Dr. Rohit Gupta

Curriculum Vitae

Physics Department, KNGPG College
Gyanpur, Bhadohi-221304
Uttar Pradesh, India
(+91)8427573814
rohitg876@gmail.com

Personal Details

Date of Birth **December 6, 1991**, *City of Birth: Agra*, Country of Birth: India.

Citizenship **Indian**, *Country of Residence: India*.

Gender **Male**.

Marital Status **Single**.

e-mail id **ph15049@iisermohali.ac.in, rohitg876@gmail.com**.

Employment Details

July 2024-present **Assistant Professor**, *Kashi Naresh Government PG College, Gyanpur*.
Directorate of Higher Education, Government of Uttar Pradesh

Nov 2021-June 2024 **Assistant Professor**, *SMPGGDC, Ballia*.
Directorate of Higher Education, Government of Uttar Pradesh

Education

June 2022 **PhD in Physics**, *Indian Institute of Science Education and Research, Mohali*.

July 2015 **M.Sc. in Physics**, *Indian Institute of Technology, Indore*.
CGPA: 8.24 out of 10

June 2013 **B.Sc.Physical Sciences**, *Hindu College, University of Delhi*.
Percentage: 78.4%

2010 **All India Senior School Certificate Examination (Class 12)**, *C.B.S.E.*.
Percentage: 84.67%

2008 **All India Secondary School Examination (Class 10)**, *C.B.S.E.*.
Percentage: 84.6%

Projects

August 2014-May 2015 **M.Sc. Dissertation**, *Indian Institute of Technology (IIT) Indore*.
Phenomenology of Dark Matter based on Inert Higgs Doublet Model under the supervision of Prof. Subhendu Rakshit

May 2014 **Summer Project**, *Inter University Centre for Astronomy and Astrophysics(IUCAA)*.
Study of evolution of Universe for different cosmological model and Standard Model of Cosmology under supervision of Prof. Tarun Souradeep.

National level exam

2015, 2018 **GATE Physics**, *(Indian Institute of Technology- Graduate Aptitude Test in Engineering)*.
All India Rank-105 Percentile-98.6 (2015), All India Rank-99 Percentile-99.3 (2018)

2015 **JEST**, *(Joint Entrance Screening Test)*.
All India Rank-310 Percentile-93.27

2015 **CSIR-JRF**, *(Council of Scientific and Industrial Research- Junior Research Fellow exam)*.
All India Rank-130

2013 **IIT-JAM**, *(Indian Institute of Technology -Joint Admission Test for M.Sc.)*.
All India Rank-227

Skill sets

Publishing Tools: LaTeX, MS-Office

Programming language: C/C++, Python

Tools: ROOT , Mathematica, Octave

Schools and Workshops

Nov 2020-Feb 2021 **HPC Shiksha**, *NSM & CDAC*, Online mode.
Basics of High Performance Computing (including modules on OpenMP, MPI and CUDA)

August 2020 **HCPSS 2020**, *Fermilab, Chicago*, Online mode.
Fermilab-CERN Hadron Collider Physics Summer School

July 2020 **JETSCAPE 2020**, *University of Tennessee, Knoxville*, Online mode.
JETSCAPE online summer school 2020

May 2014 **ISSAA**, *IUCAA, Pune*.
Introductory Summer School on Astronomy and Astrophysics

Presentations

Jan 2021 **Poster presentation**, *Initial Stages*, Weizmann Institute of Science, Israel, (Online mode).
A comparison of thermodynamical properties in high multiplicity pp and heavy ion collision

Dec 2020 **Oral Presentation**, *DAE-BRNS HEP Symposium*, NISER, India, (Online mode).
A unified formalism to study soft as well as hard part of the transverse momentum spectra

Aug 2020 **Poster Presentation/Flash Talk**, *ICHEP*, Prague, Czech Republic, (Online mode).
A generalized approach to study low as well as the high pT regime of transverse momentum spectra

Aug 2020 **Poster Presentation**, *SSI 2020*, Stanford University, U.S.A, (Online mode).
A generalized approach to study low as well as the high pT regime of transverse momentum spectra

Feb 29 2020 **Oral Presentation**, *Scholar Day*, IISER Mohali, India.
Generalization of Non-extensivity in ultrarelativistic collision

Dec 13 2017 **Oral Presentation**, *Scholar Day*, IISER Mohali, India.
Constraing Parton Distribution Function using W charge asymmetry data

May 31 2014 **Poster presentation**, *IUCAA, Pune, India*.
Evolution of Universe for different cosmological model

Online Courses

April 2020 **Neural Networks and Deep Learning**, *deeplearning.ai*, Coursera.

April 2020 **Structuring Machine Learning Projects**, *deeplearning.ai*, Coursera.

April 2020 **Understanding Financial Markets**, *University of Geneva*, Coursera.

January 2020 **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization**, *deeplearning.ai*, Coursera.

October 2019 **Machine Learning**, *Stanford University*, Coursera.

Sept 2019 **Data Science Course**, *365 Careers*, Udemy.

Publication

Shubhangi Jain, Rohit Gupta & Satyajit Jena, *Study of isothermal compressibility and speed of sound in matter formed in heavy-ion collision using unified formalism*, Universe 9 (2023) 4, 170.

Rohit Gupta, Anjaly Menon, Shubhangi Jain & Satyajit Jena, *The Theoretical Description of the Transverse Momentum Spectra: A Unified Model*, Universe 9 (2023) 2, 111.

Rohit Gupta & Satyajit Jena, *Model comparison of the transverse momentum spectra of charged hadrons produced in PbPb collision at* $\sqrt{s_{NN}} = 5.02$ *TeV*, Adv.High Energy Phys. 2022 (2022) 5482034.

Rohit Gupta, Aman Singh Katariya & Satyajit Jena, *A unified formalism to study the pseudorapidity spectra in heavy-ion collision*, Eur.Phys.J.A 57 (2021) 7, 224.

Satyajit Jena & Rohit Gupta, *A unified formalism to study transverse momentum spectra in heavy-ion collision*, Phys.Lett.B 807 (2020) 135551.

Referee

Dr. Satyajit Jena *(Ph.D. Thesis Supervisor)*

Associate Professor, *Department of Physics*, IISER, Mohali.

1F5-AB2, *IISER, Mohali*, India.

Contact:, *(+91)7087546027*.

Email id:, *sjena@iisermohali.ac.in*.