

CURRICULUM VITAE

ALOK CHANDRA GUPTA

Office Address

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PERSONAL INFORMATION

Sex: Male, **Date of Birth:** 18:02:1970, **Place of Birth:** Padrauna (U.P), India

Marital Status: Married, **Children:** One girl & One boy, **Nationality:** Indian

EDUCATION

Ph. D. Physics: Deen Dayal Upadhyay (DDU) Gorakhpur University, Gorakhpur, India
(1999)

Thesis Title: Astrometric and CCD Photometric Studies of Galactic Globular Clusters

Thesis Advisers: Prof. U. S. Pandey, Department of Physics, DDU Gorakhpur
University, Gorakhpur – 273 009, India

Prof. R. Sagar (Ex–Director), Aryabhatta Research Institute of
Observational Sciences (ARIES), Naini Tal – 263 129, India

M. Sc. Physics: Gorakhpur University, Gorakhpur, India

B. Sc. (Physics, Maths, Chemistry): Gorakhpur University, Gorakhpur, India

PROFESSIONAL EMPLOYMENT

A. Faculty Position

5. Faculty member (Scientist – E) in ARIES, Nainital, India (**Since July 01, 2013 to continue**).
4. Faculty member (Scientist – D) in ARIES, Nainital, India (**January 01, 2009 to June 30, 2013**).
3. Faculty member (Scientist – C) in ARIES, Nainital, India (**January 07, 2008 to December 31, 2008**).
2. Visiting faculty member in Center for Astrophysics, Guangzhou University, Guangzhou, China (**October 2007 – December 2007**).
1. Visiting faculty member in the extra galactic astronomy group of the National Astronomical Observatories of China (NAOC) / Yunnan Observatory, Kunming, China (**May 2006 – September 2007**).

B. Postdoctoral / Visiting Fellowship (Long Term)

3. Department of High Energy Physics, Tata Institute of Fundamental Research (TIFR), Mumbai, India, February 2005 – April 2006.

2. Harish–Chandra Research Institute (HRI), Allahabad, India, March 2002 – January 2005.
1. Astronomy and Astrophysics Division, Physical Research Laboratory (PRL), Ahmedabad, India, July 1999 – July 2001.

C. Visiting Fellowship / Collaborative Visit (Short Term)

12. Visited Astronomical Observatory of the Jagiellonian University, Krakow, Poland and Nicolus Copernicus Astronomical Center, Warsaw, Poland during September 11–26, 2017 under my Indo–Poland bilateral scientific exchange project funded by the Department of Science and Technology (DST), Government of India.
11. Visited Shanghai Astronomical Observatory, Shanghai, China for 1 year June 1, 2016 – May 26, 2017 on my sabbatical for working under Chinese Academy of Sciences (CAS), President International Fellowship Initiative (PIFI) as visiting faculty.
10. Visited School of Space science and Physics, Shandong University, Weihai, China for 4 days (January 3 - 6, 2017).
9. Visited Shanghai Astronomical Observatory, Shanghai, China for 1 month June 7 - July 5, 2015 and earlier visited for 2 months January - February 2015 for working under Chinese Academy of Sciences (CAS), short term visiting fellowship.
8. Visited National Astronomical Observatories of China (NAOC), Beijing, China in December 2012 to discuss some joint future collaborative research projects.
7. Visited Institute of Astronomy, Sofia, Bulgaria during September – October 2011 (for one month) under my Indo–Bulgaria bilateral scientific exchange project funded by the Department of Science and Technology (DST), Government of India.
6. Visited Hiroshima University, Japan in March 2010 (for one week) to discuss some joint collaborative projects and delivered two invited talks.
5. Visiting Fellowship in Center for Astrophysics, Guangzhou University, Guangzhou, China, November–December 2004 (for 3 weeks), September–October 2010 (for 1 month), December 2012 (for 2 weeks), July 2015 (for 1 week), January 2017 (for 1 week), and May 2017 (for 1 week).
4. Visiting Fellowship in Observatoire de Paris, Meudon, Paris, France, December 2001 (for one month).
3. Visiting Fellowship in Sternwarte, Bonn, Germany, November 2001 (for two weeks).
2. Visiting Fellowship in Max Plank Institute for Astronomy, Heidelberg, Germany, November 2001 (for two weeks).
1. Visiting Fellowship in Landessternwarte, Heidelberg, Germany, August – October 2001 and January 2002 (for 4 months).

RESEARCH INTERESTS

- Multi-Wavelength Variability of Blazars on Diverse Timescales
- Quasi Periodic Oscillations (QPOs) in Various Classes of AGNs on Diverse Timescales
- Optical and X-ray Variability of Various Classes of Luminous AGNs

- Multi-Wavelength properties of Blazars using SDSS (Sloan Digital Sky Survey) data
- Black Hole Mass and Spin in the Transient Universe
- Ultra High Energy Cosmic Ray (UHECR) Emitting AGNs

MEMBERSHIP OF ASTRONOMICAL SOCIETIES

- Life Member of Astronomical Society of India (ASI)
 - Member of International Astronomical Union (IAU)
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RESEARCH STUDENTS SUPERVISION

A. Ph. D. Students

1. **Ms. Bindu Rani**, a research scholar of ARIES worked under my supervision during August 2008 – February 2012 on the project “Multi-wavelength Variability Studies of Low Energy Peaked Blazars on Diverse Timescales”. She moved to Max Plank Institute for Radio Astronomy (MPIfR), Bonn, Germany without completing Ph. D.
2. **Dr. Haritma Gaur**, a research scholar of ARIES worked under my supervision since August 2009 on the project “X-ray and Optical Studies of Blazars” (**Ph. D. thesis submitted in February 2013, awarded in September 2013**).
3. **Mr. Jai Bhagwan**, a research scholar of ARIES is working under my supervision since August 2011 on the project “Multi-wavelength Studies of AGN” (**Ph. D. thesis submitted in March 2016, awarded in September 2017**).
4. **Ms. Aditi Agarwal**, a research scholar of ARIES is working under my supervision since May 2013 on the project “Multi-wavelength Studies of Blazars”. (**Ph. D. thesis submitted in July 2016, awarded in March 2017**).
5. **Ms. Nibedita Kalita**, a research scholar of Gauhati University is working under my supervision since April 2013 on the project “Multi-wavelength Studies of Blazars with XMM-Newton”. I am her co-supervisor. (**Ph. D. thesis submitted in November 2016, awarded in October 2017**).
6. **Mr. Nabhdeep Singh Popli**, a research scholar under BRNS-DAE funded project is working under my supervision since August 2014 on the project “Multi-band High Energy Emission from High Energy Peaked Blazars”. Dr. K. K. Yadav of BARC is his co-supervisor. He left the project in March 2016.
7. **Mr. Ashwani Pandey**, a research scholar of ARIES is working under my supervision since May 2015 on the project “Multi-wavelength Studies of TeV Blazars”.
8. **Ms. Vishi Aggrawal**, a research scholar under BRNS-DAE funded project is working under my supervision since April 2016 on the project “Multi-band High Energy Emission from TeV Blazars”. Dr. K. K. Yadav of BARC is his co-supervisor. She left the project in August 2017.
9. **Mr. Teekendra Kumar Sahu**, a research scholar of DDU Gorakhpur University is working under my supervision since July 2017 on the project “Observational studies of Blazars”. I am his co-supervisor.

B. Ph. D. Students (as collaborator)

1. **Mr. Ravi Joshi**, a Ph. D. student of ARIES is working in collaboration with me partially for his Ph. D. thesis project since August 2009 on the project “Probing Central

Engine and Environments of Active Galactic Nuclei (AGNs)”. His Ph. D. supervisor is Dr. Hum Chand of ARIES.

2. **Mr. Prashanth Mohan**, a Ph. D. student of IIA, Bangalore worked in collaboration with me partially for his Ph. D. thesis project since 2010 on the project “Models of Observational Signatures of Black Holes”. His Ph. D. supervisor is Prof. Arun Mangalam of IIA, Bangalore. He has submitted his Ph.D. thesis in November 2013.

C. Post Doctoral Students

1. **Dr. Bharat Kumar Yerra**, a post doctoral fellow of ARIES worked with me during May 2012 – May 2013 on the project “Redshift Estimation for BL Lac Objects”.
2. **Dr. Haritma Gaur**, a post doctoral fellow of ARIES is worked with me during March – August, 2013 on the project “Simultaneous Multi-wavelength Studies of the BL Lac”.
3. **Dr. Prashanth Mohan**, a post doctoral fellow of ARIES is worked with me during October 2014 – September 2015 on the project “Search for QPOs and multiband modeling of Blazars”.
4. **Dr. Alka Misha**, a post doctoral fellow of ARIES is working with me during May 2015 – May 2017 on the project “Optical and Radio Variability of Blazars”.

PROJECT STUDENTS SUPERVISED (M. Sc & B. E./B. Tech)

At Harish–Chandra Research Institute, Allahabad, India

1. **Mr. Ritaban Chatterjee** from Indian Institute of Technology (IIT), Kanpur, India spent about 6 weeks (June–July 2002) at the Institute and did a M. Sc project under my supervision on *Astronomical Image Processing and Stellar Aperture Photometry*.
2. **Mr. Abhay Kumar Gupta** (B. Tech in Information Technology) from Meerut Institute of Engineering and Technology, Meerut, India spent 2 months (July–August 2003) at the Institute and did a project under my supervision on *Online Multi wavelength Database for Blazars*.

At ARIES, Nainital, India

3. **Mr. Mayur Maheshwari** from Indian Institute of Technology (IIT), Kharagpur, India spent about 2 months (May–July 2010) at Institute and did a M. Sc project under my supervision on *Finding QPO in the light curves of GRBs observed by the BAT of the Swift GRB mission*.
4. **Mr. Devesh Kumar Maurya** from Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, India spent about 1 month (June 2011) at Institute and did a M. Sc project under my supervision on *Multiwavelength Cross-correlated Variability of Blazars*.
5. **Mr. Saurabh Bansal** from Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, India spent about 1 month (June 2011) at Institute and did a M. Sc project under my supervision on *Search for Gamma-ray QPOs in GRBs*.
6. **Ms. Megha Rajoria** from Department of Physics and Astrophysics, Delhi University, Delhi, India spent about 2 months (mid May – mid July 2012) at Institute and did a M. Sc project under my supervision on *Statistical Analysis of Optical Intra-day Variability of Active Galactic Nuclei*.

7. **Ms. Vishi Aggrawal** from Department of Applied Physics, Amity University, Noida, India spent about 4 months (February – June 2015) at Institute and did a M. Sc project under my supervision on *Correlation studies between hard and soft X-ray bands in Seyferts galaxies*.
8. **Ms. Yugam Bharti** from Department of Applied Physics, Amity University, Noida, India spent about 4 months (February – June 2015) at Institute and did a M. Sc project under my supervision on *Correlation studies between hard and soft X-ray bands in BL Lac objects*.

TEACHING

At Harish–Chandra Research Institute, Allahabad, India

1. Multi-wavelength Observation and Data Analysis Techniques in academic years 2002 to 2004.

At ARIES, Nainital India

2. In academic session 2008–2009, 2011–2012, 2012–2013 and 2015–2016, I taught basic astronomy, coordinate systems, time, etc.
3. In academic session 2009–2010, 2010–2011 and 2014–2015, I taught extragalactic astronomy (external galaxies, AGNs, GRBs and Supernovae).
4. In academic session 2017–2018, I will teach two courses: (i) Observational Technique and Methodology – I (Optical and IR), (ii) Extra-galactic Astronomy.

At Department of Physics, DDU Gorakhpur University, India

4. In academic session 2010–2011, I taught M. Sc II (Physics) part of special paper Astronomy & Astrophysics II. I taught, basic astronomy, coordinate systems, time and extragalactic astronomy. In academic session 2014–2015, I will again teach the same to M. Sc II (Physics) students.

RESEARCH SUPPORT

1. In 2005 - 2006, my independent project **Simultaneous Multi-wavelength Observations of Blazars** was accepted for funding for 3 years by the **Department of Science and Technology, Government of India** under Fast Track Scientific Project scheme. Approved money was 1.11 million Indian Rupees (**Declined**). I declined the project money because, before approval of the project, I joined TIFR, Mumbai as a visiting fellow and later received an offer for a visiting faculty position in Yunnan National Astronomical Observatories of China (NAOC) / Yunnan Observatory, Kunming, China.
2. My joint Indo–Bulgarian project **Short-Term Optical Variability of Various Classes of Luminous AGNs** is accepted for funding for 3 years (December 2009 – November 2012) by the **Department of Science and Technology, Government of India**. Approved money was ~ 8.1 lakh Indian Rupees (completed).
3. My joint Indo–Ukraine project **Multiwavelength Observations of Blazars** is accepted for funding for 3 years (April 2012 – March 2015) by the **Department of Science and Technology, Government of India**. Approved money is 7.74 lakh Indian Rupees (completed).

4. A joint project with Dr. K. K. Yadav of BARC, Mumbai on **Multiwavelength Flux and Spectral Variability of Blazars on Diverse Timescales** is approved by **BRNS (Board of Research in Nuclear Sciences), Department of Atomic Energy, Government of India** for funding for 3 years (August 2014 – July 2017). I am PI of the project. We have taken 1 Ph. D. student under the project (on going).
5. My joint Indo–Poland project **Observational signature of Super Massive Black Holes: TeV Blazars in Multi-wavelength view** is approved for funding for 3 years (June 2017 – May 2020) by the **Department of Science and Technology, Government of India** (on going).

CONFERENCES/WORKSHOPS ORGANIZED

1. I was LOC and SOC chair of Indo - South Africa Workshop on Astronomy and Astrophysics which was held at ARIES, Nainital during October 30–November 1, 2008.
2. I was SOC member, invited speaker in the international conference on “Multiwavelength Variability of Blazars” which was held at Guangzhou, China during September 22–24, 2010. I chaired an academic session of the conference.
3. I was SOC member, invited speaker in the international conference on “Variability of Blazars: From Jansky to Fermi (VBJF)” which was held at Guangzhou, China during December 13–16, 2012. I chaired an academic session of the conference.

BOOK EDITED

1. I served as one of the guest editors for the international conference proceeding **Multi-wavelength Variability of Blazars**. The conference was held at Guangzhou, China during September 22–24, 2010. The papers were refereed and published in **Journal of Astrophysics and Astronomy** in 2011 as volume 32, numbers 1 & 2.
2. I am one of the guest editors for the international conference proceeding **Variability of Blazars: From Jansky to Fermi (VBJF)**. The conference was held at Guangzhou, China during December 13–16, 2012. The papers were refereed and published in **Journal of Astrophysics and Astronomy** in 2014 as volume 35.
3. I served as the editor of ARIES Annual Report for the financial year 2016–2017.

EXAMINERSHIP

1. In academic session 2010–2011, I made the examination paper of M. Sc II (Physics) of special paper Astronomy & Astrophysics II of DDU Gorakhpur University. I also evaluated all the answer sheets of that paper.
2. In academic session 2010–2011, I was B. Sc III (Physics), practical examiner of one of the college affiliated to DDU Gorakhpur University.
3. In academic session 2011–2012, I was B. Sc III (Physics), practical examiner of one of the college affiliated to DDU Gorakhpur University.
4. In 2012, I was the M. Tech thesis examiner of Mr. Saumitra Krishna of Indian Institute of Information Technology (IIIT), Allahabad. His thesis title was *Systematic Depth Calibration using a Fabricated Optical Binocular Vision Camera*.

5. In 2012, I was the M. Tech thesis examiner of Mr. Ajinkya Bambal of Indian Institute of Information Technology (IIIT), Allahabad. His thesis title was *Photometric Data Analysis of Optical Astronomical Image Data Using Hybrid Parallel Processing*.
6. In academic session 2012–2013, I was B. Sc III (Physics), practical examiner of one of the college affiliated to DDU Gorakhpur University.
7. In academic session 2012–2013, I was B. Sc I (Physics), practical examiner of one of the college affiliated to DDU Gorakhpur University.
8. In 2013, I was the M. Tech thesis examiner of Ms. Shweta Tripathy of Indian Institute of Information Technology (IIIT), Allahabad. Her thesis title was *Development of Hindi Speech Recognition*.
9. In 2013, I was the M. Tech thesis examiner of Mr. Devesh Parmar of Indian Institute of Information Technology (IIIT), Allahabad. His thesis title was *Hand Gesture Recognition based on Joint Angle using Imitation based Learning*.
10. In 2013, I was the M. Tech thesis examiner of Mr. Vivek Vikas of Indian Institute of Information Technology (IIIT), Allahabad. His thesis title was *Development of Learning based Push Recovery of Humanoid*.
11. In 2016, I evaluated Ph.D. thesis of Mr. Shiv Narayan Yadav of Tribhuvan University, Kathmandu, Nepal. The thesis title is *Spatial Orientation of Angular Momentum of Galaxies in the Clusters and Super Clusters*.

REFEREEING

I have reviewed about 60 papers of following journals: Astrophysical Journal (ApJ), Astronomy & Astrophysics (A&A), Astrophysics and Space Science (ApSS), Journal of Astrophysics and Astronomy (JAA), Monthly Notices of the Royal Astronomical Society (MNRAS), Publication Astronomical Society of Japan (PASJ), Research in Astronomy and Astrophysics (RAA), Advances in Space Research (AdSR), Chinese Physics Letters (CPL).

I frequently review telescope time allocation projects for HCT (Himalayan Chandra Telescope), IIA, Bangalore; IGO (IUCAA Girawali Observatory), IUCAA, Pune; and 1.04 meter ST (Sampurnanand Telescope) & 1.3 meter telescope, ARIES, Nainital.

PARTICIPATION IN NATIONAL / INTERNATIONAL MEETINGS

1. *Mini school on Pulsars*, Inter University Center for Astronomy and Astrophysics (IUCAA), Pune, India; February 15–20, 1993.
2. *Indo – US Workshop on AGN and Quasars*, IUCAA, Pune, India; December 6–18, 1993.
3. *Indo – US Workshop on Array Detectors and Image Processing*, IUCAA, Pune, India; November 28 – December 10, 1994.
4. *Indo – US Workshop on Elliptical Galaxies: Structure and Dynamics*, IUCAA, Pune; November 23 – December 7, 1995.
5. *Workshop on Astronomy with Moderate size Optical Telescope*, Uttar Pradesh State Observatory (UPSO), Nainital, India; April 7–9, 1997.

6. *Workshop on Stellar Structure and Evolution*, IUCAA, Pune, India; February 9–13, 1998.
7. *Workshop on Current trends in Infrared Astronomy*, Physical Research Laboratory (PRL), Ahmedabad, India; August 17–20, 1999.
8. *Workshop on Automated Data Analysis in Astronomy*, IUCAA, Pune, India; October 9–12, 2000.
9. *XII Canary Islands Winter School of Astrophysics “Astrophysical Spectropolarimetry”*, Instituto de Astrofísica de Canarias (IAC), Tenerife, Canary Islands, Spain; November 13–24, 2000.
10. *International Symposium on Gamma-ray Astrophysics through Multi-wavelength Experiments: GAME-2001*, Nuclear Research Laboratory (NRL) and High Altitude Research Laboratory (HARL), Bhabha Atomic Research Center (BARC), Mount Abu, India; March 8–10, 2001.
11. *School and Workshop on Distributed Parallel Computing for Physicists*, Harish-Chandra Research Institute (HRI), Allahabad, India; April 11–19, 2002.
12. *School on Synthesis Imaging in Radio Astronomy*, National Center for Radio Astrophysics (NCRA), Tata Institute of Fundamental Research (TIFR), Pune, India; June 2–22, 2003.
13. *An Advanced School on the Physics of Galaxy Formation*, HRI, Allahabad, India; December 16–30, 2003.
14. *Astronomical Society of India Meeting*, Aryabhata Research Institute for Observational Sciences (ARIES), Nainital, India; February 22–24, 2005.
15. *29th International Cosmic Ray Conference (ICRC)* organized by TIFR, Mumbai in Pune University Campus, India; August 03–10, 2005.
16. *3rd ASTROSAT workshop on Active Galactic Nuclei* organized by TIFR, Mumbai in M. L. Sukhadia University, Udaipur, India; December 21–29, 2005.
17. *Computing in High Energy and Nuclear Physics* organized by TIFR, Mumbai in TIFR, Mumbai, India; February 13–17, 2006.
18. *International conference on “The Central Engine of Active Galactic Nuclei”* at Xian, China; October 16–21, 2006.
19. *Radio Astronomy School (RAS–2007)* at NCRA-TIFR, Pune, India; May 14 – July 6, 2007.
20. *Chinese Astronomical Society Meeting* at Center for Astrophysics, Guangzhou University, China; December, 2007.
21. *Indo - South Africa Workshop on Astronomy and Astrophysics* at ARIES, Nainital, India; October 30 – November 1, 2008.
22. *The 3rd IIA-PennState Astrostatistics School* at Vainu Bappu Observatory (VBO), Kavalur of Indian Institute of Astrophysics (IIA), Bangalore, India; July 19–27, 2010.

23. International Conference on *Multiwavelength Variability of Blazars* at Guangzhou, China; September 22–24, 2010.
 24. International Conference on *Rozhen National Astronomical Observatory: Thirty Years Eyes on the Sky* at Smolyan, Bulgaria; September 26–29, 2011.
 25. *2nd theme meeting on Very High Energy gamma-ray astronomy* at BARC, Mount Abu, India; March 29–31, 2012.
 26. International Conference on *Variability of Blazars: From Jansky to Fermi (VBJF)* at Guangzhou, China; December 13–16, 2012.
 27. *International Meeting on Transients and Timing: A Multi-wavelength Approach* at IUCAA, Pune, India; March 4–8, 2013.
 28. National Conference on *Recent Trends in the Study of Compact Objects: Theory and Observation (RETCO – 2013)* at IIT, Guwahati, India; March 11–14, 2013.
 29. A meeting on *Multiwavelength Study of Blazars: Data Acquisition and Theoretical Modeling* at Manipal Center for Natural Sciences, Manipal University, Manipal, India; July 8–9, 2013.
 30. A topical Conference on *Accretion Onto Black Holes* by TIFR, Mumbai at the International Center, Goa, India; September 5–7, 2013.
 31. A National Conference on *High Energy Emission from Active Galactic Nuclei* at University of Kashmir, Srinagar, India; October 7–9, 2013.
 32. A National Symposium on *VHE Gamma-ray Astronomy* at BARC, Mumbai, India; November 25–27, 2013.
 33. A topical Conference on *Hard X-ray Astronomy: ASTROSAT and Beyond* by TIFR, Mumbai at the International Center, Goa, India; September 24–26, 2014.
 34. A Workshop on *Science with LAXPC/ASTROSAT* at TIFR Balloon Facility, Hyderabad, India; December 15–17, 2014.
 35. National Conference on *Recent Trends in the Study of Compact Objects: Theory and Observation (RETCO – II)* at ARIES, Nainital, India; May 6–8, 2015.
 36. Workshop on *Timing and Spectroscopy: Wideband X-ray Astronomy* at TIFR Balloon Facility, Hyderabad, India; January 12–14, 2016.
 37. International Conference on *Jet Triggering Mechanisms in Black Hole Sources* at TIFR, Mumbai, India; January 20–23, 2016.
 38. International Conference on *Evolution Cycles in X-ray Binaries and Active Galaxies* at Kuche, Xinjiang Province, China; August 1–5, 2016.
 39. East Asia VLBI Workshop 2016 at Guiyang, China; November 7–11, 2016.
 40. Observations and Theoretical Studies of AGNs through all Wavelengths at Guangzhou University, China; March 29–30, 2017.
 41. ASTROSAT - A Satellite Mission for Multi-wavelength Astronomy Workshop at ARIES, Nainital, India; August 8–11, 2017.
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OTHER ACADEMIC ACHIEVEMENTS / ACTIVITIES / EXPERIENCE

1. **Total number of citations:** 1830, **H Index:** 26. This information is only based on “Google Scholar” on September 21, 2017.
2. In simultaneous multi-wavelength observing campaign of a particular blazar for an extended period of time, we need observations from several ground and space based telescopes. Such observing campaigns are led by scientists in USA or Europe. I am the first Indian (even first Asian) who got the opportunity to lead one of the campaign during December 11–15, 2009. For the campaign we got ToO (Target of Opportunity) time on the Swift satellite also. The result of the campaign is published (please see paper no. 58 in my publication list).
3. Over 30 invited seminars, lectures at various institutions, universities in India and abroad.
4. Extensive multi-wavelength observing and data analysis experience. I also have expertise in archive data analysis of various ground and satellite based observations.

FELLOSHIP OF PRESTIGIOUS ACADEMICS

1. I was awarded visiting fellowship of Chinese Academy of Sciences (CAS) and visited and worked at Shanghai Astronomical Observatory (SHAO), Shanghai, China during January February, 2015 and June - July, 2015 for a total period of 3 months.
2. I am awarded Visiting Scientist position under CAS - President International Fellowship Initiative PIFI program for one year. I am on sabbatical and working at Shanghai Astronomical Observatory (SHAO), Shanghai, China for the period June, 2016 - May, 2017.

CONTRIBUTION IN ADMINISTRATIVE, DEVELOPMENTAL and MAINTENANCE ACTIVITIES at ARIES, Nainital

1. I worked as in-charge campus networking (laying down optical fiber cables) of our upcoming optical/NIR observatory at Devasthal. The project is successfully completed and commissioned.
2. I worked as in-charge of Aluminizing Plant of ARIES for telescopes present and upcoming at Devasthal. The Aluminizing Plant for coating the mirrors up to diameter 3.6 meter was built and sample coatings of glass pieces were successfully demonstrated at HHV, Bangalore. Aluminizing plant was then transported to our Devasthal site. This is the first project related to our 3.6 meter telescope that has been completed. Its installation is done in August 2014.
3. I was one of the selection committee members of our three computer engineers selection.
4. I served as computer user committee (CUC) member and later as chairman.
5. I served as 1.04 meter telescope time allocation committee chairman for season (October 2009 – December 2011).
6. I am the member of academic committee which is involve in Ph.D. and post doctoral students activities (e.g. selection, review, interview, etc).

7. I served as selection committee member of written and interview board for various administrative posts and scientific assistant posts.
8. I was Vigilance Officer (V.O) of ARIES during July, 2015 - May, 2016.
9. I am currently chairman of KRC (Knowledge Resource Center) (i.e. Library) user committee. I am the editor of ARIES Annual Report 2016 – 2017.

LIST OF PUBLICATIONS

A. In Refereed Journals

2017

90. V. Aggrawal, **A. C. Gupta**, P. J. Wiita, Z. Zhang, K. K. Yadav & S. N. Tiwari, *X-ray Intraday Variability of the TeV Blazar Mrk 421 with Chandra*, **Monthly Notices of the Royal Astronomical Society**, (2017) (Submitted).
89. Y. Li, S. M. Hu, P. J. Wiita & **A. C. Gupta**, *Statistical analysis of variability properties of the Kepler blazar W2R 1926+42*, **Astrophysical Journal**, (2017) (Submitted).
88. B. Ghosal, K. K. Singh, K. K. Yadav, A. K. Tickoo, R. C. Rannot, P. Chandra, M. Kothari, K. K. Gaur, H. C. Goyal, A. Goyal, N. Kumar, P. Marandi, K. Chanchalani, N. K. Agarwal, V. K. Dhar, M. K. Koul, R. Koul, K. Venugopal, C. K. Bhat, N. Chouhan, C. Borwankar, S. R. Kaul, A. Agarwal & **A. C. Gupta**, *Search for very high energy gamma-ray emission from the radio galaxy IC 310 with TAC-TIC during 2012 to 2015*, **New Astronomy**, (2017) (Submitted revised version).
87. P. Kushwaha, **A. C. Gupta**, P. J. Wiita, H. Gaur, E. M. de Gouveia Dal Pino, J. Bhagwan, O. M. Kurtanidze, V. M. Larionov, G. Damljanovic, M. Uemura, E. Semkov, A. Strigachev, R. Bachev, O. Vince, M. F. Gu, Z. Zhang, T. Abe, A. Agarwal, G. A. Borman, J. H. Fan, T. S. Grishina, J. Hirochi, R. Itoh, M. Kawabata, E. N. Kopatskaya, S. O. Kurtanidze, E. G. Larionova, L. V. Larionova, A. Mishra, D. A. Morozova, T. Nakaoka, M. G. Nikolashvili, S. S. Savchenko, Yu. V. Troitskaya, I. S. Troitsky & A. A. Vasilyev, *Multi-wavelength temporal and spectral variability of OJ 287 during and after the December 2015 flare*, **Monthly Notices of the Royal Astronomical Society**, (2017) (arXiv:1709.04957) (In press).
86. **A. C. Gupta**, A. Mangalam, P. J. Wiita, P. Kushwaha, H. Gaur, H. Zhang, M. F. Gu, M. Liao, G. Dewangan, L. C. Ho, P. Mohan, M. Umeura, M. Sasada, A. E. Volvach, A. Agarwal, M. F. Aller, H. D. Aller, R. Bachev, A. Lähteenmäki, E. Semkov, A. Strigachev, M. Tornikoski & L. N. Volvach, *A peculiar multi-wavelength flare in the Blazar 3C 454.3*, **Monthly Notices of the Royal Astronomical Society**, **472**, 788–798 (2017).

85. N. Kalita, **A. C. Gupta**, P. J. Wiita, G. C. Dewangan & K. Duorah,
Origin of X-rays in the low state of the FSRQ 3C 273: Evidence of inverse Compton emission,
Monthly Notices of the Royal Astronomical Society, **469**, 3824–3839 (2017).
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