CURRICULUM VITAE

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PERSONAL INFORMATION

Name: Dheeraj Shukla

Designation - Assistant Professor.

Department of Mathematics**-**R.H.S.P.G. College Jaunpur Uttar Pradesh

DOJ: 26/07/2022

*Mobile***:** +91-8375048430

Email: shukla.dheeraj93@gmail.com

Nationality: Indian

Date of birth: 02/10/1993

Permanent address: Vill- Gorsari, Post-Ahada, Dist.: Sultanpur
Uttar Pradesh, India, 228132.

*Research Areas***:** Hyperbolic Partial Differential Equations, Conservation Laws, Non-Linear Waves,

PROFESSIONAL OBJECTIVE

To pursue a challenging career and be part of a progressive and well reputed organization that gives scope to enhance my knowledge, skills, and to reach the pinnacle in the research field with sheer determination, dedication and hard work. I particularly enjoy collaborating with scientists from different disciplines to develop new skills and solve new challenges.

RESEARCH INTEREST

My research area is study of Non-linear wave propagation problems in different gaseous media, Conservation Laws for system of hyperbolic partial differential equations.

LIST OF PUBLICATION*

1. International Journal (SCI/SCIE Index): **02** (Average impact factor:**2.847**)
2. International/National Conferences/Workshop: **NIL**

ACADEMIC QUALIFICATION

Ph.D. in Mathematical Sciences (**Pursuing)**,

Department of Mathematical Sciences, Indian Institute of Technology(Banaras Hindu University),

Varanasi-221005, India

Title of PhD thesis: "Some Aspect of Non-Linear wave Propagation Problems in Gaseous Media"

Supervisor: Prof. L. P. Singh

Course work: Qualified (as suggested by Doctoral ScrutinyCommittee)

CGPA: 9.00

Post-Graduation (M.Sc.) in Mathematics (2013-2015),Dr. R.M.L. Awadh University,

Ayodhya, U.P. India.

Graduation (B.Sc.) in Mathematics (2010-2013),G.S.P.G. College, Sultanpur, U.P. India

Achievement's (National Level Exams Qualified)

CSIR-JRF qualified in Mathematical Sciences held on June 2017 with AIR-70.

GATE-2018 qualified in MA-Mathematics held on January 2018 with AIR-268.

GATE-2022 qualified in MA-Mathematics held on January 2022 with AIR-350.

Awards/Fellowships

CSIR-SRF – From January 2021 to July 2022

CSIR-JRF – From January 2019 to December 2020

Other Achievement's:

- Selected as an Assistant Professor through UPHESC.

- Selected as an Assistant Professor in GDC through UPPSC.

- Selected as a Lecturer in Polytechnic College through UPPSC.

Computational Skill

Software's: Mathematica, Latex, C, C++, Scilab.

Coding- MATLAB, C++, Pythons.

Courses Taught @During PhD

- Linear Algebra
- Real Analysis
- Numerical Analysis

Courses Taught @R.H.S.P.G.College

- Differential Calculus
- Integral Calculus
- Mathematical Methods
- Real Analysis
- Complex Analysis

<u>Research Papers:</u>

1. Delta shock wave in the Riemann solution for the compressible Euler equations with logarithmic equation of state.

2. The solution of Riemann problem for compressible fluid with constant external force.

3. An analysis of evolution of planar and non-planar shock wave in van der Waals dusty gas. (communicated).

REFERENCES

1. Prof. L. P. Singh (Ph.D. Supervisor),

   Department of Mathematical Sciences, Indian Institute ofTechnology (Banaras Hindu

   University), Varanasi, India Email: lpsingh.apm@iitbhu.ac.in

   Contact No.: +91-94518951