024- Under Review**

## Master's Thesis ( Supervisor)

- Forward-backward finite difference methods for solving the two-dimensional wave equation.
- Finite deference method solution structure for two dimensional heat equation

## Master's Thesis ( Examiner)

1) Method for solving Fully Fuzzy Multi-objective linear programming problem

2) Solving Tow-Dimensional Fredholm Integral Equations Using Radial Basis Functions

3) Methods for solving some types of fully fuzzy non linear programming problems

## Recent and future Research:

1) Study a new methodology for optimal placement of random centers, for approximating or fitting a curve or surface to data, using radial basis functions of one or several variables.

2) We will continue studying the approximation and interpolation problems using several types of radial basis functions.

3)The consideration of more general interpolation problems when the knots are different from the interpolation points.

4)Study of the well-posedness of this general problem using some kind of Schoenberg's condition.

## Conferences:

1) The 7th international conference on approximation methods and numerical modeling in environment and natural resources, (mamern vii 2017),OUJDA-MOROCO,18 May 2017, approximation by fuzzy smoothing cubic splines.

2) The 7th international conference on approximation methods and numerical modeling in environment and natural resources, (mamern vii 2017),OUJDA- MOROCO, 19 May 2017, bicubic spline interpolation.

3) The 2nd CfP, CMMSE 2018, 9-13 July 2018, Cadiz, Spain, Approximation of fuzzy data by interpolation error using similarity measures.

4) The 6*th* Annual Symposium on Education and New Learning Methodologies Efficient Ecosystems for Industry-Based Learning Models, September 8, 2018, An- Najah University, Nablus, Palestine.

5) The Sixth Palestinian conference on Modern Trends in Mathematics and Physics, Palestine Technical University-kadoorie, October 7 ,2018.

6)Symposium on Simulation Technology-based Sciences and Engineering, Ramallah-Palestine,7-9 March 2019, Dose Selection Using Utility Index to Evaluate Risk-Benefit of Several Doses.

7) The Second season of the exploratory course of the STEM program, Palestine Technical University-kadoorie, August 11, 2021.

8) Data Science and statistical analysis, Palestine Technical University-kadoorie, November29,2021.

## Skills :

- Computer skills, Matlab, Python, R- Program , Minitab, SPSS, Word, Excel, Power Point, Internet Explorer, Latex.
- Work through e-learning using the zoom and model program.
- Strong communications and interpersonal skills.
- Ability to work in teams and independently.
- Self-disciplined with good time-management skills.

## Languages:-

1- Arabic language: mother language, excellent in reading, writing, conversation.
2- English Language: Excellent in reading, writing and Good in Conversation.
3- Spanish language : good in reading, writing and conversation.

## References:-


- Dr. Nouar Qutob, Dean Faculty of graduate studies, Arab American University Tel.- 0562000202,Email, nouar.qutob@aaup.edu
- Dr. Iyad Suwan, Department of mathematics and statistics, Arab American University Tel.- 0597480308, Email, iyad.suwan@aaup.edu