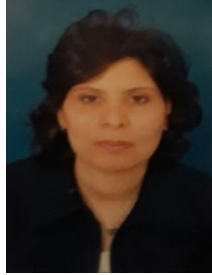


Souad Ahmed Abumaryam Curriculum Vitae (CV)(October-2024)

سعاد أحمد أبو مريم (السيرة الذاتية)



Contact Information

Address:- Twenty Street, Sirte, Libya

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Mobile:- 00218913789833

Language:- Arabic (mother tongue) and English.

Sex:- Female

Memberships:- London Mathematical Society (LMS).

Academic Degree:- Associate Professor

Research Interests

Polynomials and Rational Interpolation, Chebyshev Approximation, Complex Analysis, Complex Approximation, Spectral Approximation, Integral Equation, Fractional Analysis, Umbral Calculus, Differential Equations, Number Theory and Cryptography Algorithm.

Education

Ph.D., Mathematics, University of Leeds, UK, 2014.

M.Sc., Information Technology, Wales University, UK, 2005.

B.Sc., Mathematics and Computing, Sirte University, Sirte, 1996.

MSc Thesis: Analysis and implementing Wireless LAN.

PhD Thesis: Numerical and Symbolic Aspects of Harmonic Analysis

Responsibilities:

- Head of mathematics department – Sirte University - Libya.
- Editorial member of a scientist journal (AL-BAYAN).

Work Experience

• Demonstrator: Mathematics Department, Faculty of Science, Sirte University
From September 1996 to October 2000.

• . Lecturer: Mathematics Department, Faculty of Science, Sirte University From
Jan 2005 to August 2008.

• Lecturer: Mathematics Department, Faculty of Science, Sirte University From
Marc 2015 to present.

Research Interests

Polynomials and Rational Interpolation, Chebyshev Approximation, Complex Analysis, Complex Approximation, Spectral Approximation, Special functions, Umbral Calculus, Differential Equations, Functional Analysis, Number Theory and Cryptography Algorithm.

Other experience

- London Mathematical Society (LMS).
- Member of Academic Center for Future Studies (عضو بالمركز الأكاديمي للدراسات المستقبلية) (2023-2024)
- Reviewer at
 - Sebha university scientific journal (applied and pure sciences)
 - Al-bayan scientific journal
 - Baghdad science journal

Teaching and Job Experience

- I gave tutorial in several courses such as: Number System, Foundation of Geometry in Leeds University.
- I helped with marking and Exams marking in Leeds University in many subjects in different level such as general mathematics, foundation of geometry, partial differential equation and analytic study (2010-2014).
- I have been a member of the monitoring committee and the monitoring committee at the science school many times.
- I have been evaluated many of Graduate projects and master dissertations.
- I have been supervised many of Graduate projects.
- I have evaluated many of research papers.
- I have participated in evaluating the new staff teaching in Sirte university
- I participated in the supervision of secondary school exams.

Subjects have been taught (Bachelor)

I have taught various courses such as:

Subjects	School
General Mathematics	Science
Calculus I & Calculus II	Science-Economic
Linear Algebra	Science
Differentiation and integration I & II	Science
Complex Analysis	Science
Ordinary Differential Equations	Science
Biostatistics	Science-Medicine-Dentist
Foundations of Geometry	Science
Discrete Mathematics	Science
Numerical Analysis	Science
Real analysis II	Science
Number Theory	Science
Mathematical Methods	Science
Vector Analysis	Science
Functional Analysis	Science
Computer Applications	Science
Networks	Science
Software Engineering	Science
Teaching Methods for Mathematician	Science
Foundations of mathematics curricula	Science
Numerical Analysis	Science
Real analysis 2	Science
Analytic engineering	Science

Mathematical Logic	Science
Partial Differential Equation	Science
Vector Analysis	Science
Mathematical Statistics	Science
Number Theory	Science
Topology	Science

Subjects have been taught (MSc and PhD)

I have taught various courses such as:

Subjects	Departments
Advanced Numerical Analysis (تحليل عددي متقدم)	Mathematics
Independent skills (مهارات ذاتية)	Mathematics
Measure Theory and Probability (نظرية القياس واحتمالات)	Mathematics
Functional Analysis (تحليل دالي)	Mathematics
Topology (توبولوجي)	Mathematics
Approximation Theory (نظرية التقريب)	Mathematics
Biostatistics (احصاء حيوي)	Biology and Botany science
Mathematical Methods (طرق رياضية)	Physics
Numerical Analysis for Engineering (تحليل عددي)	Engineering

External Examiner of the following Master's Dissertation:

I have been evaluated many of master's dissertations :

- 1- Numerical process of two-dimensional Laplace equation using finite difference and finite element methods. Sebha University 2019 (جامعة سبها).
- 2- The Fekete Szego problem for some subclasses of analytic function. Benghazi University 2021 (جامعة بنغازي)
- 3- Surfaces Curvatures in Three Dimensional Euclidean and Minkowskian Spaces. Omar Almuktar University 2022 (جامعة عمر المختار)
- 4- Uncertainty in two predator prey one model. Sebha University 2023 (جامعة سبها)
- 5- Comparison of connectedness in crisp and fuzzy topological space. Sebha University 2023 (جامعة سبها)
- 6- Convexity of topological spaces. Misurata University 2022 (جامعة مصراتة)
- 7- Theory of 2 Banach space. Benghazi University 2023 (جامعة بنغازي)
- 8- Theory if 2 inner product Spaces and orthogonally. Benghazi University 2022 (جامعة بنغازي)
- 9- Deficiency of meromorphic function. Benghazi University 2023 (جامعة بنغازي)
- 10- Some Properties of Fuzzy Hyper-soft Topological Spaces (جامعة مصراتة)

Societies-Volunteering

I Contributed to

- 1- The eradication of illiteracy (محو الأمية).
- 2- Breast cancer awareness (التوعية بسرطان الثدي)
- 3- Free reinforcement courses for high school mathematics subjects (دورات مجانية لطلبة الشهادة الثانوية)

Conference and Seminars

Attended and Participated

- Supporting postgraduates who teach Mathematics and Statics.
- North British Functional Analysis (NBFAS)(Many times in Newcastle, Oxford, york and Sheffield).

- Yorkshire Functional Analysis Group (YFAG)(Many times and places) such as Oxford university, Newcastle university, York university, Sheffield UK.
- Women in Maths (Many times and places) London. Mchester,UK.
- British Applied Mathematics (BAMC) Leeds University UK.
- Operator algebra conference, Leeds University UK.
- Banach algebra, Leeds University UK.
- Mathematics computation conference in Durham university.
- Summer school for mathematics conference in Durham university.
- Mathematics teachers conference Leeds University.
- Leeds-Manchester Seminar in Manchester University and Leeds University.
- The first annual university of Leeds postgraduate's researcher, Leeds University.
- The second annual university of Leeds postgraduate's researcher, Leeds University.
- School administration and administrator, Education school, Sirte University, 2018.
- Save your environment, Science school, Sirte University, 2018.
- The First International Conference on Science and Technology, Sebha University, 2 February 2018.
- The Second Annual Conference on Theories and Applications of Basic and Biosciences, Misurata University, 1 September 2018.
- The Third International Conference for Basic Sciences and Their Applications, Omar Al-mukhtar University, Al-Byda, 2-5 October 2018.
- The Second National Meeting of Directors of Quality and Performance Offices for Libyan Universities (Reality and development potential), Sirte University.
- International Conference on Mathematical Methods in Physics, 1-5 April 2019 Marrakech, Morocco (مراكش- المغرب).
- The Third Annual Conference on the Theories and Applications of Basic and Biosciences, 7 September 2019, Misrata.
- The First Conference for Education , Sirte University, 5-7 October 2019.
- The Second Conference for Engineering Science and Technology, Sabratha, 29-31 October 2019.
- I gave talk : The reasons behind students, disinterest in Mathematics (Workshop) Feb 2020.
- The fourth Annual Conference on the Theories and Applications of Basic and Biosciences, 4 September 2020, Misrata.
- 3rd Breast cancer international conference, Misrata, November 2021 (معهد الأورام مصراتة).
- The second Conference for Education , Sirte University,.
- The first International Conference of the faculty of Science, al-zawia, 2021 (الزاوية)
- Seminar in on projet to evaluate the efficiency of a radiology examination using Thallium-SPECT in the differentiation between Tumor crecurrence and treatment-related changes in a brain Tumor called Glioblastome 13 June 2022, Krankenhaus der barmherzigen Burder – Trier. , Germany.
- Seminar in Geometry of Symmetric Spaces- 13 of June, Seminar in Geometry of Symmetric Spaces- 13 of June, Max-Planck Institute Mathematics-Bonn, Germany.
- ICM Mathematics 5-7 July, Max-Planck Institute Mathematics-Bonn, Germany.
- The Third Conference for Education , Sirte University, 2024.

Some of skills Training Courses and other courses

- Introduction to programming, Leeds University UK.
- Unix/Linux introduction, Leeds University UK..
- Matlab course, Leeds University UK..
- Effective Poster presentation, Leeds University UK.
- Ownership, confidently and secrecy in research, Leeds University UK.
- Working with literature: impact evaluation and reading strategies, Leeds University UK..
- Time management during your research, Leeds University UK.
- Effective writing, Leeds University UK.
- Scientific research philosophy: putting theory into practice, Leeds University UK.
- Researcher @Leeds, Leeds University UK.
- LaTeX Courses, Leeds University UK.
- Dr Who, Leeds University UK.
- Introduction to image, Leeds University UK.
- Spaces of analytic function, Leeds University UK.
- Classical Wavelet theory, Leeds University UK.
- Hilbert space, Leeds University UK.
- Summer school in computational mathematics and scientific computing in Durham.
- Effective science programming in Newcastle.
- Magic Courses, Leeds University UK such as:-:
 - The Heisenberg group in mathematics and physics.
 - Mathematical methods.
 - Advanced numerical analysis.
 - Presentation theory.

Publications

1. Abomariam, S and Elzeiny, Sh. On the recursive sequence Altahadi University journal Sirte, 2009.
2. Abumaryam, S. The Convergence rates of Chebyshev Interpolation, First International Conference on Science and Technology, Sebha, 2018.
3. Abumaryam, S. The Convergence of Polynomial Interpolation and Runge Phenomenon, Sirte University Journal, 2018.
4. Abumaryam, S. Approximating of the derivatives function using Chebyshev polynomials, International Mathematics Journal, 2018.
5. Abumaryam, S. Lebesgue functions and Lebesgue constants in polynomial interpolation, The 3rd International Conference For Basic Sciences and Their Applications, Al-Byda, 2018.
6. Abumaryam, S. Differentiation Matrix by Chebyshev Polynomials, The Second Annual Conference on Theories and Applications of Basic and Biosciences, Misuratau, 2018.
7. Abumaryam, S. The bound of the Lebesgue constant in Lagrange interpolation at equidistant points, The Third Annual Conference on Theories and Applications of Basic and Biosciences, Misuratau, 2019.
8. Abumaryam, S, Atbaiga, N and Mohamed, H. The Mathematics Behind The RSA Algorithm, The Second Conference for Engineering Science and Technology, Sabratha, 2019.
9. Abumaryam, S. The reasons behind students, disinterest in Mathematics, The Second Conference, Sabratha, 2020 (in Arabic Language).
10. Abumaryam, S. Some Remarks on Rational Interpolation, Sirte University Journal, 2020.
11. Abumaryam, S, and et al. Oscillation Criterion for Some Differential Equations of Second Order with Integrable Coefficients, Zawia University Journal. 2021

12. Abumaryam, S. The Implementation of Fuzzy Logic and Fast Fourier Transformation in Image Processing (Linear & Non-Linear Filters), Sirte University Journal, 2024.

13. Abumaryam, S, and et al. Oscillatory Solutions of Nonlinear Differential Equations of Second-Order with Variable Coefficients, Sirte University Journal, 2024.

Referenced

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Homepage: <http://www.maths.leeds.ac.uk/kisilv/>

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E-mail: J.R.Partington@leeds.ac.uk / +44 113 343 5123

27.10.2024