

DEEPAK BHORIYA

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EDUCATION

<ul style="list-style-type: none">PH.D. IN NUMERICAL HYPERBOLIC CONSERVATION LAWS IIT-Delhi, New Delhi<ul style="list-style-type: none">Thesis Title: —	9.0 C.G.P.A.	2017-20**
<ul style="list-style-type: none">M.Sc. MATHEMATICS IIT-Bombay, Mumbai	7.75 C.P.I.	2015-2017
<ul style="list-style-type: none">B.Sc. MATHEMATICS Sri Venkateswara College (DU), New Delhi	94.89 %	2012-2015
<ul style="list-style-type: none">INTERMEDIATE/+2 SDR Public School (CBSE), New Delhi	86.50 %	2011-2012
<ul style="list-style-type: none">MATRICULATION Adarsh Sec. School (CBSE), New Delhi	9.0 C.G.P.A.	2009-2010

SCHOLASTIC ACHIEVEMENTS

- Secured **1st Rank (AIR)** in Ph.D. Entrance Exam. + Interview, South Asian University, New Delhi.
- Secured **1st Rank (AIR)** (Among 3435 students) in **M.Sc. Maths. Entrance** Exam. (Delhi University), 2015
- Secured a job (as a **STA-B-Mathematics**) in Defence Research & Development Organisation (**DRDO**).
- Secured **AIR 39** in NET-JRF (UGC-CSIR) – 2016 (Dec).
- Secured **AIR 59** in NET (UGC-CSIR) – 2015 (Dec).
- Qualified **Gate 2017** with **AIR 280**.
- Secured **AIR 73** in **IIT-JAM Maths.** and **AIR 155** in **IIT-JAM-Stats.** 2015 (Among 7765 & 1721 Students).
- Secured **Merit rank 16 (DU)** in B.Sc. (H) Mathematics degree.
- Secured **2nd position (DU)** in B.Sc (H) Mathematics 2nd year result.
- Awarded **CBSE CSSS Scholarship** 2012-2017. [Rs.10,000 in B.Sc.; Rs.20,000 in M.Sc. (Yearly)].

PUBLICATIONS

- Bhoriya, D., Kumar, H., Entropy-stable schemes for relativistic hydrodynamics equations, Z. Angew. Math. Phys. (ZAMP) 71, 29 (2020). <https://doi.org/10.1007/s00033-020-1250-8>
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TEACHING ASSISTANTSHIP

- Teaching assistant for courses Calculus (twice) and Linear Algebra for B-Tech. 1st year.
- Real Analysis for M.Sc. 1st year.

RESEARCH VISITS

- **UNIVERSITY OF NOTRE DAME, USA** 2nd August – 2nd December, 2019
 - Collaborative work with [Prof. Dinshaw S. Balsara](#) for a duration of 4 months.
 - Worked on "Multidimensional HLLI Generalized Riemann Problem Solver for Conservation Laws – The Two-Dimensional Case for Structured Meshes".
- **TIFR CENTRE FOR APPLICABLE MATHEMATICS, BANGALORE, INDIA** 2nd July – 9th July, 2018
 - Discussion with [Prof. Praveen Chandrashekar](#), [Prof. Dinshaw S. Balsara](#), and [Prof. Harish Kumar](#) for a duration of 7 days.
 - Worked on "Various open research problems in Hyperbolic conservation laws and Astro-physics".

PROGRAMS/INTERNSHIPS

- **AIS DIFFERENTIAL-EQUATIONS (2018),** 28-days June – July, 2018
University of Hyderabad, Hyderabad.
- **COMPUTATIONAL SOLUTION OF HYPERBOLIC PDEs FOR SCIENTISTS, ENGINEERS, AND MATHEMATICIANS,** 12-days December, 2017
IIT-Delhi, New Delhi.
- **SPIM (SUMMER PROGRAMME IN MATHEMATICS),** 28-days June – July, 2016
Harish-Chandra Research Institute (HRI), Allahabad.
- **MTTS (MATHEMATICS TRAINING AND TALENT SEARCH),** 28-days June – July, 2014
IIT-Guwahati, Assam.

TECHNICAL SKILLS

SCIENTIFIC PROGRAMMING LANGUAGES: Fortran | C | C++ | Python | Matlab

PARALLEL COMPUTING LIBRARIES: PETSc | OpenMP

LIBRARIES & GRAPHICAL FRAMEWORKS : Gnuplot | VisIt | Matplotlib | Numpy | Pandas | Scikit-learn

WEB DESIGNING: Basic HTML