

## *Curriculum Vitae*



**Dr. KHUDIJA BIBI**

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### **Postal Address:**

- Department of Mathematics, Faculty of Basic and Applied Sciences, International Islamic University Islamabad.
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### **1. PERSONAL INFORMATION:**

Husband's Name: Khalil Ahmad.  
Domicile: Bahawalpur (Punjab).  
Date of Birth: 11-11-1980.  
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Religion: Islam.

### **2. QUALIFICATION:**

PhD		National University of Sciences and Technology (NUST), Islamabad.
M.Phil. (Mathematics)	2005	Quaid-i-Azam University (QAU), Islamabad.
M.Sc. (Mathematics)	2003	Islamia University, Bahawalpur.
B.Sc.(Math A & B, Stat.)	2001	Islamia University, Bahawalpur.
F.Sc. (Math., Stat.)	1999	B.I.S.E. Bahawalpur.
Metric	1995	B.I.S.E. Bahawalpur.

### Merit Certificate:

- Got 3<sup>rd</sup> position in M.Sc. and obtained a merit certificate.

### Experience

Working as a lecturer at IIUI from 2007.

### **3. TECHNICAL SKILLS:**

- Net, Ms-word, Power point, Excel.
- C/C++ Language and FORTRAN language.
- Scientific Workplace and Latex.
- Maple and Matlab.

### **4. Research Interest:**

- Computational techniques for nonlinear systems.
- Numerical methods for solutions of differential equations.
- Symmetry Analysis for the nonlinear differential equations.

### **5. Research Papers:**

- **Khudija Bibi**, Tooba Feroze, Discrete Symmetry Group Approach for Numerical Solution of the Heat Equation, *Symmetry*, 2020, I.F 2.9.
- **Khudija Bibi**, Particular Solutions of Ordinary Differential Equations Using Discrete Symmetry Groups, *Symmetry*, 2020, I.F 2.9.
- N. A. Mir, **Khudija Bibi**, N. Rafiq, Three-step method for finding multiple roots of nonlinear equation, *Life Sci.* 11 (7) 2014: 387-389.
- **Khudija Bibi**, Tooba Feroze, Discrete Symmetry Transformations of Third Order Ordinary Differential Equations and Applications, *WSEAS Transactions on Mathematics*, 2020.
- **Khudija Bibi**, Khalil Ahmad, "Exact Solutions of Newell-Whitehead-Segel Equations Using Symmetry Transformations", *Journal of Function Spaces*, 2021 I.F 1.7.
- **Khudija Bibi**, Khalil Ahmad. "Exact Solutions of the Two-Dimensional Cattaneo Model Using Lie Symmetry Transformations", *Discrete Dynamics in Nature and Society*, 2021.
- **Khudija Bibi**, Khalil Ahmad, New exact solutions of Date Jimbo Kashiwara Equation Using Lie Symmetry Groups, *Mathematical Problems in Engineering*, 2021.
- Khalil Ahmad, **Khudija Bibi**, Exact Solutions of Burgers' Equation Using Power Index Method, *Discrete Dynamics in Nature and Society*, 2022.
- Khalil Ahmad, **Khudija Bibi**, New Exact Solutions of Landau-Ginzburg-Higgs Equation Using Power Index Method, *Journal of Function Spaces*, accepted, 2022.
- Khalil Ahmad, **Khudija Bibi**, New Function Solutions of Ablowitz-Kaup-Newell-Segur Water Wave Equation via Power Index Method, *Journal of Function Spaces*, 2022.

