

Mufida Mohamed A. Hmaida

Contact Information

Department of Mathematics, *Phone:*
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Misurata University
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Research Interests

Representation theory of finite groups and finite dimensional algebras, cellular algebras, diagrams algebra, number theory, integral equations, topology and algebraic geometry.

Education

University Of Leeds, Leeds, UK

- Ph.D. in Mathematics. (April, 2013- January, 2017)
Dissertation Topic: "Representation Theory Of Algebras Related To The Bubble Algebra"
Advisors: Prof. Alison Parker, Prof. Paul Martin

Misurata University, Misurata, Libya

- M.S. in Mathematics, Faculty of Science. (September, 2005- July, 2009)
- B.A. in Mathematics, Faculty of Science. (September, 2001- July, 2005)

Academic Experience

Editorial Advisory Board member: Turkish Journal of Statistics and Data Science. March, 2024-Present

Director of the Studies and Examination Office: Faculty of Science, Misurata University, Misurata, Libya December 2023-Present

Director of the Quality Assurance Office: Faculty of Science, Misurata University, Misurata, Libya April 2023-February 2024

Director of the Office of Community Service and Continuing Education: Faculty of Science, Misurata University, Misurata, Libya March 2022-September 2023.

Member of the committee supervising the Annual Conference on Theories and Applications of Basic and Biosciences: Faculty of Science, Misurata University March 2020-Present

Assistant Professor: Mathematics Department, Faculty of Science, Misurata University, Misurata, Libya April 2020-Present

Duties at various times have included office hours and teaching some modules as Complex Analysis, Number theory, Integral equations, Linear algebra and Abstract algebra.

Managing Editor: Science Journal, Faculty of Science, Misurata University
January, 2022- March 2023.
March, 2024- Present.

Editor: Science Journal, Faculty of Science, Misurata University, Libya January, 2019 - December, 2021

Cooperating Lecturer: General Department, Faculty of Economics and Political Science, Misurata University, Misurata, Libya Fall 2018- Fall 2022.

Lecturer: Mathematics Department, Faculty of Science, Misurata University, Misurata, Libya May, 2017-2019

Duties at various times have included office hours and teaching some modules as Complex Analysis, Numerical methods, Calculus and Abstract algebra.

PhD. Student , University of Leeds, Leeds, UK April, 2013- January, 2017
Duties have included marking homework assignments and exams, and doing some tutorials.

Head master of Mathematics Department, Faculty of Science, Misurata University, Misurata, Libya April-October 2012

Assistant Lecturer: Mathematics Department, Faculty of Science, Misurata University, Misurata, Libya October, 2009-October, 2012

Duties at various times have included office hours and teaching some modules as Calculus, linear

Algebra, Number Theory, Numerical and Complex Analysis, Differential and Integrable Equations and Abstract algebra.

Demonstrator: Mathematics Department, Faculty of Science, Misurata University, Misurata, Libya
January, 2006-July, 2009 .

Publications

Published

- Proposed method for estimating parameters of Archimedean spirals, *Journal of the Indian Society for Probability and Statistics*, Vol. 24, issue 2(2023).
- Relations between almost nearly open sets in finite topological spaces, *Journal of Anwar Al-marefa, Zaytuna university*, Vol. 13 (2023), 357 – 365.
- A Study of Some Sets that Nearly Open Sets, *Journal of Science, Misurata university*, Vol. 15 (2023), 85 – 89.
- Review Of Calculating Invariant Rings Of Symmetric Groups, *Journal of Academic Research (Applied Sciences), The Libyan Academy, Misurata*, Vol. 17(Jan/2021), 53 – 57.
- A cellular algebra with specific decomposition of the unity, *Communications in Algebra, Taylor and Francis*, Issue 48:9(2020), 3962 – 3972, DOI: 10.1080/00927872.2020.1753059.
- The Bubble Algebras at Roots of Unity, *Journal of Academic Research, The Libyan Academy, Misurata*, Issue 13(2019), 15 – 26.
- A Comparison of Four Techniques For Solving Non-Singular Fredholm Integral Equations, *Journal of Science, Misurata university*, Vol. 7 (2018), 31 – 34.
- Numerical Solutions of Non-linear Fredholm Integral equations of the Second Type, *The Second Annual Conference on Theories and Applications of Basic and Biosciences, Misurata university*(2018), 562 – 566.
- Special Elements Of The Bubble Algebra, *The First Annual Conference on Theories and Applications of Basic and Biosciences, Misurata university*(2017), 338 – 344.
- The Approximate Solutions of Fredholm Integral Equations of the Second Kind, *The third national conference for basic sciences, Al Jabel Algharbi university, Libya*(2009).

In-Progress

- Curve Fitting of Archimedean Spirals, with Dr. Mai Alfahad.
- Basics of Abstract algebra, textbook in Arabic, with Dr. Noha aljamal.
- The multi-color partition algebras revisited.

Conferences/ Workshops

- The sixth Annual Conference on Theories and Applications of Basic and Biosciences(Poster and Presentation), Misurata university, (04/09/2022).
- Workshop on the development of Arabic periodicals,virtual, (17/8/2022).
- The Forth Academic Conference on Economics and Business Studies(The Business Sector in Light of the COVID-19 Pandemic), Misurata university, (11/12/2021).
- The Fifth Annual Conference on Theories and Applications of Basic and Biosciences, Misurata university, (04/09/2021).
- Women in Combinatorics and Representation Theory, virtual workshop, University of California, virtual, 15th – 16th May 2021.
- Poster Day For The Academic Year 2020/2021, Curve Fitting of Archimedean Spirals, with Dr. Mai Alfahad, Kuwait University, (21/03/2021).
- The Second Annual Conference on Theories and Applications of Basic and Biosciences, Misurata university, (01/09/2018).

- The First Annual Conference on Theories and Applications of Basic and Biosciences, Misurata university, (09/09/2017).
- Representation Theory and Physics, university of Leeds, 18th – 22th July 2016.
- Representations of Algebraic groups, university of York, UK, 13th – 15th July 2016.
- Modelling Topological Phases of Matter Workshop, university of Leeds, 5th – 8th July 2016.
- Birmingham young mathematician colloquium, university of Birmingham (13/05/2015).
- The 43rd ARTIN meeting ” Young researchers meeting”, university of Leeds, 6th – 7th March 2015.
- Mirror Symmetry and Cluster Algebras Workshop, University of Leeds, 11th – 13th September 2013.
- Quantum Computing: a Quantum Group Approach, mini workshop, University of Leeds, 1st – 2nd July 2013.
- The 32nd Mathematics Teachers and Advisers Conference, University of Leeds, 25/06/2013.
- School in Dynamical systems, University of Tripoli, Libya, 23/11 – 1/12 2010.
- The third national conference for basic sciences, Al Jabl Algharbi university, Gharyan, Libya 25th – 27th April 2009.

Additional Skills

- Languages: Arabic(native), English(fluent).
- Programming: WxMaxima(advanced), Matlab(intermediate), L^AT_EX(advanced), Common Windows and Presentation Software.

References

Prof. William Crawley-Boevey(University of Leeds)	W.Crawley-Boevey@leeds.ac.uk
Prof. Robert Marsh(University of Leeds)	R.J.Marsh@leeds.ac.uk
Prof. Paul Martin(University of Leeds)	P.P.Martin@leeds.ac.uk
Dr. Rowena Paget(University of Kent)	R.E.Paget@kent.ac.uk
Prof. Alison Parker(University of Leeds)	A.E.Parker@leeds.ac.uk
Dr. Shona Yu(Western Sydney University)	S.Yu@westernsydney.edu.au