

S Atul Bhat

Research Scholar, MCNS, MAHE

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Education

Master of Science (M.Sc.) in Physics

Centre for Post Graduate Studies, Jain University, Bengaluru

Aug 2013 – Jun 2015

- GPA: 7.83/10
- Thesis : Quiescent Prominence Dynamics

Bachelor of Science (B.Sc.)

Canara College, Mangalore. [Affil: Mangalore University]

Aug 2009 – Jun 2012

- Subjects: Physics, Mathematics, Computer Sci.
- GPA: 7.06/10

Experience

Research Scholar - Dr. T.M.A Pai Fellowship

Manipal Centre for Natural Sciences, [Affil: MAHE, Manipal]

Manipal, IN
Mar 2024 – present

- Ph.D. Research - Solar Physics. Supervisor: Dr. Sreejith Padinhatteeri.
- Working on Evolution of small-scale magnetic features around Sunspots.

Assistant Professor - Department of Physics

Poornaprajna College [Affil.: Mangalore University]

Udupi, IN
Jun 2019 – Feb 2024

- Teaching Responsibilities: Theory & Practical Classes in Physics for B.Sc. program prescribed by Mangalore Univ.
- Co-ordinator of Poornaprajna Amateur Astronomers Club (PAAC).
- Astronomy Popularization and Outreach.
- Science Popularization in association with Pilikula Regional Science Center.

Assistant Professor - Department of Physics

Govinda Dasa College [Affil.: Mangalore University]

Surathkal, IN
Dec 2016 – May 2019

- Teaching Responsibilities : Theory & Practical Classes in Physics for Bachelor of Science Course prescribed by Mangalore University.
- Co-ordinator of Physics Forum, Faculty In-charge of Youth Red Cross, Rangers & Rovers and Assistant Faculty In-charge of National Service Scheme
- Mentored Atal Tinkering Lab at Vidyadayinee English Medium School (Sister Institution)
- Administrator of Website Committee.

Freelance Web Developer

India

Jun 2013 – Feb 2024

- **Poornaprajna Institutions** - Web Development, Webmaster and SEO management for Poornaprajna Institutions + Server and Google Workspace Administration for all Poornaprajna Institutions.
- **The Minds' Corporation** - Co-Founder and Website Development Head building UI/UX, web applications, ERP and more... for multiple clients.
- **Omnimonk Solutions** - UI/UX design for web applications and websites using PHP, MySQL, CSS and JavaScript through Bootstrap frameworks.
- **Nandana Organics** - Development of Nandana Organics website and applications of its subsidiaries.
- **Call For Safety & Quality Solutions** - UI/UX development of website and ERP for training wing.

Awards and Recognition

- **GREGOR - 1.5m Solar Telescope** observation time as PI Nov 2024
Principal Investigator (PI) : Atul Bhat 5 days
Co-PI : Dr. Sreejith P., MCNS & Dr. J.M. Borrero, KIS
"Photosphere-Chromosphere coupling of small-scale magnetic features near Sunspots"
Instruments used : GREGOR InfraRed Spectrograph
- **Gold Medal - Physics** Dec 2015
Gold Medal in M.Sc. Physics [1st Rank] at Jain University 5th Annual Convocation, Bengaluru

Professional Memberships

- **Astronomical Society of India** - Associate Member - A1075 2022
- **Indian Association of Physics Teachers** - Life Member - 13720L8719 2022

Publications

1. Swati Routh, Snehanshu Saha, **Atul Bhat**, M.N. Sundar, "An analytical model of prominence dynamics" *Advances in Space Research*, vol. 61-2, pp. 715-719, [10.1016/j.asr.2017.10.035](https://doi.org/10.1016/j.asr.2017.10.035) , Jan 2018
2. Shahjahan Iqbal, Chaitrika B.M., **Atul Bhat**, Ramu L., "Computational study on the temperature dependence of NQR frequency *Materials Today Proceedings*, [10.1016/j.matpr.2023.03.308](https://doi.org/10.1016/j.matpr.2023.03.308) Mar 2023

Books & Chapters

1. Atul Bhat, Ramu L. *Introduction to Astronomy and Space Exploration* Iterative International Publishers, 2023
2. Suvarnalatha Shenoy, Atul Bhat, "Astronomy", in *Basics of Communication and Astronomy* Assoc. of Physics Teachers of Mangalore University, [Digital], 2021

Presentations

1. Atul Bhat, Sreejith Padinhatteeri, Jayant Joshi, "Observations of unusual dynamics of a Lightbridge", *10th Regional Astronomy Meet, CUSAT, Kochi Jan 2025*
2. Atul Bhat, "Connect with Stars: A Novel Attempt to Teach Constellations to Kids", *5th Shaw-IAU Workshop on Astronomy for Education, Nov 2023*
3. Atul Bhat, A.P. Bhat "Taking astronomy to public – e-initiatives by PAAC", *Public Engagement In Astronomy in the Pandemic Era, Indian Institute of Astrophysics (Online), Sep 2021*
4. Atul Bhat "Investigation on Electric Field due to the charge on Semi-classical model of the Electron", *102nd Indian Science Congress, Univ. of Mumbai, Jan 2015*
5. Swati Routh, Atul Bhat, "Study of Prominence Dynamics", *Coupling and Dynamics of Solar Atmosphere, IUCAA, Pune (International Conference), Nov 2014*

Academic Activities

- **Manipal Astrostatistics School** Manipal, IN, 2024
15th to 21st December 2024
Organized by Manipal Centre for Natural Sciences, MAHE
- **Radio Astronomy Winter School** Pune, IN, 2023
12th to 21st December 2023
Organized by IUCAA & NCRA, Pune
- **Olympiad Exposure Camp in Physics & Astronomy** Online, 2022
21st to 25th January 2022
Organized by Homi Bhabha Centre for Science Education
- **Refresher Course on Experimental Physics** Lakshmanagarh, IN,
2018
23rd Dec 2018 to 7th January 2019
Organized by the Indian Academy of Sciences at Mody University, Rajasthan

Events Organized

Organized several workshops and events as coordinator:

- Online Webinar : *Opportunities in Space Science and Astronomy*, 22nd July 2020, Poornaprajna College, Udupi.
- One-Day Teachers' Training Workshop : : *Annular Solar Eclipse*, 21st December 2019, Poornaprajna College, Udupi
- Two-Day online Workshop : *Astronomy & Cosmology*, 18-19 June 2020, Poornaprajna College, Udupi
- One-Day Teachers' Training Workshop : *Astronomy and Eclipses*, 24th September 2019, Poornaprajna College, Udupi

Outreach + Selected Lectures (Invited)

- Online Talk on 'Indian Astronomy' at the Southern Maine Astronomers' Club, Maine, USA, on 5th May 2022
- Invited as the resource person to talk on 'Astronomy in India' by *Universidad Galileo Instituto de Investigacion de Ciencias de la Tierra y Astronomia (IICTA), Guatemala* on 19th May 2022 as a part of their Conferencia de Astronomia 2022 conference. [online mode]
- *Organized and Conducted over 100 sky-watch / stargazing programs across Karnataka* and streamed events like Planetary Conjunctions and Eclipses for thousands of audiences
- *Invited by various news outlets in Karnataka for live and recorded interviews* and popular level discussion on various astronomy events and topics.
- Eclipse Awareness at 1000 schools in Karnataka
 - Talk - Eclipse Awareness for the 26th December Annular Solar Eclipse at the following Schools:
 1. Delhi Public School, Surathkal on 2nd November 2019
 2. V.K.R Acharya English Medium School, Kundapura on 12th November 2019
 3. Lion's English Medium School, Mundkur on 19th November 2019
 4. Nittur High School, Udupi on 20th November 2019
 5. Chelar Primary School on 25th November 2019
 6. Govt Girls Pre-University College, Udupi on 11th December 2019
 7. Govt Girls High School, Udupi on 11th December 2019
 8. Viveka Pre-University College, Kota on 12th December 2019
 9. Bhairumbe High School, Sirsi, on 16th December 2019
 10. St. Mary's Kannarpady, Udupi on 19th December 2019
 11. And lightning-talks on the same at around 50 other schools across Karnataka.
 - Talk - Eclipse Awareness for the 26th December Annular Solar Eclipse for Teachers at:
 1. Nodal Research Center for High School Teachers, Kundapur on 26th November 2019
 2. Nodal Research Center for High School Teachers, Brahmavara on 12th December 2019
 3. Dr. S J Nagalotimath (SJN) Science Centre, Belagavi on 18th December 2019
- Invited as a resource person to talk at various science centres and organizations:
 - Online Lecture on Solar Eclipse organized by Dr. K.S. Nagalotimath Science Center, Belagavi on 18th June 2020
 - Webinar on 'Khagola' organized by Karnataka Rajya Vignana Parishad on 14th March 2021
 - Webinar on 'Khagola' for teachers training program organized by Dr. K.S. Nagalotimath Science Center, Belagavi on 31st March 2021.
 - Webinar on 'Astronomy Calendar' organized by Dharwad Regional Science Center, Dharwad on 24th May 2021.
 - Invited lecture on 'Equinox' on 20th March 2022, on 'Asteroids' on 30th June 2022, on 'Telescopes and The Sky' (for World Space Week) on 8th October 2022, on 'The Celestial Sphere and Comet C2022/E3' on 30th January 2023 by the Pilikula Regional Science Center, Mangaluru
- Invited as a guest speaker to talk at various Institutions :
 - on 'Extra Terrestrial Life' at St. Philomena College, Puttur on 1st December 2021.
 - 'Black Holes and their Invisible Beauty' at Shri Mahaveera College, Moodbidri, on 20th December 2021.
 - on Introduction to Quantum Mechanics, at Govinda Dasa College, Surathkal, February 22nd 2021

- on 'Rotational Mechanics' by Karnataka Science and Technology Academy (19th February 2022 and 8th July 2022.
- on 'Celestial Sphere' at SJB Institute of Technology on 24th February 2022. [Offline Program - Speaker Streaming]
- on 'Astronomy Calendar' for the Global Academy of Technology on 9th October 2021.
- on 'Gravitation' by for Karnataka Science and Technology Academy on 27th December 2022 and 'Motion in One Dimension' on 18th January 2023.

Technologies

Languages: C, C++, SQL, PHP, Javascript, Python (Numpy, Scipy, Sunpy)

Applications: \LaTeX , Origin, Mathematica, SAO DS9, MS Office, Adobe Photoshop, Adobe Audition, Open Broadcasting Software

Operating System: Linux, Windows

Personal Info

Languages: English (TOEFL iBT : 109/120, 2016; British Council EnglishScore: C1 - *Advanced*) , Hindi, Kannada, Konkani (Native)

Soft Skills: Good Communication and Oratory Skills

Other Interests: High-Altitude Trekking, Photography, UI/UX Design.

Date and Place of Birth: 25th July 1991, Mangalore

Nationality : Indian

Matiral Status: Married

Declaration

I hereby declare that the information provided above are true to the best of my knowledge.

Date: July 16, 2025

Place: Udupi

Atul Bhat

References

1. **Dr. Sreejith Padinhatteeri**
Assistant Professor, MCNS, Manipal
sreejith.p@manipal.edu +91 8884850018
2. **Dr. Raghavendra A.**
Retd. Principal, Poornaprajna College, Udupi
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