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CURRICULUM VITA
AMAL HIKMAT AL-SAKET

1. PERSONAL DATA

- Place of Birth: Al-Salt, Jordan.

- Nationality: Jordanian.

- Marital Status: Married with four children

- Email: **amal_saket@zuj.edu.jo**

- Google Scholar:

  https://scholar.google.com/citations?user=WhqtIEwAAAAJ&hl=en

- ResearchGate: **https://www.researchgate.net/profile/Amal_Al-Saket2**

- Phone Number: 962-0-779977021

- Address: P.O. Box 950360

  Postal Code No. 11195, Amman – JORDA

2. EDUCATION

- Ph.D. (Mathematics), Washington State University (WSU), U.S.A. ,1985

- M.Sc. (Mathematics), WSU, U.S.A, 1983.

- M.Sc. (Computer Science), WSU, U.S.A., 1982.

- B.Sc. (Mathematics), University of Jordan, Jordan, 1980.

3. LANGUAGES

- ARABIC: Speaking, reading and writing.

- ENGLISH: Speaking, reading and writing.

- FRENCH: Reading and writing.

- GERMAN: Reading.

4. TITLES OF THESES

- Ph.D. thesis in Mathematical Programming " An Algorithm with Degeneracy

  Resolution for Solving Certain Quadratic Programming Problems ".

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- M.Sc. thesis in Computer Science "A Comparison Test for Some Algorithms to solve the 0/1 Knapsack Problem".

5. <u>TEACHING EXPERIANCE</u>

- Teaching Assistant in Mathematics and Computer Science at WSU, USA (Feb.1980-Feb.1985).

- Assistant Professor in Mathematics and Computer Science at Yarmouk University, Jordan (Feb.1985-Feb.1986)

- Assistant Professor in Mathematics at the University of Jordan, Jordan (Feb.1986-Sep. 1997).

- Assistant Professor in Mathematics and Computer Science at Balqaa Applied University, Jordan (Sep. 1997- Feb. 1998).

- Assistant Professor in Mathematics and Computer Science with the Ministry of Higher Education, Oman (Feb. 1998- Sep. 2000).

- Assistant Professor in Mathematics and Computer Science at the Applied Sciences University, Jordan (Sep. 2000 – Sep. 2003).

- Assistant Professor in Mathematics at Al-Zaytoonah University, Jordan (Sep. 2003- Sep. 2015).

- Associate Professor in Mathematics at Al-Zaytoonah University, Jordan (since Sep. 2015).

6. <u>COURSES THAT I HAVE BEEN TEACHING :</u>

- Fundamentals of Mathematics (Freshman).
- Calculus I & II (Freshman).
- Calculus III (Sophomore).
- Discrete Mathematics (Sophomore).
- Linear Algebra (Sophomore).
- Real Analysis (Sophomore).
- Abstract Algebra (Sophomore).
- Ordinary Differential Equations (Sophomore).

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- Complex Analysis (Junior).

- Numerical Analysis I & II (Junior and Sophomore).

- Vector Analysis (Junior).

- Mathematical Programming I (Junior).

- Operations Research (Junior).

- Design and Analysis of Computer Algorithms (Junior).

- Matrix Computations (Senior).

- Graph Theory (Senior).

- Combinatorial Mathematics (Senior).

- Mathematical Modelling (Senior).

- Complex Analysis (Graduate).

- Special Topics: Network Analysis (Graduate).

- Mathematical Programming II (Graduate)

7. **COMPUTER EXPERIANCE**

- Have Good Command of **FORTRAN, PASCAL, FOX PRO ,** the **C++** Language , **JAVA** and **VISUAL BASIC, PYTHON AND MATLAB.**

- Have Been Working with the **OS/360, UNIX** and **MS-DOS** Operating Systems.

- Have Good Knowledge of **SOFTWARE ENGENEERING, SYSTEMS ANALYSIS, DATA BASE MANAGEMENT** and **COMPUTER HARDWARE.**

- Have Good Experience with **E-Learning.**

8. **CONFERENCES**

Participated in the 12th International Symposium on Mathematical Programming held at the Massachusetts Institute of Technology in August 1985.

Participated in the IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 2019.

9. **AWARDS AND GRANTS**

- Have awarded a royal watch by King Hussain as an award for graduating with first rank in the B.Sc. in Mathematics from the University of Jordan.

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- Have granted a <u>scholarship</u> from University of Jordan for my graduate studies.

- Have awarded a <u>royal trophy</u> by Queen Noor on the International Women's Day for being a woman pioneer in having a Ph.D. in Mathematics.

- Have granted the <u>DAAD Scholarship</u>, in Germany, for the summer of 1989.

10. RESEARCH INTERESTS

- Mathematical Programming.
- Matrix Computations
- Numerical Analysis
- Graph Theory.

11. PUBLICATIONS

- Amal Al-Saket; " An Algorithm with Degeneracy Resolution for Solving Certain Quadratic Programming Problems "; the 12th International Symposium on Mathematical Programming; Massachusetts Institute of Technology; USA; 1985.

- Amal Al-Saket; "On Determining Bounds for the Real Parts of the Zeros of Polynomials"; Linear and Multilinear Algebra; Vol. 60(3), pp. 377-382, (2012).

- Amal Al-Saket; "On Estimating a Lower Bound for the Laplacian Spectral Radius of Triangle-Free Graphs"; Int. J. Contemp. Math. Sciences; Vol. 7(46), pp. 2265-2275, (2012).

- Amal Al-Saket; "Estimating the Algebraic Connectivity of Triangle-Free Graphs "; International Mathematical Forum; Vol. 8(26), pp. 1279-1286, (2013).

- Amal Al-Saket; "On the Real Part of the Frobenius Companion Matrix of Polynomials "; Int. J. Contemp. Math. Sciences; Vol. 8(13), pp. 615-621, (2013).

- Amal Al-Saket; "Some Results for the Laplacian Eigenvalues of Graphs"; Advances and Applications in Discrete Mathematics; Vol. 12(2), pp. 151-161, (2013).

- Amal Al-Saket; "Some Results for the Zeros of a Class of Fibonacci-Type Polynomials "; Journal of Mathematical Inequalities; Vol. 10(1), pp. 45-52, (2016). doi: 10.7153/jmi-10-04.

- Amal Al-Saket; "On the zeros of a Class of Bivariate Fibonacci Polynomials"; Far East Journal of Mathematical Sciences; Vol. 105(2), pp. 233-242, (2018). dx.doi.org/10.17654/MS105020233.

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- Amal Al-Saket and Dua' Arman; "An Active Set Method for Solving Certain Support Vector Machine Problems"; the IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT); (2019).

- Zaydoun Abusalem, Issam Odeh, Nabil Al-Hazim, Subhi M. Bazlamit, and Amal Al-Saket; "Analysis of Air Pollutants' Concentration in Terms of Traffic Conditions and Road Gradient in an Urban Area"; Jordan Journal of Civil Engineering; Vol. 13(3), pp. 405-411; (2019).

- Amal Al-Saket; "On Finding the Eigenvalues of Certain Tridiagonal Matrices"; Far East Journal of Mathematical Sciences; Volume 118(1), pp. 9-23; (2019) dx.doi.org/10.17654/MS118010009".

12. REFERENCES

- Professor Awad Khlayfat
  Former Minister of Higher Education
  Former Vice Prime Minister, Amman, Jordan.

- Professor Abdelrahim Al-Hunaiti
  President of Mutah University, Jordan
  E-mail: hunaiti@mutah.edu.jo

- Professor Fuad Kittaneh
  Dean of Sciences
  University of Jordan
  Amman, Jordan
  E-mail: fkitt@ju.edu.jo

- Professor Charles B. Millham
  Department of Computer Science
  Washington State University, Pullman, WA 99163

- Professor Robert Mifflin
  Department of Pure and Applied Mathematics
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- Professor David Watkins
  Department of Pure and Applied Mathematics
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- Professor Osama Al-Shaykh
  Boston University
  E-mail: osama@bu.edu