

Personal Data

Name	Zia ul Haq
Designation	Assistant Professor
Institution	Remote Sensing and GIS Group, Department of Space Science, University of the Punjab, Lahore, Pakistan
E-mail	zia.spssc@pu.edu.pk, zia.spssc@yahoo.com
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Web profiles	Researchgate, Scopus

Career History

Assistant Professor, Department of Space Science, University of the Punjab, Lahore, Pakistan (2010 to date)

Lecturer, Department of Space Science, University of the Punjab, Lahore, Pakistan (2005-2010)

Academic Qualifications

Ph.D. in Space Science, University of the Punjab, Lahore, Pakistan

M.S. in Telecommunications and Computer Networks Engineering, London South Bank University, London, UK

M.Sc. in Space Science, University of the Punjab, Lahore, Pakistan

Research Interests and Working Domains

Faculty of Science: Climate Change, Climate Modeling, Remote Sensing of Atmosphere, Anthropogenic Emissions of Pollutants, Atmospheric Effects on Satellite Radio Links

Faculty of Arts: Calligraphy, Old Kufic Scripts, Turkish Illumination (Tezhip), Applications of Stone Pigments, Gilding

List of International Peer-reviewed Impact Factor Publications

Zia Ul-Haq, Zertasha Ramzan, Salman Tariq, Syeda Adila Batool, Muhammad Ali, Javed Sami, 2017. Comparison of total ozone column observations from space-borne Ozone Monitoring Instrument with ground-based Dobson Ozone Spectrophotometer measurements at an urban location in Indo-Gangetic Basin. *International Journal of Remote Sensing*, 39 (2), 544-564 (Impact Factor: 1.724).

- Zia ul-Haq**, Salman Tariq, Muhammad Ali, Asim Daud Rana, Khalid Mahmood, 2017. Satellite sensed tropospheric NO₂ patterns and anomalies over Indus, Ganges, Brahmaputra and Meghna river basins. *International Journal of Remote Sensing*, DOI: 10.1080/01431161.2017.1283071 (Impact Factor: 1.640).
- Zia ul-Haq**, Salman Tariq & Muhammad Ali, 2017. Spatiotemporal Patterns of Correlation between Atmospheric Nitrogen Dioxide and Aerosols over South Asia. *Meteorology and Atmospheric Physics*, DOI:10.1007/s00703-016-0485-6, (Impact Factor: 1.172).
- Zia ul-Haq**, Salman Tariq, Muhammad Ali, 2017. Spatiotemporal assessment of CO₂ emissions and its satellite remote sensing over Pakistan and neighboring regions. *Journal of Atmospheric and Solar-Terrestrial Physics*, DOI:10.1016/j.jastp.2016.11.001, (Impact Factor: 1.463).
- Zia ul-Haq**, Muhammad Ali, Syeda Adila Batool, Salman Tariq, Zarmina Qayyum, 2016. Emissions quantification of refrigerant CFCs, HCFCs and HFCs in megacity Lahore (Pakistan) and contributed ODPs and GWPs. *Journal of Earth System Science*, 125(6), 1273-1284, DOI:10.1007/s12040-016-0724-8. (Impact Factor: 0.858).
- Zia ul-Haq**, Salman Tariq, Muhammad Ali, Khalid Mahmood, Asim Daud Rana, 2016. Sulphur dioxide loadings over megacity Lahore (Pakistan) and adjoining region of Indo-Gangetic Basin. *International Journal of Remote Sensing*, 37(13), 3021-3041, DOI:10.1080/01431161.2016.1192701. (Impact Factor: 1.640).
- Zia ul-Haq**, Salman Tariq, Muhammad Ali, 2016. Anthropogenic emissions and space-borne observations of carbon monoxide over South Asia. *Advances in Space Research*, 58, 1610-1626 (Impact Factor: 1.409).
- Zia ul-Haq**, Salman Tariq, Muhammad Ali, 2015. Atmospheric variability of methane over Pakistan, Afghanistan and adjoining areas using retrievals from SCIAMACHY/ENVISAT. *Journal of Atmospheric and Solar-Terrestrial Physics*, 135, 161-173, DOI: 10.1016/j.jastp.2015.11.002. (Impact Factor: 1.463).
- Zia ul-Haq**, Salman Tariq, Muhammad Ali, 2015. Tropospheric NO₂ trends over South Asia during the last decade (2004-2014) using OMI data. *Advances in Meteorology*, 959284, 18 (Impact Factor: 1.107).
- Zia ul-Haq**, Asim Daud Rana, Muhammad Ali, Khalid Mahmood, Salman Tariq, Zarmina Qayyum, 2015. Carbon monoxide (CO) emissions and its tropospheric variability over Pakistan using satellite-sensed data. *Advances in Space Research*, 56, 583-595, DOI:10.1016/j.asr.2015.04.026. (Impact Factor: 1.409).
- Zia ul-Haq**, Salman Tariq, Asim Daud Rana, Muhammad Ali, Khalid Mahmood, Shahid Parvez, 2015. Satellite remote sensing of total ozone column (TOC) over Pakistan and neighbouring regions. *International Journal of Remote Sensing*, 36(4), 1038-1054, DOI: 10.1080/01431161.2015.1007255. (Impact Factor: 1.640).
- Zia ul-Haq**, Salman Tariq, Muhammad Ali, Khalid Mahmood, Syeda Adila Batool, Asim Daud Rana, 2014. A study of tropospheric NO₂ variability over Pakistan using OMI data. *Atmospheric Pollution Research*, 5(4), 709-720, DOI: 10.5094/APR.2014.080. (Impact Factor: 1.401).
- Salman Tariq, **Zia ul-Haq**, 2018. Ground Based Remote Sensing of Aerosol Properties over a coastal mega-city of Pakistan. *Advances in Meteorology* (accepted for publication). (Impact Factor: 1.107).

- Syeda Adila Batool, **Zia ul-Haq**, Salman Tariq, Asim Daud Rana, Khalid Mahmood, Muhammad Nawaz Chaudhary, 2018. Temporal and spatial variations of NO₂ over Saudi Arabia and identification of major hotspot areas during 2005-2014 by using satellite data. *Applied Ecology and Environmental Research* (accepted for publication) (Impact Factor: 0.681).
- Salman Tariq, **Zia ul-Haq**, Khalid Mahmood, Asim Daud Rana, 2018. Spatio-Temporal Distributions and Trends Of Aerosol Parameters Over Pakistan Using Remote Sensing. *Applied Ecology and Environmental Research* (accepted for publication). (Impact Factor: 0.681).
- Khalid Mahmood, Syeda Adila Batool, Fiza Faizi, Ch. Muhammad Nawaz, **Zia ul-Haq**, Asim Daud Rana, Salman Tariq, 2017. Bio-thermal effects of open dumps on surroundings detected by remote sensing - influence of geographical conditions. *Ecological Indicators* 82, 131-142, <https://doi.org/10.1016/j.ecolind.2017.06.042> (Impact Factor: 3.898).
- Salman Tariq, **Zia ul-Haq**, Ali Imran, Usman Mehmood, Muhammad Aslam, Kahlid Mehmood, 2017. CO₂ emissions from Pakistan and India and their relationship with economic variables. *Applied Ecology and Environmental Research*, 15(4), 1301-1312, DOI: http://dx.doi.org/10.15666/aeer/1504_13011312. (Impact Factor: 0.50).
- Khalid Mahmood, Adila Batool, Muhammad Nawaz, **Zia ul-Haq**, 2017. Ranking criteria for the assessment of municipal solid waste dumping sites. *Archives of Environmental Protection*. 43 (1), 95-105, DOI 10.1515/aep-2017-0009, Impact Factor 0.919.
- Salman Tariq, **Zia ul-Haq**, Muhammad Ali, 2016. Satellite and ground-based remote sensing of aerosols during intense haze event of October 2013 over Lahore, Pakistan. *Asia-Pacific Journal of Atmospheric Sciences*, 52(1), 25-33. DOI: 10.1007/s13143-015-0084-3. (Impact Factor: 1.611).
- Khalid Mahmood, Syeda Adila Batool, Muhammad Nawaz, **Zia ul-Haq**, 2017. Ranking criteria for the assessment of municipal solid waste dumping sites. *Archives of Environmental Protection*, 43 (1), 97-107. (Impact Factor: 0.919).
- Khalid Mahmood, **Zia ul-Haq**, Syeda Adila Batool, Asim Daud Rana, Salman Tariq, 2016. Application of Temporal GIS to Track Areas of Significant Concern Regarding Groundwater Contamination. *Environmental Earth Sciences*, 75(33), DOI: 10.1007/s12665-015-4844-2. (Impact Factor: 1.765).
- Salman Tariq, **Zia ul-Haq**, Muhammad Ali, 2015. Analysis of Optical and Physical Properties of Aerosols during Crop Residue Burning Event of October 2010 over Lahore, Pakistan. *Atmospheric Pollution Research*, 6, 969-978, DOI:10.1016/j.apr.2015.05.002. (Impact Factor: 1.401).
- Muhammad Ali, Salman Tariq, Khalid Mahmood, Asim Daud Rana, Adila Batool, **Zia ul-Haq**, 2014. A study of aerosol properties over Lahore (Pakistan) by using AERONET data. *Asia-Pacific Journal of Atmospheric Sciences*, 50, 153-162, DOI:10.1007/s13143-014-0004-y. (Impact Factor: 1.611).

Book Chapter

Salman Tariq, **Zia ul-Haq** (2018). Satellite remote sensing of aerosols and gaseous pollution over Pakistan. In Krishna Prasad Vadrevu, Toshimasa Ohara & Chris Justice (Eds.), *“Land Atmospheric Interactions in Asia”*. (a project of NASA and University of Maryland, USA)-Springer Book ISBN 978-3-319-67473-5.

International Conference Papers Presented/Abstracts Accepted

Salman Tariq, **Zia ul-Haq** (2016). *Aerosol optical depth and single scattering albedo variability over Arabian Sea during 2002-2015*. Climate and Ocean: Variability, Predictability and Change (CLIVAR) Open Science Conference, 19-23rd September, 2016, Qingdao, China.

Khalid Mahmood, Muhammad Asim, **Zia ul-Haq** (2015). *GIS-based ground water quality indexing in Lahore residence, Pakistan*. SMPR 2015/ISPRS International Conference on Geo-Information Modeling and Environmental Monitoring, 23-25th November 2015, University of Tehran, Kish International Campus, Kish Island, Iran.

Zia ul-Haq, Asim Daud Rana, Muhammad Ali, Khalid Mahmood, Salman Tariq, Zermina Qayyum (2015). *Carbon monoxide emissions and its spatial and temporal variability over Pakistan and adjoining regions using satellite data*. 3rd International Symposium on Energy Challenges and Mechanics- towards a big picture (Session 07: Energy and Environment), 7-9th July 2015, Aberdeen, Scotland, United Kingdom.

Zia ul-Haq, Salman Tariq, Asim Daud Rana, Khalid Mahmood, Syeda Adila Batool, Abdur Rehman, (2014). *Dubai air show 2013 and spatio-temporal study of elevated levels of tropospheric NO₂ over UAE region by using satellite remote sensing technique*. 2nd International Conference on Environmental Science and Technology (ICOEST '2014), 14-17th May 2014, Side, Antalya, Turkey.

Calligraphic & Illumination Exhibitions

Calligraphic & Illumination Exhibition, 2009	Center for Conservation & Restoration Studies (CCRS), Kucha Pir Sharazi, Lohari Gate, Lahore.
Calligraphic & Illumination Exhibition (Solo), 2010	Lahore City Heritage Museum, Lahore, Pakistan. Collaborated by Lahore Museum.
Calligraphic & Illumination Exhibition (Solo), 2010	Alhamra Art Gallery, The Mall Road, Lahore, Pakistan. Collaborated by Lahore Arts Council.
Calligraphic & Illumination Exhibition, 2011	Alhamra Art Gallery, The Mall Road, Lahore, Pakistan.

Calligraphic & Illumination Exhibition (Solo), 2011

Government Postgraduate College, Gojra, T.T. Singh,
Pakistan.

Professional Trainings

- HCFC's Phase-out and Alternatives, Ozone Cell, Ministry of Climate Change, Lahore, Pakistan
- Satellite Applications in Communications and Remote Sensing, SUPARCO & ISNET, Lahore, Pakistan
- Project and Team Management, Diploma, BSY Group, UK
- Projects in Controlled Environments (PRINCE2), Foundation Certificate, Office of Government Commerce, UK
- Systems analysis and design, BTEC diploma, University of Westminster, London
- Gemstones Identification, Diploma, Pakistan Gems and Jewellery Development Company, Lahore, Pakistan
- Calligraphy & Illumination Course, Center for Conservation & Restoration Studies (CCRS)-NCA, Lahore.
- Oracle-8, data base management, Professional training course, UET, Lahore, Pakistan
- Fundamentals of Digital Signal Processing, Professional training course, Texas Instrument, Birmingham
- Data communications cable installation and testing, City & Guilds certificate, UK Telecommunications Academy
- Optical fibre installation and testing, single mode, City & Guilds certificate, UK Telecommunications Academy
- Network infrastructure installation, Professional training course, CNS, Bandford, UK
- Foundation Economics, Foundation course, London School of Economic Sciences, London, UK
- Optical fibre cable installation and testing, Professional training course, CNS, Bandford, UK
- Network Associate, routing and switching, Professional training course, CORVET Systems, Lahore, Pakistan