

Himanshu Bora

Assistant Professor • Department of Physics
Kamrup College, Chamata • Nalbari, Assam, India

✉ hb@kamrupcollege.ac.in ☎ +91 84866 09233 🌐 hvbora.github.io

[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*)

Mathematical Physics I, Mathematical Physics II, Mathematical Physics III,
Classical Mechanics, Quantum Mechanics and Applications,
Basic Programming in C, Computational Physics Skill

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

Jan 2025 – Physics Academy of North East (*lifetime membership*)

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

Technical Skills

Languages

Proficient in C, Python

Familiar with C++, Fortran

Others

Operating System: Linux

Document Processing: \LaTeX , LibreOffice

Web Development: HTML, CSS

Others: Wolfram Mathematica

Additional Qualifications

2014 B.A. in Fine Arts from Sarbabharatiya Sangeet-O-Sanskriti Parishad, Kolkata

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

Dr. Debajyoti Dutta

Assistant Professor

Department of Physics, Bhattadev University

✉ phy.debijyoti@bhattadevuniversity.ac.in

Dr. Prabwal Jyoti Phukon
Associate Professor
Department of Physics, Dibrugarh University
✉ prabwal@dibru.ac.in

Declaration

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

Date: 6 February, 2025

Place: Nalbari, Assam, India

Himanshu Bora