

Himanshu Bora

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[ORCID](#) • [Vidwan](#) • [Google Scholar](#) • [ArXiv](#)

Personal Information

Date of birth : December 21, 1996

Citizenship : Indian

Languages : English (*Full Professional Proficiency*) • Assamese (*Native*)

Education

2024 – present	Ph.D. Department of Physics Bhattadev University – Bajali, Assam, India Title: <i>T.B.D.</i> Guide: Dr. Debajyoti Dutta
2015 – 2020	Integrated M.Sc. in Physics Department of Physics Dibrugarh University – Dibrugarh, Assam, India Specialization: High Energy Physics
2012 – 2015	HSSLC (12th Standard) Stream: Science Board: Assam Higher Secondary Education Council (AHSEC) School: Sarupathar H.S. School – Sarupathar, Assam, India
2012	HSLC (10th Standard) Board: Board of Secondary Education, Assam (SEBA) School: Dayanand Vidya Niketan – Sarupathar, Assam, India

Professional Expereince

Sep 2022 – present	Assistant Professor Department of Physics Kamrup College – Chamata, Assam, India
Nov 2021 – Apr 2022	Lecturer (<i>contractual</i>) Department of Physics Dibrugarh Hanumanbax Surajmall Kanoi College – Dibrugarh, Assam, India

Courses Taught (*selected*)

Course: Course Name

Description

Research Interests

Neutrino Oscillations, Beyond Standard Model Physics

Research Experience

- Oct 2020
– Jul 2021
Dibrugarh University – Dibrugarh, Assam, India
Topic: Geometrothermodynamics of Some Black Hole Systems
Guide: Dr. Prabwal Jyoti Phukon, Dibrugarh University, Dibrugarh, India
- Jun 2017
– Aug 2017
Bharathiar University – Coimbatore, Tamil Nadu, India (under FAST-SF program)
Title: A Transformation Method for Construction of Exactly Solvable Potentials
Guide: Prof. S. Saravanan, Bharathiar University, Coimbatore, India

Schools, Workshops and Conferences Attended

- Dec 9 – Dec 13
2024
GIAN course on *Standard Model Effective Field Theories and Applications to Higgs, Neutrinos and Dark Matter* by Department of Physics and Centre of Educational Technology, Indian Institute of Technology Guwahati
- Jan 6 – Jan 10
2024
Pedagogic Workshop on Astronomy, Astrophysics and Cosmology: A Faculty Enrichment Programme by Department of Physics, Gauhati University and Inter University Center for Astronomy and Astrophysics (IUCAA-TLC and IUCAA-ACE)
- Dec 12 - Dec 22
2023
Radio Astronomy Winter School-2023 by Inter University Center for Astronomy and Astrophysics (IUCAA) and National Center for Radio Astrophysics (NCRA-TIFR) (*participated as mentor to student participants*)
- Jan 6 – Mar 4
2023
Winter School on Deep Learning: From Perceptrons to Diffusion Models by Electronics and Communication Sciences Unit, Indian Statistical Institute Kolkata (online mode)
- Jul 25 – Jul 29
2022
Online Workshop on Artificial Intelligence and High Performance Computing by National Institute of Technology Mizoram & Indian Institute of Technology Kharagpur
- May 26 -May 30
2022
Workshop on Space and Atmospheric Sciences' Research Tools by Department of Physics, Dibrugarh University
- Sep 20 – Sep 23
2021
Online Workshop on High Performance Computing for Astrophysics and Astronomy by Square Kilometer Array- India Consort. & Indian Institute of Technology Kharagpur

May 10 - Jun 11 2021	<i>Introductory Summer School in Astronomy and Astrophysics</i> by Inter University Center for Astronomy and Astrophysics (IUCAA) (<i>online mode</i>)
Aug 17 - Aug 31 2021	<i>Workshop on Particle Physics, 2020</i> by Department of Physics, Assam Don Bosco University (<i>online mode</i>)
Jan 7 - Jan 11 2019	<i>Workshop on Celestial Mechanics and Dynamical Astronomy</i> by Department of Mathematics, Central University of Rajasthan
Oct 7 - Oct 13 2018	<i>Workshop on Gravitation and Gravitational Waves</i> by Department of Physics, Assam University, Silchar
Feb 22 - Mar 3 2017	<i>ARIES Training School in Observational Astronomy-2017</i> by Aryabhata Research Institute of Observational Sciences, Nainital
Jun 21 - Jul 12 2016	<i>CCSU Astronomy and Astrophysics Summer School-2016</i> by Department of Physics, Cotton College State University
Nov 2 - Nov 5 2015	<i>National Conference on Current Issues in Cosmology, Astrophysics and High Energy Physics</i> by Dibrugarh University

Honors, Awards and Scholarships

Jun 2021	Awarded INSPIRE Fellowship 2020 provisionally for doctoral research by Department of Science and Technology, Government of India (<i>provisional award not availed</i>)
May 2021	Awarded Junior Research Fellowship by Council of Scientific and Industrial Research, India through Joint CSIR-UGC NET Examination, June 2020 (held in November 2020)
May 2021	Obtained eligibility for Lectureship / Assistant Professor in Physical Sciences through Joint CSIR-UGC NET Examination, June 2020 (held in November 2020), <i>All India Rank-149 (99.51 percentile)</i>
Feb 2020	Qualified Graduate Aptitude Test in Engineering-2020 (GATE-2020) in Physics organised jointly by IISc/IITs (held in February 2020)
2017	Awarded Focus Area Science Technology Summer Fellowship (FAST-SF) jointly by Indian Academy of Sciences, Bengaluru; Indian National Science Academy, New Delhi and The National Academy of Sciences, Prayagraj
2015-2020 (duration)	Awarded INSPIRE-SHE Scholarship by Department of Science and Technology, Government of India (<i>awarded to top 1% students in India in 10+2, pursuing basic sciences</i>)

2012 Awarded **Anundoram Borooah Award-2012** with distinction by Government of Assam (*awarded to First Division holders in HSLC Examination, 2012 conducted by SEBA, Assam*)

Professional Memberships

Feb 2023 – Assam Physical Society (*lifetime membership*)

Technical Skills

Languages

Proficient in: C, Python

Familiar with: C++, Fortran

Softwares

Operating Systems: Linux

Document Processing: \LaTeX , LibreOffice

Others: Wolfram Mathematica, HTML, CSS

Additional Qualifications

B.A. in Fine Arts from Sarbabharatiya Sangeet-O-Sanskriti Parishad, Kolkata, 2014
(*part time and distance mode*)

Outreach Activities, Interests and Public Engagemant

Outreach:

Convenor of “[ituxitu](#)”, an online [talk series](#) that connects UG/PG students of Assam to researchers in Physics and Astronomy

Quizzing:

Founder and Joint Co-ordinator of Dibrugarh University Debate and Quiz Forum,
Represented Dibrugarh University in 50+ quiz competitions at inter-university and state level

References

to be produced on demand

Declaration

I hereby declare that all the information compiled and stated here are true, correct and complete to the best of my knowledge and belief.

Date: 10 January, 2025

Place: Nalbari, Assam, India

Himanshu Bora