

CURRICULUM VITAE

PERSONAL DATA

Name	Rubayyi turki alqahtani
Nationality	Saudi
Position	Professor
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Phone	

EDUCATION

Year	Academic Degree	Institution
2013	PhD	Wollongong University
2010	Master	Wollongong University
2007	Bachelor	King saud University

WORK EXPERIENCE

Period	Position	Address
2014-2017	The head of math. Dep. at Al-Imam Mohammed Ibn Saud University	

RESEARCH INTERESTS

1. Mathematical modeling and numerical analysis.
2. Engineering, Applied and Computational Mathematics.
3. Bifurcation theory.
4. Dynamical systems.
5. Control theory and singularity theory.
6. Fractional calculus.

PUBLICATIONS

1. Space-Time Spectral Collocation Algorithm for the Variable-Order Galilei Invariant Advection Diffusion Equations with a Nonlinear Source Term, *Mathematical Modelling and Analysis*, vol. 22, no. 1, pp. 1–20, 2017.
2. Shifted Jacobi spectral collocation method for solving two-sided fractional water wave models, *European Physical Journal Plus*, vol. 132, no. 1, pp. , 2017.
3. Shifted Jacobi collocation method for solving multi-dimensional fractional Stokes' first problem for a heated generalized second grade fluid, *Advances in Difference Equations*. , 2016.
4. Space-time spectral collocation algorithm for solving time-fractional Tricomi-type equations, *Open Physics*, vol. 14, no. 1, pp. 269–280, 2016.
6. Mathematical model of SIR epidemic system (COVID-19) with fractional derivative: stability and numerical analysis, Alqahtani, R.T. *Advances in Difference Equations*, 2021, 2021(1), 2
7. Stability and performance analysis of bioethanol production with delay and growth inhibition in a continuous bioreactor with recycle, Alqahtani, R.T., Bhowmik, S.K., Ajbar, A., Boumaza, M. *Processes*, 2021, 9(3), pp. 1–18, 461
8. Bifurcation analysis of a SEIR epidemic system with governmental action and individual reaction, Ajbar, A., Alqahtani, R.T. *Advances in Difference Equations*, 2020, 2020(1), 541