

CURRICULUM VITAE

Dr. O. B. Gurav M.Sc. Ph.D.

Assistant Professor

Department of Physics, Bharati Vidyapeeth (Deemed to be University),
Yashwantrao Mohite College of Arts, Science and Commerce, Pune, 411 038.

<https://scholar.google.com/citations?user=ohHwyY0AAAAJ&hl=en>

Mobile No: +91-8208174251 **E-Mail:** omgurav91@gmail.com



Personal Information:

- **Name** : Dr. Onkar Bharat Gurav
- **Date of Birth** : 21/10/1991
- **Marital Status** : Married
- **Languages Known** : Marathi, Hindi and English
- **E-Mail ID** : omgurav91@gmail.com
- **Current Address** : “Dimbale PG house”, Near Gajanan Maharaj Temple, Paud Road, Erandavane, Pune, 411 038.
- **Permanent Address** : “Ujwalraj”, Desai Plot No. 23, At- Malwadi, Post-Bhilwadi, Tal. - Palus Dist. - Sangli. Pin- 416 303.

Academic Credentials:

- **Ph.D. in Physics, 2019**
Department of Physics, Shivaji University,
Kolhapur- 416 004, (M.S.) India
Specialization: Space Science
- **Title of Ph.D. Thesis:**
“Studies on Ionospheric Irregularities using Nightglow Technique from Kolhapur (16.8°N, 74.2°E, 10.6°N Dip. Lat.)”
Guide Name: Prof. (Dr.) A. K. Sharma
- **M.Sc. in Physics, 2014**
Department of Physics, Shivaji University,
Kolhapur-416004, (M.S.) India
Specialization: Space Science
Title of project completed for the partial fulfillment of M.Sc. degree: “Study of Plasma Blobs using Intensity of OI 630.0 nm Emission over Kolhapur”

- **B.Sc. in Physics, 2012**

Krantisinha Nana Patil College, Walwa

Tal-Walwa, Dist-Sangli, (M.S.) India

Affiliated to Shivaji University, Kolhapur

Specialization: Physics

Academic Record:

Degree	Year	Board/University	Percentage	Class
Ph.D. Physics (Space Science)	2014-19	Shivaji University	Awarded (25 th February, 2019)	
M.Sc. Physics (Space Science)	2013-14	Shivaji University	61.50 %	First Class
B.Sc. (Physics)	2011-12	Shivaji University	75.88 %	Distinction
H.S.C. (PHY, MATHS, CHEM.,	2008-09	Kolhapur Board	64.00 %	First Class
S.S.C. (ALL)	2006-07	Kolhapur Board	71.07%	First Class
MS-CIT	2008-09	Maharashtra State Board	94 %	Distinction
Elementary (Drawing)	2008-09	Maharashtra State Board	-	Grade 'C'

Computer Proficiency:

- Operating systems: Windows XP, Vista, Windows 7/8/8.1/10
- MS-Office: 2003/2007/2010/2013
- Origin 8/8.5/16
- Typing (English) 45 wpm
- MATLAB computing R2009b, R2019b
- Adobe Photoshop CS5, CS6, CC17
- Internet surfing

Awards:

- Award of Research Assistant (RA) of DST-PURSE on 16th December, 2014.
- Award of Junior Research Fellow (JRF) of UGC-BSR Scheme on 31st December, 2015.
- Award of Senior Research Fellow (SRF) of UGC-BSR Scheme on 1st January 2018.

- Award of Research Associate (RA) of DST funded institute IIG on 16th September 2019.
- Award of financial support for 20th Beacon Satellite Symposium 2019, Olsztyn, Poland, on 19-23 August 2019.

Research and Teaching Experience:

- Worked as “**Lecturer in Physics**” at Gopal Krishna Gokhale College, Kolhapur for the academic year, 2014-15.
- Worked as “**Research Assistant (RA)**” at department of Physics, Shivaji University, Kolhapur during 16th December 2014 to 5th June 2015.
- Worked as “**Junior Research Fellow (JRF)**” under UGC BSR Scheme at department of Physics, Shivaji University, Kolhapur during 31st December 2015 to 31st December 2017.
- Worked as “**Senior Research Fellow (SRF)**” in the department of Physics, Shivaji University, Kolhapur from 01st January 2018 to 25th February 2019.
- Worked as “**Research Associate (RA)**” in DST funded government institute, IIG, Navi Mumbai from 16th September 2019 to 26th February 2020.
- Working as “**Assistant Professor**” in Physics at Bharati Vidyapeeth (Deemed to be University), Yashwantrao Mohite College of Arts, Science and Commerce, Pune, 411038 from 26th February 2020 to present.

Extra-Curricular Activities:

- Operated **IRNSS/NavIC receiver of ISRO** and involved in its data collection and analysis of L and S bands.
- Operated Celestron **C5⁺ Cassegrain telescope** and **12” Go-To Dobsonian sky-watch telescope** for night sky observations of celestial bodies.

List of Publications:

1. Onkar B. Gurav, Rupesh N. Ghodpage*, Parashram T. Patil, Sripathi Samireddipalle, Ashok K. Sharma, Alok K. Taori and Dadaso J. Shetti, Occurrence climatology of equatorial plasma bubbles (EPBs) using optical observations over Kolhapur, India during solar cycle-24, **Annals of Geophysics**, 63 (6), 2020, 10.4401/ag-8068. **Impact Factor: 1.78**
2. O. B. Gurav, S. Sripathi*, R. N. Ghodpage, Radio and optical investigations of storm time evolution of post-midnight equatorial plasma bubbles (EPBs) and their drifts over

Indian sector, **Advances in Space Research**, 67 (1), 2021, 87-101, <https://doi.org/10.1016/j.asr.2020.09.021>. **Impact Factor: 1.52**

3. O. B. Gurav, V. L. Narayanan, A. K. Sharma*, R. N. Ghodpage, H. P. Gaikwad, P. T. Patil, Airglow imaging observations of some evolutionary aspects of equatorial plasma bubbles from Indian sector, **Advances in Space Research**, 2019, <https://doi.org/10.1016/j.asr.2019.04.008>. **Impact Factor: 1.52**
4. D. J. Shetti, O. B. Gurav and G. K. Seemla, Occurrence characteristics of equatorial plasma bubbles and total electron content during solar cycle peak 23rd to peak 24th over Bangalore (13.02° N, 77.57° E). **Astrophys Space Sci**, 364, 156 (2019), **Impact Factor: 1.681**
5. O. B. Gurav, A. K. Sharma*, R. N. Ghodpage, D. P. Nade, G. A. Chavan, H. P. Gaikwad and P. T. Patil, Zonal drift velocity of Equatorial Plasma Bubbles during ascending phase of 24th solar cycle using All Sky Imager over Kolhapur, India. **Journal of Geophysical Research: Space Physics**, 123, 2018, <https://doi.org/10.1029/2018JA025810>. **Impact Factor: 2.75**
6. A. K. Sharma, O. B. Gurav*, G. A. Chavan, H. P. Gaikwad, R. N. Ghodpage, P. T. Patil, Variation in occurrence of equatorial plasma bubbles (EPBs) using All Sky Imager from low latitude station Kolhapur (16.8°N, 74.2°E, 10.6°N dip. Lat.), **Advances in Space Research**, 60, 2452–2463, 2017, **Impact Factor: 1.52**
7. A. K. Sharma, O. B. Gurav*, H. P. Gaikwad, G. A. Chavan, D. P. Nade, R. N. Ghodpage, P. T. Patil. Study of Equatorial Plasma Bubbles using All Sky Imager and Scintillation Technique from Kolhapur Station: A Case Study, **Astrophysics and Space Science**, 363:83, 2018, **Impact Factor: 1.88**
8. A. K. Sharma, O. B. Gurav*, Anindya Bose, H. P. Gaikwad, G. A. Chavan, Atanu Santra, S. S. Kamble, R. S. Vhatkar, Potential of IRNSS/NavIC L5 signals for ionospheric studies, **Advances in Space Research**, 2019, 0273-1177, <https://doi.org/10.1016/j.asr.2019.01.029>. **Impact Factor: 1.52**
9. R. N. Ghodpage*, Alok Taori, O. B. Gurav, P. T. Patil, G. P. Naniwadekar, S. Gurubaran, Devendraa Siingh, “Wave signature in the upper mesospheric temperature and their association with the wind fields at low latitude”, **Advances in Space Research**, Accepted, April 2019. **Impact Factor: 1.52**
10. R. N. Ghodpage*, P. T. Patil, O. B. Gurav, S. Gurubaran and A. K. Sharma, Ionospheric response to major storm of 17th March 2015 using multi-instrument data over low

latitude station Kolhapur (16.8°N, 74.2°E, 10.6°N dip. Lat.), **Advances in Space Research**, 62, 624–637, 2018, **Impact Factor: 1.52**

11. H. P. Gaikwad, A. K. Sharma*, O. B. Gurav, G. A. Chavan, D. P. Nade, P. T. Patil, S. S. Nikte, G. P. Naniwadekar, Seasonal, annual, and interannual variability in MLT quasi-two-day waves over the low-latitude region Kolhapur (16.8°N; 74.2°E), **Advances in Space Research**, 0273-1177, 2019, <https://doi.org/10.1016/j.asr.2018.12.029>. **Impact Factor: 1.52**
12. A. K. Sharma, G. A. Chavan*, H. P. Gaikwad, O. B. Gurav, D. P. Nade, S. S. Nikte, R. N. Ghodpage, P. T. Patil, Study of ionospheric irregularities from Kolhapur (16.4°N, 74.2°E), **Journal of Atmospheric and Solar-Terrestrial Physics**, 1–7, 2017, **Impact Factor: 1.75**
13. A. K. Sharma, G. A. Chavan*, O. B. Gurav, H. P. Gaikwad, R. N. Ghodpage, D. P. Nade, Dynamics of ionospheric irregularities in increasing phase of 24th solar cycle at Kolhapur [16.4° N, 74.2° E], **Advances in Space Research**, 60, 2195–2205, 2017, **Impact Factor: 1.52**
14. G. A. Chavan, A. K. Sharma*, O. B. Gurav, H. P. Gaikwad, D. P. Nade, S. S. Nikte, R. N. Ghodpage and P. T. Patil, Dependence of coherence scales of ionospheric scintillation patterns on magnetic activity, **MAPAN-Journal of Metrology Society of India**, 2016, **Impact Factor: 0.6**
15. A. K. Sharma, H. P. Gaikwad*, M. Venkat Ratnam, O. B. Gurav, L. Ramanjaneyulu, G. Chavan, S. Sathishkumar, Diurnal, monthly and seasonal variation of mean winds in the MLT region observed over Kolhapur using MF radar, **Journal of Atmospheric and Solar-Terrestrial Physics**, 169, 91–100, 2018, **Impact Factor: 1.75**
16. D. P. Nade, D. J. Shetti, A. K. Sharma*, A. Taori, G. A. Chavan, P. T. Patil, R. N. Ghodpage, O. B. Gurav, and S. S. Nikte, Geographical analysis of equatorial plasma bubbles by GPS and nightglow measurements, **Advances in Space Research**, 56, 1901–1910, 2015, **Impact Factor: 1.52**
17. S. S. Nikte*, D. P. Nade, A. K. Sharma, G. A. Chavan, O. B. Gurav, M. V Rokade, M. P. Yadav, P. T. Patil, and R. N. Ghodpage, Observations in quiet day pattern of cosmic radio noise using riometers, **Canadian Journal of Basic and Applied Sciences (CJBAS)**, 3, 213–223, 2015, **Impact Factor: 0.19**
18. Gajanan Patil, Subhas Pawar, Onkar Gurav, Jalindar Bhosale, Sonali Rananavare, Variation in atmospheric air ion and its index of pollution during morning time (06:00 to

08:00 IST) in the sugarcane area at rural station Bhilawadi (16.5°N, 74.2°E), **Int. J. Environment and Sustainable Development**, Vol. 20, No. 2, 2021.

19. Rupesh N. Ghodpage, Alok Taori, D. P. Nade, M. K. Madhav Haridas, **O. B. Gurav**, Sanat K. Das & P. T. Patil, Impact of COVID-19 lockdown on ground-based airglow observations over India, **Remote Sensing Letters**, 12:5, 488-498, 2021.
20. R. N. Ghodpage, **O. B. Gurav**, A. Taori, S. Sau, P. T. Patil, V. C. Erram, S. Sripathi, Observation of an Intriguing Equatorial Plasma Bubble Event Over Indian Sector, **Journal of Geophysical Research**, 2021.

List of Publications in conference proceeding:

1. A. K. Sharma, O. B. Gurav, S. Gurubaran, G. A. Chavan, D. P. Nade, H. P. Gaikwad, R. N. Ghodpage, P. T. Patil, and S. S. Nikte, “Variations in Zonal Drift of equatorial Plasma Bubbles (EPBs) Over Kolhapur (16.4° N, 74.2° E 10.6° dip. lat.),” **Proceedings of Emerging Trends in Basic and Applied Sciences (ETBAS), Gargoti**, 1–8, 2015.

List of papers presented in National and International conferences:

1. **1st National Conference on Space and Atmospheric Science (NCSAS) at Sanjay Ghodawat University, Kolhapur, 2019.** O. B. Gurav*, A. K. Sharma, R. N. Ghodpage, D. P. Nade, G. A. Chavan, H. P. Gaikwad, P. T. Patil, “Zonal Drift Velocity of Equatorial Plasma Bubbles During Ascending Phase of 24th Solar Cycle Using All-Sky Imager Over Kolhapur, India”.
2. **15th International Symposium on Equatorial Aeronomy (ISEA-15) at PRL, Ahmedabad, India, 2018.** O. B. Gurav*, A. K. Sharma, V. L. Narayanan, R. N. Ghodpage, D. P. Nade, P. T. Patil and S. Gurubaran, “Morphology and evolution of Equatorial Plasma Bubbles using All Sky Imager over low latitude station Kolhapur, India”.
3. **National Space Science Symposium (NSSS) held at Vikran Sarabhai Space Center, Thiruvananthapuram during 09-12 February, 2016.** O. B. Gurav*, A. K. Sharma, D. P. Nade, G. A. Chavan, H. P. Gaikwad, P. T. Patil, R. N. Ghodpage and S. S. Nikte, “Nocturnal variation in dimensions of equatorial plasma bubbles over low latitude station Kolhapur”.
4. **2nd URSI-Regional Conference on Radio Science held at JNU New Delhi on 16th to 19th November, 2015.** O. B. Gurav*, A. K. Sharma, D. P. Nade, G. A. Chavan, H. P.

Gaikwad, S. S. Nikte, P. T. Patil, R. N. Ghodpage and S. Gurubaran, “Identification of bifurcation of equatorial plasma bubbles based on nightglow OI 630.0 nm emissions over Kolhapur”.

*Presenting author

List of workshops/webinars/FDP attended:

1. Attended “**online learning workshop for faculty**” organized by QASPIR in collaboration with UGC, New Delhi during 01-03 April 2020 (8 hrs. duration).
2. Attended “**e-Content development webinar**” organized by research center for English language and literature on 10th April 2020 (2 hrs. duration).
3. Attended online workshops on “**Intellectual property rights**” by Pandit Deendayal Petroleum University (PDPU) during 10-11 April 2020.
4. Attended webinar on “**The impact of research data and metrics**” by Skyline University College on 21st April 2020.
5. Attended faculty development programme: national webinar on “**Re-engineering Higher Education: A seamless knowledge management system for the university**” organized by Guru Anand Dev teaching learning center SGTB Khalsa college, University of Delhi under MHRD held on 22nd April 2020.
6. Attended online national webinar on “**Fine tuning research planning using Elsevier tools: SCIENCE DIRECT, SCOPUS and MENDELEY**” organized by K. J. Somaiya college of science and commerce in collaboration with Elsevier on 25th April 2020.
7. Attended one-week national level FDP workshop on “**Revised guidelines of NAAC**” organized by IQAC, YCIS (Autonomous), Satara during 27th to 2nd May 2020.
8. Attended online national level FDP on “**Decoding examination during and post COVID 19**” organized by SKILLSLATE and powered by Zovy Studios, Pune, on 8th May 2020.
9. Attended online three days Faculty Development Programme on “**Understanding the Revised Framework of NAAC**” organized by Rayat Shikshan Sanstha’s, Dahiwadi College, Dahiwadi, during 16th May 2020 to 18th May 2020.
10. Attended international webinar on “**Perspectives towards the wake of COVID-19: Today and Tomorrow**” organized by Department of Zoology and Microbiology, in association with IQAC Dahiwadi College Dahiwadi, on 20th May 2020.
11. Successfully completed a 4-Week Induction/Orientation Programme for “**Faculty in Universities/Colleges/Institutes of Higher Education**” from 11 January, 2021 - 09

February, 2021 and obtained grade A+ organized by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

12. Successfully completed “**Online Two - Week Interdisciplinary Refresher Course**” from 20th July 2021 to 03 August 2021 organized by Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

Declaration:

I hereby declare that all the contents mentioned above are true and correct to the best of my knowledge and belief.

Thanking you.

Place: Pune

Date: 09/08/2021

Dr. Onkar Bharat Gurav