

Dr. UMA DAS

DESIGNATION & AFFILIATION

Assistant Professor
Department of Physics
Indian Institute of Information Technology, Kalyani
Kalyani - 741235, West Bengal
Email: umakota@gmail.com

EMPLOYMENT

- Assistant Professor, Indian Institute of Information Technology, Kalyani, India, June 2016 - Present

RESEARCH EXPERIENCE

- Visiting Scientist at National Central University, Taiwan, April 2016
- Post Doctoral Fellow at Department of Physics, University of New Brunswick, Canada, December 2013 – May 2015
- Post Doctoral Fellow at Institute of Space Science, National Central University, Taiwan, Jan 2010 – August 2013
- Post Doctoral Fellow at Physical Research Laboratory (PRL), Ahmedabad, India, July 2008 – Jan 2010
- Senior Research Fellow at PRL, Ahmedabad, India, May 2005 – July 2008
- Junior Research Fellow at PRL, Ahmedabad, India, May 2003 – April 2005

ACADEMIC BACKGROUND:

- Ph.D. in Science from Gujarat University for the work carried out on “Rocket borne studies of Mesosphere and Airglow Emissions” at Physical Research Laboratory, India, July 2009
- M. Tech. Space and Atmospheric Science from Andhra University during 2002-2004 (Grade A); Thesis: “Multi Wavelength Studies of Mesospheric and Lower Thermospheric Airglow Emissions”
- M. Sc. Space Physics from Andhra University during 2000-2002 (74.1%)
- B. Sc. (Mathematics, Physics, Computer Science) from Nishita Degree College, Nizamabad; affiliated to Osmania University during 1997 – 2000 (82.6%)
- XII Class (AISSCE) from Bharatiya Vidya Bhavan, Bhimavaram; Central Board of Secondary Education during 1995-1997 (79.2 %)
- X Class (AISSC) from Bharatiya Vidya Bhavan, Bhimavaram; Central Board of Secondary Education during 1994 – 1995 (79.4%)

PROFESSIONAL DEGREE:

- **Diploma in University Teaching**, 2015, University of New Brunswick, Fredericton, Canada.

AWARDS & HONOURS

1. Natural Sciences and Engineering Research Council (NSERC) Postdoctoral Fellowship as part of "Probing the Atmosphere of the High Arctic" (PAHA) Project at University of New Brunswick, Canada.
2. Sing, Das, et al 2013, JC, received **Sanggar Sanjung Award 2013** for Best Publication by Universiti Sains Malaysia, Pulau Pinang Malaysia (<http://web.usm.my/sanggarsanjung/default.asp?tag=2009&cat=B&sesid=5&t=AS>).
3. Honorable Mention for the 2013 **NASA Jack Eddy** Heliophysics Postdoctoral Fellowship Program (<http://www.vsp.ucar.edu/Heliophysics/post-about-alumni-2013.shtml>)
4. Das et al 2010, JGR, was selected as an **Editor's Choice Paper** of 2010
5. Das et al 2011, EPS, was selected as **Highlight Papers** by the Editorial Board in 2011 (http://www.terrapub.co.jp/journals/EPS/highlight_papers.html)

PUBLICATIONS IN PEER REVIEWED JOURNALS (17)

*Papers that received Recognition (3); Corresponding Author (Underlined)

No. of Citations: According to Research Gate Statistics.

1. **Uma Das** and C. J. Pan, "Influence of El Nino Southern Oscillation on Equatorial Atmospheric Kelvin waves", *Science of Total Environment*, 544, 908-918, doi:10.1016/j.scitotenv.2015.12.009, 2016. [*Impact Factor: 4.099, Citation: 0*]
2. S. S. Yang, C. J. Pan, **Uma Das** and H. C. Lai, "Analysis of Synoptic Scale Controlling Factors in the Distribution of Gravity Wave Potential Energy", *J. Atmos. Sol. Terr. Phys.*, 135, 126-135, doi:10.1016/j.jastp.2015.10.020, 2015. [*Impact Factor: 1.474, Citation: 0*]
3. D. Selvaraj, A. K. Patra, H. Chandra, H. S. S. Sinha, **Uma Das**, "Scattering cross section of mesospheric echoes and turbulence parameters from Gadanki radar observations", *J. Atmos. Sol. Terr. Phys.*, 119, 162-172, doi:10.1016/j.jastp.2014.08.004, 2014. [*Impact Factor: 1.751, Citation: 2*]
4. **Uma Das** and C. J. Pan, "Validation of FORMOSAT-3/COSMIC 'atmprf' global temperature data in the Stratosphere", *Atmospheric Measurement Techniques*, 7, 731-742, doi:10.5194/amt-7-731-2014, 2014. [*Impact Factor: 3.206, Citation: 8*]
5. *Lim Eng Sing, **Uma Das**, C. J. Pan, Khiruddin Abdullah, and C. J. Wong, "Investigating Variability of Outgoing Longwave Radiation over Peninsular Malaysia using Wavelet Transform", *J. Climate*, 26, 3415-3428, doi:10.1175/JCLI-D-12-00345.1, 2013. [*Impact Factor: 4.362, Citation: 1*]
6. **Uma Das** and C. J. Pan, "Strong Kelvin Wave Activity Observed during the Westerly Phase of QBO - A Case Study", *Ann. Geophys.*, 31, 581-590, doi:10.5194/angeo-31-581-2013, 2013. [*Impact Factor: 1.518, Citation: 4*]
7. H. Chandra, H. S. S. Sinha, A. K. Patra, **Uma Das**, D. Selvaraj, R. N. Misra, and Jayati Datta, 'Low latitude mesospheric turbulence investigated using coordinated MST radar and rocket-borne observations from India', *J. Geophys. Res.*, 117, D22109, doi:10.1029/2011JD016946, 2012. [*Impact Factor: 3.021, Citation: 2*]
8. **Uma Das** and C. J. Pan, "The Temperature Structure of Mesosphere over Taiwan and comparison with other Latitudes", *J. Geophys. Res.*, 116, D00P06, doi:10.1029/2010JD015034, 2011. [*Impact Factor: 3.303, Citation: 2*]

9. ***Uma Das**, C. J. Pan, H. S. S. Sinha, “Effects of Solar Cycle Variations on Oxygen Green Line Emission Rate over Kiso”, *Earth Planets Space*, 63, 941–948, 2011. [*Impact Factor: 1.112, Citation: 4*]
10. C. J. Pan, **Uma Das**, S. S. Yang, C. J. Wong and H. C. Lai, “Investigation of Kelvin waves in the Stratosphere Using FORMOSAT-3/COSMIC Temperature Data”, *J. Meteor. Soc. Japan.*, 89A, 83-86, 2011. [*Impact Factor: 1.149, Citation: 4*]
11. ***Uma Das**, Duggirala Pallamraju and S. Chakrabarti, “Effect of an X-Class solar flare on the OI 630 nm dayglow emissions”, *J. Geophys. Res.*, 115, A08302, doi:10.1029/2010JA015370, 2010. [*Impact Factor: 3.082, Citation: 4*]
12. **Uma Das** and H. S. S. Sinha, “The Winter Equatorial Mesospheric Neutral Turbulence“, *Curr. Sci.*, 99, 1, 80-85, 2010. [*Impact Factor: 0.782, Citation: 2*]
13. Duggirala Pallamraju, **Uma Das** and S. Chakrabarti, “Short- and long-timescale thermospheric variability as observed from OI 630.0 nm dayglow emissions from low-latitudes”, *J. Geophys. Res.*, 115, A06312, doi:10.1029/2009JA015042, 2010. [*Impact Factor: 3.082, Citation: 10*]
14. Patra, A. K., N. Venkateswara Rao, D. V. Phanikumar, H. Chandra, **Uma Das**, H. S. S. Sinha, T. K. Pant, and S. Sripathi, “A study on the low-latitude daytime E region plasma irregularities using coordinated VHF radar, rocket-borne, and Ionosonde observations”, *J. Geophys. Res.*, 114, A11301, doi:10.1029/2009JA014501, 2009. [*Impact Factor: 3.147, Citation: 6*]
15. **Uma Das**, H. S. S. Sinha, Som Sarma, H. Chandra and Sanat K. Das, “Fine Structure of the Low Latitude Mesospheric Turbulence”, *J. Geophys. Res.*, 114, D10111, doi:10.1029/2008JD011307, 2009. [*Impact Factor: 3.147, Citation: 12*]
16. **Uma Das** and H. S. S. Sinha, ‘Long term variations in oxygen green line emission over Kiso, Japan from ground photometric observations using continuous wavelet transform’, *J. Geophys. Res.*, 113, D19115, doi:10.1029/2007JD009516, 2008. [*Impact Factor: 2.953, Citation: 10*]
17. H. Chandra, H. S. S. Sinha, **Uma Das**, R. N. Misra, S. R. Das, Jayati Datta, S. C. Chakravarty, A. K. Patra, N. Venkateswara Rao and D. Narayan Rao, ‘First mesospheric turbulence study using coordinated rocket and MST radar measurements over Indian low latitude region’, *Ann. Geophys.*, 26, 2725–2738, 2008. [*Impact Factor: 1.427, Citation: 12*]

UNDER REVIEW / IN PREPARATION

1. **Uma Das**, William Ward and Jian Du, “Aliasing Issues in Satellite Data Analysis for Investigation of Non-Migrating Tides in the Middle Atmosphere”, *In preparation*.
2. William Ward, **Uma Das** and Jian Du “Tidal Variability near the High Latitude Mesopause Region”, *In Preparation*.
3. **Uma Das** and William Ward, “On the Discrepancy between Variability in SABER and COSMIC Temperatures”, *In Preparation*.
4. **Uma Das** and C. J. Pan, “The Vertical Wavelength of Equatorial Kelvin Waves”, in Preparation.

PAPERS PRESENTED IN CONFERENCES/SYMPOSIA/WORKSHOPS

Presenting Author: Underlined

1. W. Ward, **Uma Das** and Jian Du, “Tidal coupling through the middle/upper atmosphere”, 41st COSPAR Scientific Assembly, 30 July-7 August 2016, Istanbul, Turkey.

2. W. Ward, **Uma Das** and Jian Du, “Coupling associated with the Superposition of Tidal Components in the Mesosphere and Lower Thermosphere”, AOGS 12th Annual Meeting, 2-7 August 2015, Singapore.
3. **Uma Das**, W. Ward and Jian Du, “Aliasing Effects in the Diagnosis of Tides and Planetary Waves in Satellite Data”, AGU Fall Meeting, 15-19 December 2014, San Francisco, USA.
4. W. Ward, **Uma Das** and Jian Du, “Consequences of the Superposition of Tidal Components on the Dynamics of Mesosphere and Lower Thermosphere”, AGU Fall Meeting, 15-19 December 2014, San Francisco, USA.
5. W. Ward, **Uma Das** and Jian Du, “Tidal Variability in the Mesopause Region”, 5th IAGA/ICMA/SCOSTEP Workshop on Vertical Coupling in the Atmosphere-Ionosphere System, 11 - 15 August 2014, Antalya, Turkey.
6. **Uma Das**, C. J. Pan and W. Ward, “Equatorial Middle Atmospheric Dynamics”, 5th IUPAP International Conference for Women in Physics, 5-8 August 2014, Waterloo, Canada.
7. W. Ward, **Uma Das** and Jian Du, “Tidal influences and variability in the mesosphere and lower thermosphere”, 40th COSPAR Scientific Assembly, 2-10 August, 2014, Moscow, Russia.
8. W. Ward, Alan Manson, Marianna Shepherd, Young-Min Cho, **Uma Das**, Samuel Kristoffersen, Chris Meek, Christopher Vail, James Drummond, “Dynamics In The Mesosphere And Lower Thermosphere In The High Arctic: Observations From The Polar Environment Atmospheric Research Laboratory”, 40th COSPAR Scientific Assembly, 2-10 August, 2014, Moscow, Russia.
9. **Uma Das** and W. Ward, “Wave Analysis and Aliasing Issues”, PAHA/CANDAC Workshop and CREATE Research Symposium, 24-25 April 2014, Toronto, Canada.
10. **Uma Das** and C. J. Pan, “Effects of El Nino Southern Oscillation on Equatorial Atmospheric Kelvin Waves”, Canadian Association of Physicists (CAP) Division of Atmospheric and Space Physics (DASP) Annual Meeting, 19-21 February, 2014, Fredericton, Canada.
11. **Uma Das** and C. J. Pan, ‘Vertical Properties of Atmospheric Kelvin Waves’, 2013 Workshop on Whole Atmosphere Coupling during Solar Cycle 24, 14-17 July 2013, Institute of Space Science, National Central University, Jhongli City, Taiwan (**Invited**).
12. **Uma Das** and C. J. Pan, ‘Investigation of Generation of Equatorial Atmospheric Kelvin Waves – What Decides the Horizontal and Vertical Properties?’, Asia Oceania Geosciences Society (AOGS), 24-28th June 2013, Brisbane, Australia.
13. **Uma Das** and C. J. Pan, ‘Ultra-Fast Kelvin Waves - Sources, Generation of Preferential Modes, and Effects on the Ionosphere-Thermosphere System’, Japan Geosciences Union Meeting, 19-24th, May, 2013, Tokyo, Japan.
14. C. J. Pan and **Uma Das**, ‘FORMOSAT-3/COSMIC Temperature in the Middle Atmosphere - Comparison with SABER & MLS Temperatures and Reanalyses Data’, Japan Geosciences Union Meeting, 19-24th, May, 2013, Tokyo, Japan.
15. **Uma Das**, C. J. Pan and H. S. S. Sinha, ‘Long term study of the oxygen green airglow using Continuous Wavelet Transform and Hilbert-Huang transform’, 39th COSPAR Scientific Assembly, 14-22 July 2012, Mysore, India.
16. **Uma Das**, C. J. Pan, S. S. Yang, ‘High Kelvin wave activity observed during the westerly phase of QBO’, 39th COSPAR Scientific Assembly, 14-22 July 2012, Mysore, India.
17. S. S. Yang, C. J. Pan, **Uma Das**, ‘Investigation of westward propagating equatorial waves’, American Geophysical Union, Fall Meeting 2011, abstract #A51A-0280, 12/2011.
18. **Uma Das** and C. J. Pan, ‘The Temperature Structure of Mesosphere over Taiwan and comparison with other Latitudes’, The Ninth Cross-Strait Space Science Workshop (CSSSW9), 16-22 October 2010, Longtan, Taiwan.

19. C. J. Pan, S. S. Yang and **Uma Das**, 'Investigation of Kelvin waves in the stratosphere using FORMOSAT-3/COSMIC Temperature data', The Ninth Cross-Strait Space Science Workshop (CSSSW9), 16-22 October 2010, Longtan, Taiwan.
20. Duggirala Pallamraju, **Uma Das** and Chakrabarti S, 'Wave Dynamics of Dayglow Emissions over Low-Latitudes', 38th COSPAR Scientific Assembly, 18-25 July 2010, Singapore, Vol 38, 943.
21. **Uma Das**, H. S. S. Sinha, H. Chandra, A. K. Patra, 'Seasonal Variation in Mesospheric Neutral Turbulence Investigated using Rocket and Radar Observations', Asia Oceania Geosciences Society (AOGS), 5-9 July 2010, Hyderabad, India (**Invited**).
22. **Uma Das**, Duggirala Pallamraju, S. Chakrabarti, "Effect of an X-Class solar flare on the OI 630 nm dayglow emission", Western Pacific Geophysics Meeting (WPGM), 22-25 June 2010, Taipei, Taiwan.
23. **Uma Das**, Duggirala Pallamraju, S. Chakrabarti, "Effect of an X-class Flare seen in the Neutral Oxygen Dayglow Emissions", Asia Oceania Geosciences Society (AOGS), 6th Annual Meeting, 11-15 August 2009, Singapore.
24. Duggirala Pallamraju, **Uma Das**, S. Chakrabarti, "Short and Long Term Wave Dynamics as Derived From Daytime Airglow Observations From Low-Latitudes", Asia Oceania Geosciences Society (AOGS), 6th Annual Meeting, 11-15 August 2009, Singapore.
25. **Uma Das** and H. S. S. Sinha, "Long term variations in oxygen green line emission over Kiso from ground based observations using Continuous Wavelet Transform", Book of Abstracts, pg 57, International Symposium on Equatorial Aeronomy - 12 (ISEA-12), 18-24 May 2008, Crete, Greece.
26. H. S. S. Sinha, **Uma Das**, R. N. Misra, M. B. Dadhania, Swaroop Banerjee and N. Dutt, "Study of Mesospheric Turbulence using Rocket-borne Electron Density Measurements", Book of Abstracts, pg 67, International Symposium on Equatorial Aeronomy - 12 (ISEA-12), 18-24 May 2008, Crete, Greece.
27. H. Chandra, H. S. S. Sinha, R. N. Misra, S. R. Das, **Uma Kota**, D. Narayan Rao, A. K. Patra, S. C. Chakravarty, Jayati Datta, "Mesospheric Turbulence Studies using Rocket and Indian MST Radar", Proceedings of the Eleventh-International Workshop on Technical and Scientific aspects on MST RADAR (MST11), 11-15 December 2006, Gadanki, India.
28. H. Chandra, H. S. S. Sinha, R. N. Misra, S. R. Das, **Uma Kota**, Jayati Datta, S. C. Chakravarty, A. K. Patra, D. N. Rao, "Mesospheric turbulence studies using rocket and MST radar over low latitude: campaign of July, 2004", 36th COSPAR Scientific Assembly, 16-23 July 2006, Beijing, China.
29. H. Chandra, H. S. S. Sinha, R.N.Misra, S. R. Das, **Uma Kota**, D. Narayan Rao, A. K. Patra, S. C. Chakravarty, Jayati Datta, Geetha Ramkumar, C. V. Devasia, S. Gurubaran, S. Alex, A. R. Jain, "Mesospheric turbulence and stratification studies using rocket-borne, MST radar and other ground based experiments", 11th International Symposium on Equatorial Aeronomy, 9-14 May 2005, Taipei, Taiwan.
30. H. S. S. Sinha, P. K. Rajesh, J. Y. Liu, R. N. Misra, S. B. Banerjee, N. Dutt, M. B. Dadhania, **Uma Kota**, "All Sky Imaging of Plasma Depletions Over Indian Zone During Solar Maximum", 11th International Symposium on Equatorial Aeronomy, 9-14 May 2005, Taipei, Taiwan.

CONFERENCES / SYMPOSIA/ WORKSHOPS ATTENDED

1. AGU Fall Meeting, 15-19 December, 2014, San Francisco, USA.
2. Universal Design in Post-Secondary Teaching: Reality or Utopia? 9-10 November 2014, Fredericton, Canada.

3. 5th IUPAP International Conference for Women in Physics, 5-8 August 2014, Waterloo, Canada.
4. PAHA/CANDAC Workshop and CREATE Research Symposium, 24-25 April 2014, Toronto, Canada.
5. Canadian Association of Physicists (CAP) Division of Atmospheric and Space Physics (DASP) Annual Meeting, 19-21 February, 2014, Fredericton, Canada.
6. 2013 Whole Atmosphere Coupling Workshop during Solar Cycle 24, 14-17 July 2013, Institute of Space Science National Central University, Jhongli City, Taiwan.
7. 10th Asia Oceania Geosciences Meeting (AOGS), 24-28 June, 2013, Brisbane, Australia.
8. 39th COSPAR Scientific Assembly, 14-22 July 2012, Mysore, India.
9. The Ninth Cross-Strait Space Science Symposium (CSSW9), 16-22 October 2010, Longtan, Taiwan.
10. 7th Asia Oceania Geosciences Meeting (AOGS), 5-9 July 2010, Hyderabad, India.
11. 2010 Western Pacific Geophysics Meeting (WPGM), 22–25 June 2010, Taipei, Taiwan.
12. One-day Symposium on ‘Women in Science – A Career in Science’, St. Xaviers College, Ahmedabad, India, 13 September 2008.
13. 12th International Symposium on Equatorial Aeronomy (ISEA-12), Crete, Greece, May 18-24, 2008.
14. XVth National Conference on Atomic and Molecular Physics, Physical Research Laboratory, Ahmedabad, India, 20-23 December, 2004.
15. 5th PLANEX Workshop on Moon and Meteorites, Physical Research Laboratory, Ahmedabad, India, November 2004.

OTHER CONTRIBUTIONS

1. Sinha, H. S. S., R. Pandey, and R. N. Misra, In situ measurement of nighttime plasma density irregularities over an equatorial station Trivandrum, *J. Geophys. Res.*, 115, A11308, doi:10.1029/2010JA015616, 2010.

LECTURES/SEMINARS

- 1) Seminar on “**Equatorial Atmospheric Kelvin Waves and their Effects on the Quasi-Biennial Oscillation**”, at the Department of Physics, University of New Brunswick, Fredericton, Canada, in February 2014.
- 2) Invited Seminar on ‘**Equatorial Kelvin Waves from FORMOSAT-3/COSMIC**’, at the Physics Department, Indian Institute of Science Education and Research (IISER), Kolkata, India, in August 2012.
- 3) Invited Seminar on “**Rocket-borne studies of Mesospheric Turbulence**”, at the Physics Department, Yogi Vemana University, Kadapa, India, in June 2010.
- 4) Colloquium on “**Rocket-borne studies of Mesospheric Turbulence**”, at Physical Research Laboratory, Ahmedabad, India in September 2009.
- 5) Presentation on, “**Explorations of Upper Atmosphere**”, at Physical Research Laboratory, Ahmedabad, India in April 2009.
- 6) Seminar on “**On Deriving Upper Atmospheric Dynamics from Dayglow Emissions**”, at Physical Research Laboratory, Ahmedabad, India in December 2008.
- 7) Lecture on “**Space & Atmospheric Sciences Studies at Physical Research Laboratory (PRL)**”, at Regional NCC center, Ahmedabad, India in October 2008.

- 8) Seminar on **“Long Term Variations in Oxygen Airglow”**, at Physical Research Laboratory, Ahmedabad, India in February 2008.
- 9) Seminar on **“Study of Neutral Turbulence using Wavelet Analysis”**, at Physical Research Laboratory, Ahmedabad, India in July 2007.
- 10) Seminar on **“Neutral Turbulence in the Mesosphere and Lower Thermosphere”**, at Physical Research Laboratory, Ahmedabad, India in November 2006.
- 11) Seminar on **“OH Meinel Bands in the MLT region”**, at Physical Research Laboratory, Ahmedabad, India in November 2005.
- 12) Lecture on **“Some Facts about Our Solar System”** to CAT aspiring students at Career Launcher, Ahmedabad, India in October 2005.
- 13) Invited Seminar on **“Why Physics is Interesting to Me?”** to B. Sc. Students, Nizamabad, India in April 2005.
- 14) Seminar on **“RH 300 MKII Mesospheric Airglow Emissions Studies - ABHA”**, at Physical Research Laboratory, Ahmedabad, India in March 2005.
- 15) Lecture on **“Interstellar Grains in Meteorites”** in the 5th PLANEX Workshop on Moon and Meteorites at Physical Research Laboratory, Ahmedabad, India in November 2004.

ACADEMIC RESPONSIBILITIES

Reviewer to Journals

1. Atmospheric Research
2. Advances in Space Research
3. Indian Journal of Radio and Space Physics
4. Journal of Atmospheric and Solar-Terrestrial Physics

RESEARCH INTERESTS:

1. Investigations of Atmospheric Dynamics
 - a. Mesosphere and Lower Thermosphere
 - b. Middle Atmosphere (Upper Troposphere and Stratosphere)
2. Latitudinal and Vertical Coupling between the Lower and Upper Atmosphere
3. Long Term Atmospheric Variations and Climate Change.

My main research interests are in understanding the dynamics of the Earth's middle and upper atmosphere, which involves the coupling between various regions latitudinally and altitudinally, i.e., the troposphere-stratosphere-mesosphere-thermosphere-ionosphere coupling and the lateral coupling from high- to low-latitudes and vice-versa. I would like to investigate these dynamical phenomena in the Earth's atmosphere in-situ measurements using rocket borne instruments like Langmuir probe (electron density), vapor trails (neutral and plasma winds) etc. I am also interested in global and long term variations in the atmosphere that can be investigated using large database of satellite observations, reanalysis data and model outputs to examine climate change effects on the Earth's upper atmosphere.

I would also like to work on quiet time and disturbed time upper atmosphere, space weather phenomena, seismogenic ionosphere, planetary atmospheres, aerosols and air quality.

SCIENTIFIC PROJECTS INVOLVED and GRANTS RECEIVED:

- Natural Sciences and Engineering Research Council (NSERC) Postdoctoral Fellowship as part of "Probing the Atmosphere of the High Arctic" (PAHA) Project at University of New Brunswick, Canada.

- ❑ ‘Investigations of Gravity wave activity using SABER/TIMED and FORMOSAT-3/COSMIC Data’, NCU, Taiwan (NSC 101-2914-I-008-012-A1).
- ❑ ‘Investigations of Kelvin wave activity using FORMOSAT-3/COSMIC Data’, NCU, Taiwan (NSC 99-2111-M-008-006-MY2).
- ❑ ABHA – Rocket borne mesospheric and lower thermospheric nightglow emission intensity measurements using multi-wavelength photometer and electron density measurements using Langmuir probe, PRL, India (JRF/SRF).
- ❑ MTS (Mesospheric Turbulence and Stratification): Rocket borne electron density measurements using Langmuir probe and ion density measurements using spherical probe, in coordination with simultaneous MST radar observations, PRL, India (JRF/SRF).

MISCELLANEOUS:

1. Cleared **December 2003 CSIR-NET** (Council for Scientific and Industrial Research – National Eligibility Test) and obtained **LecturerShip**.
2. Summer project entitled “Study of Ionospheric Plasma Depletions Using Optical Imager” at Physical Research Laboratory during May – July 2002.
3. Obtained **150/150 marks** in **Physics** during B.Sc. First year (1997-1998)

PERSONAL PROFILE:

Name : Uma Das
Maiden Name : Kota
Date of Birth : 30 April, 1980
Mobile : +91 90516 46410
Email : umakota@gmail.com
Languages Known : English, Telugu, Hindi and Bengali.
Marital Status : Married, with two children.
Nationality : Indian
Permanent Address : 7/B Bijoynagar
P.O. Naihati - 743165
North 24 Parganas
West Bengal, India