# Zain ul Abdeen



The Bradley Department of Electrical & Computer Engineering, Virginia Tech, Blacksburg, USA

**Personal Details** 

E-mail: zabdeen@vt.edu, zabdeen@iese.nust.edu.pk

Contact No. +1 (540) 449-8410

**Research Highlights** 

**Areas of Interest:** Machine Learning, Optimization, Reinforcement Learning, Computational Mathematics, Differential Equations, Numerical analysis, Existence Theory, Integral Equations, Atmospheric Simulation Models



Academic and Professional Experience

**Lecturer** at Institute of Environmental Sciences and Engineering, National University of Sciences and Technology Islamabad Pakistan –

Sep 2019 - July 2021

**Visiting Lecturer** at National University of Sciences and Technology Islamabad Pakistan – Sep 2018 – Aug 2019

Education

The Bradley Department of Electrical & Computer Engineering, Virginia Tech, Blacksburg

Ph.D. Student Aug 2021- Present

National University of Sciences & Technology, Pakistan

Master of Science in Mathematics Sep 2016 – Aug 2018

CGPA 4.00/4.00

National University of Sciences & Technology, Pakistan

Bachelor of Science in Mathematics Sep 2012 – Jul 2016

CGPA 3.52/4.00

**Teaching Experience** 

Calculus and Analytical Geometry

Linear Algebra and Ordinary Differential Equations Probability and Statistics

Numerical Analysis

Complex Variable and Transform

**Journal Publications** 

ul Abdeen, Z. and Rehman, M.u. (2021), "A numerical method based on Haar wavelets for the Hadamard-type fractional differential equations", Engineering Computations, Vol. ahead-of-print No. ahead-of-print.

https://doi.org/10.1108/EC-04-2021-0223

ul Abdeen, Z. and Rehman, M.u. (2019), "A numerical method for solving fractional differential equations", Engineering Computations, Vol. 36 No. 2, pp. 551-568,

https://doi.org/10.1108/EC-07-2018-0302

**Achievements and Extra-Curricular** 

President's Gold Medal for securing GPA of 4.00

Merit scholarship holder for MS and BS

Runner up at university level Cricket championship Best player at institutional

SPORTS GALA

# **Expertise/Skills**

MATLB
PYTHON
Mathematica
MS Word

### References

# Dr. Ming Jin

Assistant Professor, Bradley Department of Electrical and Computer Engineering, Virginia Tech, Blacksburg <a href="mailto:jinming@vt.edu">jinming@vt.edu</a>

# Dr. Mujeeb ur Rehman

Associate Professor, School of Natural Sciences, National University of Sciences and Technology (NUST), Islamabad, Pakistan <a href="mailto:mujeeburrehman345@yahoo.com">mujeeburrehman345@yahoo.com</a>