

Mohammad A. Sabawi

Curriculum Vitae

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Mathematics Department
College of Education for Women
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Education (Academic Qualifications)

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| 2012–2018 | PhD in Mathematics, University of Leicester, UK. |
| 2012 | English Language Course, University of Leicester, UK. |
| 2002–2005 | MSc in Mathematics, University of Mosul, Iraq. |
| 1998–2002 | BSc in Mathematics, University of Mosul, Iraq. |

Employment

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| 2008– | Lecturer, Mathematics Department, College of Education for Women, Tikrit University, Tikrit, Salah Al-Dean Province, Iraq. |
| 2005–2008 | Assistant Lecturer, Mathematics Department, College of Education for Women, Tikrit University, Tikrit, Salah Al-Dean Province, Iraq. |

Research Interests

- Numerical Analysis
- Finite Element Methods

- Numerical Solutions of PDEs
- A Posteriori Error Analysis
- DG TimeStepping Schemes

Professional Experience

I worked at the University of Tikrit in Iraq from 2005–2012 as a teaching fellow, assistant lecturer and as a lecture for undergraduate courses. I taught a significant number of courses as follows:

- Basics of Computer
- Linear Algebra
- Calculus
- Abstract Algebra
- Foundations of Mathematics
- Numerical Analysis

During this period of time I acquired and developed important teaching and learning skills and expertise such as better communications with students and deeper understanding of mathematics and its applications as an essential problem solving tool.

Skills

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| MATLAB | Good |
| C++ | Basic |
| Deal.II | Working Knowledge |
| LaTeX | Very Good |
| Microsoft Word | Very Good |
| Microsoft PowerPoint | Good |

Languages

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| Arabic | Mother Tongue |
| English | Very Good |

Memberships

2018– | Iraqi Al-Khwarizmi Society (for Mathematics).

Conferences and Workshops

- 2nd International Conference for Engineering, Technology, and Science (ICETS), Al-Kitab University, Erbil, Iraq, December, 4–5, 2018.
- International Conference on New Trends in Computing, Communications, and Information Technology (NTCCIT), Al Mansour University College, Baghdad, Iraq, November 14–15, 2018.
- 26th Biennial Conference on Numerical Analysis, Strathclyde University, Glasgow, UK, June 23–26, 2015.
- Workshop on Recent Advances in Discontinuous Galerkin Methods, University of Reading, Reading, UK, September 11–12, 2014.
- Phase Field Conference University of Leicester, Leicester, UK, September 09–11, 2013

Student Projects Supervision

UG | BSc in Mathematics (3).

Publications

Theses

- M Sabawi, Discontinuous Galerkin Timestepping for Nonlinear Parabolic Problems, PhD Thesis, University of Leicester, UK, 2018.
- M. Sabawi, Numerical Solution and Stability Analysis of Huxley Equation, MSc Thesis, University of Mosul, Iraq, In Arabic, 2005.

Journal Research Papers

- [1] S. Manaa and M. Sabawi, *Numerical Solution and Stability Analysis of Huxley Equation*, Raf. J. of Comp. & Math's, Vol. 2, No. 1, 2005.
- [2] S. Manaa and M. Sabawi, *Stability Analysis of Steady State Solutions of Huxley Equation*, Raf. J. of Comp. & Math's, Vol. 2, No. 1, 2005.

- [3] M. Sabawi, *Stability Study of Stationary Solutions of the Viscous Burgers Equation*, Raf. J. of Comp. & Math's, Vol. 4, No. 1, 2007.
- [4] S. Manaa and M. Sabawi, *Numerical Solution of Oscillatory Reaction-Diffusion System of α - β Type*, Tikrit Journal of Pure Science, Vol. 13, No. 2, 2008.
- [5] S. Manaa, M. Sabawi and Y. Sabawi, *A Numerical Solution for Sine-Gordon Type System*, Tikrit Journal of Pure Science, Vol. 15, No. 3, 2010.
- [6] A. Cangiani, E. Georgoulis and M Sabawi, *A Posteriori Error Analysis for Implicit-Explicit hp -Discontinuous Galerkin Timestepping Methods for Semilinear Parabolic Problems*, Submitted for Publication.
- [7] M. Sabawi, *A Posteriori Error Analysis for Semidiscrete Semilinear Parabolic Problems*, NTCCIT Conference, Al-Mansour University College, Baghdad, Iraq, November 14–15, 2018.
- [8] M. Sabawi, *A Posteriori Error Analysis for Fully Discrete Semilinear Parabolic Problems*, ICETS, Al-Kitab University, Erbil, Iraq, December 4–5, 2018.