Mufida Mohamed A. Hmaida

Contact Information	Department of Mathematics, *Phone:* (218) Faculty of Science Misurata University *E-mails:* mofeedae@yahoo.com Misurata, Libya mu.hmaida@sci.misuratau.edu.ly
Research Interests	Representation theory of finite groups and finite dimensional algebras, cellular algebras, diagrams algebra, number theory, integral equations, 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

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

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.

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

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

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.

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

Editor: Science Journal, Faculty of Science, Misurata University, Libya   2019-Present

Managing Editor: Science Journal, Faculty of Science, Misurata University   Jan, 2022-Present

Assistant Professor: Mathematics Department, Faculty of Science, Misurata University, Misurata, Libya   April, 2019-Present

Publications	**Published**

- 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, 10 pages, submitted

- Basics of Abstract algebra, textbook in Arabic.

- The multi-color partition algebras revisited.

Conferences/ Workshops	

- 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, Riverside, $15^{th} - 16^{th}$ 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, $18^{th} - 22^{th}$ July 2016.

- Representations of Algebraic groups,university of York, UK, $13^{th} - 15^{th}$ July 2016.

- Modelling Topological Phases of Matter Workshop, university of Leeds, $5^{th} - 8^{th}$ July 2016.

- Birmingham young mathematician colloquium, university of Birmingham (13/05/2015).

- The 43rd ARTIN meeting " Young researchers meeting", university of Leeds, $6^{th} - 7^{th}$ March 2015.

- Mirror Symmetry and Cluster Algebras Workshop, University of Leeds, $11^{th} - 13^{th}$ September 2013.

- Quantum Computing: a Quantum Group Approach, mini workshop, University of Leeds, 1st- $- 2^{nd}$ 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 $25^{th} - 27^{th}$ April 2009.

Additional Skills

- Languages:Arabic(native), English(fluent).
- Programming: WxMaxima(advanced), Matlab(intermediate), LaTeX(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