CURRICULUM VITAE OF Dr. HASSAN AL SALMAN

CONTACT INFORMATION:

***Full Name*:** Hassan Jawad Al Salman
***Address*:** King Faisal University
Department of Mathematics
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Al-Hassa 31982
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ACADEMIC DEGREES:

***1997 – 2001*: B. S. in Mathematics**
King Faisal University, Al-Hassa, Saudi Arabia.

***2002 – 2005*: M. S. in Mathematics**
King Faisal University, Al-Hassa, Saudi Arabia.

***2007 – 2010*: Ph. D. in Numerical Analysis**
University of Durham, Durham, UK.
Thesis: "Analysis of Two Classes of Cross Diffusion Systems".
Adviser: Dr. James F. Blowey (J.F.Blowey@durham.ac.uk).

ACADEMIC POSITIONS:

***2002 – 2007*: Teaching Assistant**
Ministry of Higher Education, Al-Hassa Teachers Collage, Department of Mathematics, Al-Hassa, Saudi Arabia.

***2007 – 2011*: Lecturer in Mathematics**
Ministry of Higher Education, King Faisal University, Department of Mathematics, Al-Hassa, Saudi Arabia.

***2011 – present*: Assistant Professor**
Ministry of Higher Education, King Faisal University, Department of Mathematics, Al-Hassa, Saudi Arabia.

RESEARCH INTERESTS:

***General*:** Numerical Analysis of Partial Differential Equations, Mathematical Analysis, Scientific Computing.

***Specific*:** Finite Element Approximation of Nonlinear Partial Differential Equations, Cross Diffusion Systems, Global Existence and Uniqueness Results, Error Bounds, Long Time Behaviour, Numerical Simulations Using Fortran/Matlab.

THESIS:

AL-SALMAN, HASSAN,JAWAD (2010) *ANALYSIS OF TWO CLASSES OF CROSS DIFFUSION SYSTEMS*. Doctoral thesis, Durham University.

PUBLICATIONS

A. A. Alghafli and **H. J. Alsalman**, *An improved error bound for a finite element approximation of a reaction-diffusion system of Lambda-Omega type*, Applied Mathematics and Computation, **246** : 491-501, 2014.

H. J. Alsalman and A. A. Alghafli, *Analysis of a nonlinear cross-diffusion system arising in population dynamics*, In preparation.

A. A. Alghafli and **H. J. Alsalman**, *An optimal error bound for a finite element approximation of a nonlinear reaction-diffusion system modelling predator–prey interactions*, In preparation.

CONFERENCES:

July 2010 LMS Durham Symposium on "Numerical Analysis of Multiscale Problems", University of Durham, Durham, UK.
June 2012 SIAM Conference on Nonlinear Waves and Coherent Structures, University of Washington, Seattle, United States.
September 2012 " International Conference on Nonlinear Partial Differential Equations", University of Oxford, Oxford, UK.
April 2013 " British Applied Mathematics Colloquium 2013", University of Leeds, Leeds, UK.
June 2013 "The fourteenth conference on the Mathematics of Finite Elements and Applications", Brunel University, London, UK.

August 2014 " International Conference on Mathematics and Computational Science" , London, UK.
April 2015 "The Joint British Mathematical Colloquium and British Applied Mathematics Colloquium 2015", Cambridge, UK.

TEACHING EXPERIENCE:

- General Mathematics
- Calculus I
- Calculus II
- Principles of Algebra
- Linear Algebra
- Set Theory
- Topology
- Number Theory
- Partial Differential Equations
- Functional Analysis

SCIENTIFIC COMPUTING SKILLS:

- Fortran
- Matlab

WRITING SKILLS:

- Latex
- Microsoft Word

LANGUAGES:

- Arabic
- English