

Curriculum vitae

Dr. Aashiq Hussain Bhat
(Assistant Professor, JK-HED)



PDF (NARL, Department of Space, Govt. of India)
Ph. D. (KU)
M. Sc. Physics, KU (Double Gold Medalist)
INSPIRE Fellow (DST)
JKSET

Details

R/o: Vijpara Hajin Sonawari,
Bandipora, 193501,
Jammu and Kashmir, India
Email: bhatashiq362@gmail.com
D.O.B: 10-03-1992

Education:

- 10th HSS Hajin, Bandipora (Distinction and Position Holder)
- 12th HSS Hajin, Bandipora (Distinction and Position Holder)
- B.Sc. Amar Singh College, Srinagar (Position Holder)
- M.Sc. Physics University of Kashmir, Srinagar (Position Holder / Gold Medalist)
- Qualified JKSET-2016
- Ph.D in the discipline of Physics, University of Kashmir, Srinagar
- Post-Doctorate at National Atmospheric Research Laboratory, Department of Space, Andhra Pradesh, India

Professional Recognitions:

- Working as Assistant Professor (Physics) in the J & K Higher Education Department from 25 January, 2025 to Till Date
- Worked as a contractual lecturer in the Department of Physics, University of Kashmir, Srinagar, J and K, India from 14 March, 2024 to 31 December 2024.

- Worked as a Post-Doctoral Fellow at NARL, Department of Space, Andhra Pradesh, India, from 18 November, 2022 to 06 March, 2024.
- Worked as a contractual lecturer in the Department of Physics, University of Kashmir, Srinagar, J and K, India from 25 May, 2022 to 15 November, 2022.
- Worked as a contractual lecturer at Govt. Degree College Sumbal, J and K, India for two months from May 01, 2017 to June 30, 2017.
- Worked as a Guest Lecturer at University of Kashmir, Srinagar, J and K, India for three months from October, 2017 to December, 2017.
- Worked as Inspire Research Fellow at Department of Physics, University of Kashmir, Srinagar, and K, India for six months from September, 2017 to September, 2022.

Courses Taught:

- Quantum Mechanics (PG Level)
- Mathematical Physics (PG Level)
- Electrodynamics (UG Level)
- Special Theory of Relativity (UG Level)
- Statistical Physics (UG Level)
- Atmospheric Physics (PG Level)
- Computational Physics (UG Level)

Number of M.Sc. Projects Carried out under my Supervision : 04 (completed)

Awards and Recognitions:

- Inspire Research Fellowship Award (2017)
- Kashmir University Gold Medal Award for 1st Position in M. Sc. Physics (2014 - 16).
- Prof. Rais Ahmad Gold Medal Award for 1st Position in M. Sc. Physics (2014 -16).
- Received David Hoffman Fund of \$1000 (U.S.D.) as a Travel Grant for attending the American Geophysical Union (AGU) Fall meeting-2020 at San Francisco USA.
- Abstract for the 43rd Assembly of Committee on Space Research (COSPAR-43) was selected for the financial support.

- Abstract for the 15th International Symposium on Equatorial Aeronomy (ISEA-15) was selected for the financial support.

Fellowships :

- INSPIRE Research Fellowship from DST, India (Inspire Fellowship ID **IF170611**).
- Post Doctoral Fellowship from Department of Space, India (DOS; Fellowship ID **RA-0026**).

Reviewer Recognitions

Total number of manuscripts reviewed : 15

Reviewer of various journals including :

- Journal of Geophysical Research, Space Physics (American Geophysical Union)
- Advances in Space Research
- Atmosphere
- Remote sensing

List of Publications:

- **Bhat, A.H.**, Ganaie, B.A., Ramkumar, T.K., Chaitanaya P.P., Malik M. A. (2021a). Simultaneous detection of medium-scale traveling ionospheric disturbances and ionospheric plasma irregularities over Srinagar, JK, India. **Acta Geophys.** 69, 931-945. <https://doi.org/10.1007/s11600-021-00590-w>.
- **Bhat, A.H.**, Ganaie, B.A., Ramkumar, T.K., Malik M. A. (2021c). Northward propagation of medium scale traveling ionospheric disturbances over Srinagar, J and K India, **Advances in Space Research**, 68, 3806–3813. <https://doi.org/10.1016/j.asr.2021.06.035>.
- Ramkumar, T.K., Malik M.A., Ganaie, B.A., **Bhat, A.H.** (2021). Airglow imager based observation of possible influences of subtropical mesospheric gravity waves on F region ionosphere over Jammu and Kashmir, India. **Scientific Reports**, 11:10168, <https://doi.org/10.1038/s41598-021-89694-3>.
- **Bhat, A.H.**, Ganaie, B.A., Ramkumar, T.K., Malik M. A., Chaitanaya P.P. (2021b). Westward Drift of Ionospheric Plasma Irregularities over a Low to Mid-latitude Transition Region in Indian Sector. **ANNALS OF GEOPHYSICS**, 64, 4, PA437, 2021; doi:10.4401/ag-8510.

- **Bhat, A.H.**, Ganaie, B.A., Ramkumar, T.K., Malik M. A. (2021d). Rotation, Bifurcation and Merging of Medium-scale Traveling Ionospheric Disturbances over a Low-mid Latitude Transition Region, *Journal of Atmospheric and Solar–Terrestrial Physics*, 226, 105779 <https://doi.org/10.1016/j.jastp.2021.105779>.
- Ganaie, B.A., Ramkumar, T.K., **Bhat, A.H.**, Malik M. A. (2022). Imager observation of concentric mesospheric gravity waves over Srinagar, Jammu and Kashmir, India. **Advances in Space Research**, 70 (2022) 427–439. <https://doi.org/10.1016/j.asr.2022.04.035>.
- Rather M. R., **A. H. Bhat**, T. K. Ramkumar, M. A. Malik (2023). Unique observations and interactions over the low-mid latitude transition region: Simultaneous study of plasma blobs, MSTIDs and plasma irregularities, **Advances in Space Research**, <https://doi.org/10.1016/j.asr.2023.09.038>.
- **Bhat, A. H.**, Rather M. R., T. K. Ramkumar, M. A. Malik (2024). The Role of Convectively-Generated Gravity Waves in Poleward Propagation of MSTIDs over Srinagar (34.1° N, 74.8° E). **J. Geophys. Res.: SpacePhys.** 129, e2023JA032199. <https://doi.org/10.1029/2023JA032199>.
- Rather M. R., **A. H. Bhat**, T. K. Ramkumar, M. A. Malik (2024). Exploring the link between convectively generated gravity waves and ionospheric anomalies: Insights from observations near the low-mid latitude geomagnetic transition region. **Advances in Space Research**, 74 (2024) 1039–1055, <https://doi.org/10.1016/j.asr.2024.04.027>

Conferences and Seminars Attended:

- Presented a paper in International Symposium on Equatorial aeronomy (ISEA-15) at Physics Research Laboratory Ahmadabad (22-26 October 2018). (Abstract selected for Financial Support).
- Presented a paper in the American Geophysical Union (AGU) Fall meeting - 2020 held in San Francisco USA from 01-17 December 2020. (Recieved a financial grant of 1000 USD).
- Presented a paper in the COSPAR-2021 held in Sydney Australia in January 2021. (Abstract selected for Financial Support).
- Presented a paper in National Space Science Symposium (NSSS-2024) at Goa University, India (26th February - 01 March 2024).
- Presented a paper in a national seminar, Growth Points in Physics-II in 2019 held at University of Kashmir, Srinagar.

- Attended an online workshop on NavIC/GNSS: Techniques and Applications organized by NARL, Gadanki from 03-05 August 2021.
- Attended a national seminar, Growth Points in Physics-I in 2018 held at University of Kashmir, Srinagar
- Attended JK-Science Congress held at University of Kashmir, Srinagar in 2018.

Extracurricular activities:

- Played Cricket at University level.
- Participated in various debates, seminars, symposiums and conferences.
- Participated in Road Race at Amar Singh College, Srinagar.
- Participated in several quiz competitions.