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Personal Information

Name Badradeen Abaker Abdalrahman Adam.

Date of Birth 11/6/1983.

Place of Birth Sudan - Elgadarif.

Nationality Sudanese.

Marital Status Married with three daughters (Aisha, Doha, and Amal).

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Education

2012 - 2016 **Ph. D in Applied Mathematics**, Northwest Normal University, Faculty of Mathematical & Statistical, P R of China.

Title of PhD thesis '**Nonlinear Instability and Asymptotic Stability of Volume-Filling Chomotaxis Models**'

2009 - 2011 **M Sc in Industrial & Computational Mathematics**, University of Khartoum, Faculty of Mathematical Science, Sudan.

Title of M Sc thesis '**Shooting Method in Solving Boundary Value Problem**'

2001 - 2006 **Bachelor of Science & Education (Honors) in Mathematics & Physics.** University of Khartoum, Faculty of Education, Sudan.

1998 - 2001 Deim Bakr Secondary School, Elgadarif, Sudan

1989 - 1998 A baker Jebreel Basic School, Elgadarif, Sudan.

Research Interests

My research interests are: Partial Differential Equations (Analysis), Keller-Segel

Chemotaxis model, Turing Patterns, Mutualistic diffusive model, Malaria model transmission, and Fast Fourier Transform Method or Fast Pade Transform.

Work Experience

Mar 2022-Present **Assistant Professor**, Department of Mathematics, Faculty of Education, University of Khartoum, Sudan.

Dec 2020 – Feb 2022 **Head Department of Continuing Education**, Faculty of Technological & Developmental Studies, University of Khartoum, Sudan.

Dec 2019- Dec 2020 **Assistant Professor and Secretary of the Academic Office**, Faculty of Education, University of Khartoum, Sudan.

2017 - Nov 2019 **Postdoctoral in Applied Mathematics**, Yangzhou University, Faculty of Mathematical Science, P R China.

Title of postdoctoral report ‘**Study on a Mutualistic Model in heterogeneous and periodic evolving Environment** ’

2016 - Sep 2017 **Assistant Professor**, Department of Mathematics, Faculty of Education, University of Khartoum, Sudan.

2012- June 2016 **Lecturer**, Department of Mathematics, Faculty of Education, University of Khartoum, Sudan.

2011-May 2012 **Part- Time Teaching Assistant**, Department of Mathematical Engineering, Faculty of Engineering, University of Khartoum,

University of Khartoum, Sudan.

2011- Au 2012 **Part – Time Teaching Assistant**, Faculty of Architecture,

University of Khartoum, Sudan.

2009- Mar 2012 **Teaching Assistant**, Department of Mathematics

Faculty of Education, University of Khartoum, Sudan.

2008-Februry 2009 **Part – Time Teaching Assistant**, Department of Mathematics,
Faculty of Education, University of Khartoum, Sudan.

Teaching Experience

Since 2011, I have taught the following undergraduate courses:

- Calculus I, II.
- Analytical geometry
- PDEs.
- Differential Equations I, II.
- Linear Algebra.
- Complex Analysis.
- Vectors Analysis.
- Computer Programming using Matlap.
- Applied Statistic.

Schools, Workshops and Conferences

November 2020 Expertise France-France Education International’’ Pre-Service Teacher
Training component of EQUIP Programme’’, Khartoum, Sudan.

October 2017 Seminar on Nonlinear Partial Differential Equations for Young
Scholars, Nanjing University of Finance & Economics, Nanjing,
China.

February 2017 AIMS-IWR Summer School “Mathematical Modelling and Scientific
Computing” AIMS Capetown, South Africa.

- June 2014 International Conference on Nonlinear and Multiscale Partial Differential Equations, Shanghai Jiao Tong University, Shanghai, China (attendance).
- September 2013 International Conference on Nonlinear and Multiscale Partial Differential Equations -Theories and Applications, Fudan University, Shanghai , China (attendance).
- Feb 2012 The third conference for postgraduate studies and scientific research, University of Khartoum, Sudan (attendance).

Scholarships, Grants and Prizes

- 2004 -2005 Academic excellence prize Mathematics Science, Faculty of Education, Khartoum University.

Computer skills

Languages Python.

Packages MATLAB.

Tools Microsoft Office™ , Latex.

Languages

Arabic **Fluent**

English **Very good command**

Chinese **HSK Level 4**

Publications

1. **Adam, Badrdeen**, Tarboush, Abdelrazig K; Lin, Zhigui; Asymptotic profile of a mutualistic model on a periodically evolving domain, International Journal of Biomathematics, (2019), doi:[10.1142/S1793524519500785](https://doi.org/10.1142/S1793524519500785) . (**SCI**).
2. Liqiong Pu, **Badrdeen Adam**, Zhigui Lin, Extinction in a nonautonomous competitive system with toxic substance and feedback control, (2019), 1838-1854. (**SCI**).

3. **Adam, Badradeen**; Lin, Zhigui; Tarboush, Abdelrazig K.; Coexistence in a mutualistic model with cross-diffusion in a heterogeneous environment. *Int. J. Biomath.* 11 (2018), no. 6, 1850078, 17 pp. (SCI).
4. Fu, Shengmao; Guangjian Huang; **Adam, Badradeen.** , Instability in a generalized multi-species Keller–Segel chemotaxis model, *Computers & Mathematics with Applications*, 9 (2016), 2280-2288. (SCI).
5. **Adam, Badradeen AA**; A Comparative Study of Successive Approximations Method and He-Laplace Method, *British Journal of Mathematics & Computer Science*, 2 (2015), 129.
6. **Adam, Badradeen AA**; A Comparative Study of Adomain Decomposition Method and He -Laplace Method, *Applied Mathematics*, 21 (2014), 3353.
7. **Adam, Badradeen**; Mohsin HA Hashim; Shooting Method in solving boundary value problem, *International Journal of Research and Reviews in Applied Sciences*, 1 (2014), 1- 8.
8. **Adam, Badradeen**; A comparative study of Adomain decomposition method and the new integral transform “Elzaki transform”, *International Journal of Applied Mathematical Research*, 1 (2014), 8-14.
9. **Adam, Badradeen**; Haiyan Gao; Shengmao Fu; Nonlinear Instability for a Volume-Filling Chemotaxis Model with Bistable Source Term, (Submitted to ZAMP).
10. **Adam, Badradeen**; Lin, Zhigui; A free boundary for mutualistic model with expanding front, prepare.

References

1. Prof. Dr. Zhigui Lin
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2. Prof. Dr. Shengmao Fu
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