CIRRICULUM VITAE

Dr. AHMED AL GHAFLI

Personal Information:

Full name: Ahmed Ali Mohammed Al ghafli

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Education:

1999-2002   B.S. in mathematics, Department of Mathematics, King Faisal University, Saudi Arabia.

2002-2005   M.S. in mathematics, Department of Mathematics, King Faisal University, Saudi Arabia.

2007- 2010   Ph.D. in Numerical Analysis, University of Durham, Mathematical Sciences Department, UK. PhD Thesis Title:" Mathematical and Numerical Analysis of a Pair of Coupled Cahn-Hilliard Equations with a Logarithmic Potential"

Academic Positions:

2002-2005: Teaching Assistant in Department of Mathematics, King Faisal University.

2005-2010: Lecturer in Department of Mathematics, King Faisal University.

2011-present: Assistant professor in Department of Mathematics and statistics, King Faisal University.

Publications:

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

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

[3] A. A. Alghafli and H. J. Alsalman (2014) *An optiml error bound for a finite element approximation of a nonliner reaction-diffusion system modeling predator-prey interactions* , In preparation.

Teaching Experience:

Calculus (I)- Calculus (II)- Calculus (III)- Applied Mathematics- Real Analysis- Linear algebra- Set Theory- Numerical Analysis-General Mathematics- PDEs-Logic and Proof Methods.

Research Interests:

- Numerical Analysis of Partial Differential Equations.

- Mathematical Analysis of Partial Differential Equations.

- Computational Mathematics and Numerical Simulations.

Conferences:
2008: Magic Postgraduate Conference, University of Liverpool, Liverpool, UK.
2008: LMS Durham Symposium on Computational Linear Algebra for Partial Differential Equations, University of Durham, Durham, UK.
2010: LMS Durham Symposium on Numerical Analysis of multi scale problems, University of Durham, Durham, UK.

Computing Skills:○
Programming experience in: Matlab- Fortran- Mthematica.

Languages:

Arabic – English.