

Himanshu Bora

📍 Kamrup College, Chamata • Nalbari, Assam, India

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Personal Information

Date of birth : December 21, 1996

Citizenship : Indian

Languages : English (*medium of instruction during school and university education*)
Assamese (*Native*) • Hindi

Education

2024 – **Ph.D.**

Department of Physics

Bhattadev University – Bajali, Assam

Topic: *T.B.D.*

Guide: [Dr. Debajyoti Dutta](#)

2015 – 2020

Integrated M.Sc. in Physics

Department of Physics

Dibrugarh University – Dibrugarh, Assam

Specialization: High Energy Physics

CGPA: 8.27/10.00 (87.7%)

6th Semester Project: A Primitive Study on Information Geometry

2012 – 2015

HSSLC (12th Standard) Stream: Science

Board: Assam Higher Secondary Education Council (AHSEC)

School: Sarupathar H.S. School – Sarupathar, Assam

Percentage: 90.40%

2012

HSLC (10th Standard)

Board: Board of Secondary Education, Assam (SEBA)

School: Dayanand Vidya Niketan – Sarupathar, Assam, India

Percentage: 90.00%

Professional Expereince

September 2022

– present

Assistant Professor

Department of Physics

Kamrup College – Chamata, Assam, India

Courses Taught: Mathematical Physics, Mechanics, Electrodynamics, Programming in C, Numerical Methods and Computational Physics

November 2021 **Lecturer** (*contractual*)
–April 2022 Department of Physics
Dibrugarh Hanumanbax Surajmall Kanoi College – Dibrugarh, Assam, India
Courses Taught: Mathematical Physics, Computational Physics, Quantum Mechanics

Research Interests

Neutrino Oscillation, Beyond Standard Model Physics, Dark Matter

Research Experience

October 2020 Dibrugarh University – Dibrugarh, India
–July 2021 **Topic:** Geometrothermodynamics of Some Black Hole Systems
Guide: Dr. Prabwal Jyoti Phukon, Dibrugarh University, Dibrugarh, India

June 2017 Bharathiar University – Coimbatore, India (under FAST-SF program)
–August 2017 **Title:** A Transformation Method for Construction of Exactly Solvable Potentials
Guide: Prof. S. Saravanan, Bharathiar University, Coimbatore, India

Honors, Awards and Scholarships

June 2021 Awarded **INSPIRE Fellowship 2020** provisionally for doctoral research by Department of Science and Technology, Government of India (*provisional award not availed*)

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), *All India Rank-149 (99.51 percentile)*

February 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 Awarded **INSPIRE-SHE Scholarship** by Department of Science and Technology, Government of India (*awarded to top 1% students in India in 10+2, pursuing basic sciences*)

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*)

Schools, Workshops and Conferences Attended

January 6 – 10, 2024	<i>Pedagogic Workshop on Astronomy, Astrophysics and Cosmology: A Faculty Enrichment Programme</i> by Department of Physics, Gauhati University, Assam, India and Inter University Center for Astronomy and Astrophysics (IUCAA-TLC and IUCAA-ACE), Pune, India
December 12 – 22, 2023	<i>Radio Astronomy Winter School-2023</i> by Inter University Center for Astronomy and Astrophysics (IUCAA), Pune, India and National Center for Radio Astrophysics (NCRA-TIFR), Pune, India (<i>participated as mentor to student participants</i>)
January 6 – March 4, 2023	<i>Winter School on Deep Learning: From Perceptrons to Diffusion Models</i> by Electronics and Communication Sciences Unit, Indian Statistical Institute (online mode)
July 25 – 29, 2022	<i>Online Workshop on Artificial Intelligence and High Performance Computing</i> by National Institute of Technology, Mizoram and Indian Institute of Technology, Kharagpur
May 26 – 30, 2022	<i>Workshop on Space and Atmospheric Sciences' Research Tools</i> by Department of Physics, Dibrugarh University
September 20 –23, 2021	<i>Online Workshop on High Performance Computing for Astrophysics and Astronomy</i> by Square Kilometer Array-India Consortium and Indian Institute of Technology, Kharagpur
May 10 – June 11, 2021	<i>Introductory Summer School in Astronomy and Astrophysics</i> by Inter University Center for Astronomy and Astrophysics (IUCAA), Pune, India (<i>online mode</i>)
August 17 –31, 2021	<i>Workshop on Particle Physics, 2020</i> by Assam Don Bosco University, Guwahati, Assam, India (<i>online mode</i>)
January 7 –11, 2019	<i>Workshop on Celestial Mechanics and Dynamical Astronomy</i> by Central University of Rajasthan, Ajmer, Rajasthan, India
October 7 –13, 2018	<i>Workshop on Gravitation and Gravitational Waves</i> by Assam University, Silchar, Assam, India
February 22 – March 3, 2017	<i>ARIES Training School in Observational Astronomy-2017</i> by Aryabhata Research Institute of Observational Sciences, Nainital, India
November 2 – 4, 2016	<i>National Workshop on Gravitational Wave Astronomy</i> by Dibrugarh University, Dibrugarh, Assam, India

June 21 – July 12, 2016	<i>CCSU Astronomy and Astrophysics Summer School-2016</i> by Cotton College State University, Guwahati, Assam, India
November 2 – 5, 2015	<i>National Conference on Current Issues in Cosmology, Astrophysics and High Energy Physics</i> by Dibrugarh University, Dibrugarh, Assam, India

Professional Memberships

February 2023	Assam Physical Society (<i>lifetime membership</i>)
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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 and Interests

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: 26 August, 2024

Place: Nalbari, Assam, India

Himanshu Bora