

CURRICULUM VITAE

PERSONAL INFORMATION

Name	MAJID NAZEER
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RESEARCH INTERESTS

Remote Sensing; Geographic information Science (GIS); environmental sciences; climate change impacts; water resources; agriculture; atmospheric correction of satellite imagery; coastal and inland water quality parameters modeling; environmental study; air quality monitoring; earth observation datasets and their processing; open source datasets; early detection of oceanic events such as algal blooms.

EDUCATION

Title of qualification	Ph.D. in Photogrammetry and Remote Sensing
Dates (from-to)	August 2012 – March 2016
Name of Institute	The Hong Kong Polytechnic University, Hong Kong
Research title	Water quality monitoring in Hong Kong using remote sensing
CGPA	3.17
Title of qualification	M.S in Meteorology (specialization in Remote Sensing and GIS)
Dates (from-to)	September 2008 – April 2010
Name of Institute	COMSATS Institute of Information Technology, Islamabad, Pakistan
Research title	Environmental Study of Rawal Lake Using Satellite and Secchi Disc Data
CGPA	3.64
Title of qualification	B.S in Space Science
Dates (from-to)	September 2004 – August 2008
Name of Institute	University of the Punjab, Lahore, Pakistan
Research title	Application of Remote Sensing in the field of Glaciology in Pakistan
CGPA	3.40

RESEARCH PROJECT(S) SECURED

- 1) – | Assessment of CO₂ emissions in Pakistan with mitigation options for transitioning towards low carbon development | P.I: Muhammad Imran Shahzad, C.I: **Majid Nazeer** | Foresight Lab, Islamabad Pakistan (**Delivered on November 15, 2018**).
- 2) – | Modeling water clarity of Northern Arabian Gulf using satellite and in situ datasets | P.I: Mohammad Alsahli, C.I: **Majid Nazeer** | Kuwait University, Kuwait (**Delivered on October 15, 2018**).

AWARDS AND ACHIEVEMENTS

- 1) – Winner of the 2018 Best Reviewer Award for the journal *Remote Sensing*.
- 2) – Recognized as one of the top 1 per cent (position # 9) of peer reviewers in “*Geosciences*” by the Publons Peer Review Awards September 2018.
- 3) – Recognized as one of the top 1 per cent (position # 43) of peer reviewers in “*Environment/Ecology*” by the Publons Peer Review Awards September 2018.
- 4) – Recognized for being the 3rd most prolific contributing peer reviewer on Publons for Journal “*Water*” by the Publons Peer Review Awards September 2017.
- 5) – Recognized as one of the top 1 per cent (position # 9) of peer reviewers in “*Earth and Planetary Sciences*” by the Publons Peer Review Awards September 2017.
- 6) – Recognized as one of the top 1 per cent (position # 45) of peer reviewers in “*Environmental Science*” by the Publons Peer Review Awards September 2017.
- 7) – Travel Grant to attend “Sino-Canadian International Forum on Water and Environmental Safety”, kindly provided by the Sino Canada Joint R&D Center on Water and Environmental Safety, Nankai University, China, February 2017.
- 8) – Travel Grant to attend “1st International Forum for Academic Youths and Elites”, kindly provided by the Guangzhou University (GU), China, December 2016 (Declined).
- 9) – Travel Grant to attend “Joint Urban Remote Sensing Event (JURSE 2015)”, kindly provided by the European Space Agency (ESA) and the Swiss Space Center, April 2015.
- 10) – Travel Grant to attend “International Conference on Space 2014 (ICS-2014)”, kindly provided by Inter Islamic Network on Space

Sciences and Technology (ISNET), November 2014.

11) – Travel Grant to attend "Ocean Optics XXII" kindly provided by U.S. National Aeronautics and Space Administration (NASA), October 2014.

12) – Best student paper award at the "Third International Workshop on Earth Observation and Remote Sensing Applications (EORSA-2014), 11 – 14 June 2014, Changsha China".

13) – Travel Grant to attend "ISNET/ISA Workshop on space applications for disaster risk reduction and management", kindly provided by Inter Islamic Network on Space Sciences and Technology (ISNET), September 2013.

14) – Best student paper award at the "ESA-MOST Dragon 3, Advanced training course in ocean remote sensing, 21 – 26 October 2013, Chinese University of Hong Kong, Hong Kong".

15) – The Hong Kong Polytechnic University International Postgraduate Scholarship for Ph.D. studies, August 2012 to August 2015.

16) – Travel Grant to attend "Global Conference on Microbial Contaminants in drinking Water", kindly provided by COMSATS Institute of Information Technology Islamabad, Pakistan, October 2009.

17) – COMSATS Institute of Information Technology Scholarship for Masters studies, September 2008 to April 2010.

PROFESSIONAL EXPERIENCE

Organization	Department of Meteorology, COMSATS University Islamabad, Islamabad Pakistan.
Worked As	Assistant Professor (Tenure Track System)
Period (from-to)	April 2017 – Present
Organization	The Hong Kong Polytechnic University, Hong Kong.
Worked As	Postdoctoral Researcher
Period (from-to)	June 2016 – March 2017
Organization	The Hong Kong Polytechnic University, Hong Kong.
Worked As	Research Assistant
Period (from-to)	August 2015 – April 2016
Organization	King Abdulaziz University, Jeddah, Saudi Arabia.
Worked As	Lecturer
Period (from-to)	December 2011 – July 2012
Organization	The Urban Unit.
Worked As	GIS Research Associate
Period (from-to)	June 2011 – December 2011
Organization	World Wide Fund for Nature (WWF) Pakistan.
Worked As	Remote Sensing & GIS Associate
Period (from-to)	June 2010 – June 2011

TEACHING AND TUTORING

- Taught a postgraduate course "HIS622 Geographical Information Systems for HI" for Fall 2018 semester at the Department of Health Informatics, COMSATS University Islamabad, Islamabad Pakistan.
- Taught a postgraduate course "MET735 Advanced Geo-Statistical Analysis" for Fall 2018 semester at the Department of Meteorology, COMSATS University Islamabad, Islamabad Pakistan.
- Taught a postgraduate course "MET602 Advanced GIS" for Fall 2018, Spring 2018 and Fall 2017 semesters at the Department of Meteorology, COMSATS University Islamabad, Islamabad Pakistan.
- Taught a postgraduate course "MET604 Geo-Statistical Analysis" for Spring 2019 and Spring 2018 semesters at the Department of Meteorology, COMSATS University Islamabad, Islamabad Pakistan.
- Served as Teaching Assistant for course "LSGI3332A-Photogrammetry and Remote Sensing", January-April 2017 at the Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong.
- Served as a Mentor for the undergraduate and postgraduate students to help them in their final year projects, at the Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong.
- Served as Teaching Assistant for course "LSGI4221A-Geostatistics and Exploratory Data Analysis", September-November 2016 at the Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong.

SUPERVISION

From	To	Degree	Student Name	Research Title
Sep, 2018	In progress	M. S.	Fatima Ahsan	Development and validation of a new method for the satellite derived bathymetry
Jan, 2018	Jan, 2019	M. S.	Sana Almas Khan	Evaluation of Sea Water Intrusion Impacts on Lower Indus Deltaic Region (Badin, Sindh) using Geo-Spatial Techniques
Dec, 2017	In progress	M. S.	Hammad Qureshi	Remote Sensing of Atmospheric Visibility over Pakistan
Aug, 2017	Jan, 2019	M. S.	Muhammad Waqas	Remote sensing of barrier islands along the Indus Delta region

JOURNALS MANUSCRIPT REVIEWER

Performed **131** pre-publication reviews for **30** journals including *Remote Sensing of Environment*, *Remote Sensing*, *Ocean and Coastal Management* and *Water*; placing in the **98th percentile** for verified review contributions on Publons up until **21 February 2019**. For a complete list of journals and reviews, please visit my verified peer review records page at <https://publons.com/author/1160151/>

THESES EVALUATED

Date	Degree	Thesis Title	Student Name	University/Institute
Sep 2017	M.S.	Satellite Remote Sensing Mapping of Coral reefs in the Pakistan coastal Ocean: Astola Island, Indus Delta	Amir Iqbal	Department of Space Science, Institute of Space Technology, Islamabad Pakistan.
Dec 2017	M.S.	Identifying Upwelling-related Biogenic Slicks in Northern Arabian Sea using L-band SAR Data	Aaqib Javad	Department of Space Science, Institute of Space Technology, Islamabad Pakistan.

Journal Publications (* represents corresponding author)

- 1) – Elahi, E., Weijun, C., Zhang, H. and **Nazeer, M.** (accepted - in production). Agricultural intensification and damages to human health in relation to agrochemicals: Application of artificial intelligence. *Land Use Policy*. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.194** (Rank 25/109 in 'Environmental Studies', **Q1**).
- 2) – Bilal, M., **Nazeer, M.**, Nichol, J., Qiu, Z., Wang, L., Bleiweiss, M., Shen, X., Campbell, J. and Lolli, S. (2019). Evaluation of Terra-MODIS C6 and C6.1 Aerosol Products against Beijing, XiangHe, and Xinglong AERONET sites in China during 2004-2014. *Remote Sensing*. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.406** (Rank 8/30 in 'Remote Sensing', **Q2**).
- 3) – Waqas, M., **Nazeer, M***, Shahzad, M.I. and Zia, I. (2019). Spatial and Temporal Variability of Open-Ocean Barrier Islands along the Indus Delta Region. *Remote Sensing*, 11 (4), 437. doi: 10.3390/rs11040437. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.406** (Rank 8/30 in 'Remote Sensing', **Q2**).
- 4) – Awais, M., Shahzad, M.I., **Nazeer, M***, Mahmood, I., Iqbal, M.F., Mehmood, S., Yasmin, N., and Shahid, I. (2018). Assessment of Aerosol Optical Properties using Remote Sensing Over Highly Urbanised Twin Cities of Pakistan. *Journal of Atmospheric and Solar-Terrestrial Physics*, doi: 10.1016/j.jastp.2018.04.008. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 1.492** (Rank 61/86 in 'Meteorology & Atmospheric Sciences', **Q3**).
- 5) – Bilal, M., **Nazeer, M.**, Qiu, Z., Ding, X., and Wei, J. (2018). Global Validation of MODIS C6 and C6.1 Merged Aerosol Products Over Diverse Vegetated Surfaces. *Remote Sensing*, 10 (3), 475, doi: 10.3390/rs10030475. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.406** (Rank 8/30 in 'Remote Sensing', **Q2**).
- 6) – Bilal, M., Qiu, Z., Campbell, J., Spak, S., Shen, X., and **Nazeer, M.** (2018). A New MODIS C6 Dark Target and Deep Blue Merged Aerosol Product on a 3 km Spatial Grid. *Remote Sensing*, 10 (3), 463, doi:10.3390/rs10030463. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.406** (Rank 8/30 in 'Remote Sensing', **Q2**).
- 7) – **Nazeer, M.**, and Bilal, M. (2018). Evaluation of Ordinary Least Square (OLS) and Geographically Weighted Regression (GWR) for water quality monitoring: a case study for the estimation of Salinity. *Journal of Ocean University of China*, 17 (2), 305-310. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 0.569** (Rank 56/64 in 'Oceanography', **Q4**).
- 8) – Shahzad, M.I., Meraj, M., **Nazeer, M***, Zia, I., Inam, A., Mehmood, K., and Zafar, H. (2018). Empirical estimation of suspended solids concentration in the Indus Delta Region using Landsat-7 ETM+. *Journal of Environmental Management*, 209, 254-261. doi: 10.1016/j.jenvman.2017.12.070. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 4.005** (Rank 47/241 in 'Environmental Sciences', **Q1**).

- 9) – **Nazeer, M.**, Bilal, M., Alsahli, M.M., Shahzad, M.I. and Waqas, A. (2017). Evaluation of Empirical and Machine Learning Algorithms for Estimation of Coastal Water Quality Parameters. *ISPRS International Journal of Geo-Information*, 6, 360. doi:10.3390/ijgi6110360. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 1.723** (Rank 18/30 in 'Remote Sensing', **Q3**).
- 10) – **Nazeer, M.**, Wong, M.S., and Nichol, J.E. (2017). A new approach for the estimation of phytoplankton cell counts associated with algal blooms. *Science of the Total Environment*, 590–591, 125–138. doi: 10.1016/j.scitotenv.2017.02.182. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 4.610** (Rank 27/241 in 'Environmental Sciences', **Q1**).
- 11) – Bilal, M., **Nazeer, M.**, and Nichol, J.E. (2017). Validation of MODIS and VIIRS derived aerosol optical depth over complex coastal waters. *Atmospheric Research*, 186, 43–50. doi: 10.1016/j.atmosres.2016.11.009. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.817** (Rank 13/86 in 'Meteorology & Atmospheric Sciences', **Q1**).
- 12) – **Nazeer, M.** and Nichol, J.E. (2016). Improved water quality retrieval by identifying optically unique water classes. *Journal of Hydrology*, 541, 1119–1132. doi: 10.1016/j.jhydrol.2016.08.020. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.727** (Rank 7/90 in 'Water Resources', **Q1**).
- 13) – **Nazeer, M.** and Nichol, J.E. (2016). Development and application of a remote sensing-based Chlorophyll-a concentration prediction model for complex coastal waters of Hong Kong. *Journal of Hydrology*, 532, 80–89. doi: 10.1016/j.jhydrol.2015.11.037. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 3.727** (Rank 7/90 in 'Water Resources', **Q1**).
- 14) – Bilal, M., Nichol, J.E., and **Nazeer, M.** (2015). Validation of Aqua-MODIS C051 and C006 Operational Aerosol Products Using AERONET Measurements Over Pakistan. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 9 (5), 2074 - 2080. doi: 10.1109/JSTARS.2015.2481460. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 2.777** (Rank 12/30 in 'Remote Sensing', **Q2**).
- 15) – Butt, M.J. and **Nazeer, M.** (2015). Landsat ETM+ Secchi Disc Transparency (SDT) Retrievals for Rawal Lake, Pakistan, *Advances in Space Research*, 56 (7), 1428–1440. doi: 10.1016/j.asr.2015.06.041. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 1.529** (Rank 123/189 in 'Geosciences, Multidisciplinary', **Q3**).
- 16) – **Nazeer, M.**, and Nichol, J.E. (2015). Combining Landsat TM/ETM+ and HJ-1 A/B CCD Sensors for Monitoring Coastal Water Quality in Hong Kong. *IEEE Geoscience and Remote Sensing Letters*, 12 (9), 1898–1902. doi: 10.1109/LGRS.2015.2436899. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 2.892** (Rank 10/30 in 'Remote Sensing', **Q2**).
- 17) – **Nazeer, M.**, Nichol, J.E. and Yung, Y. (2014). Evaluation of atmospheric correction models and Landsat surface reflectance product in an urban coastal environment. *International Journal of Remote Sensing*, 35 (16), 6271–6291. doi: 10.1080/01431161.2014.951742. Journal indexed in 'Journal Citation Reports' (Thomson Reuters), **Impact Factor (2017): 1.782** (Rank 16/30 in 'Remote Sensing', **Q3**).

Conference Proceedings

- 1) – Ahsan, F., **Nazeer, M.** and Shahzad, M.I. (2019). Satellite derived bathymetry for updating the navigational charts of Pakistan's coast. *3rd Asian Conference on Science, Technology and Medicine*, February 12–14, 2019 Deira Dubai, UAE.
- 2) – Iqbal, A., Qazi, W.A., Shahzad, N. and **Nazeer, M.** (2018). Identification and mapping of coral reefs using Landsat 8 OLI in Astola Island, Pakistan coastal ocean. *14th International Conference on Emerging Technologies (ICET)*, November 21, 2018, Islamabad, Pakistan.
- 3) – Ali, M., Shahzad, M.I., **Nazeer, M.** and Kazmi, J.H. (2018). Estimation of Surface Deformation due to Pasni Earthquake using SAR Interferometry. *Developments, Technologies and Applications in Remote Sensing*, ISPRS TC III Symposium, May 7–10, 2018 Beijing, China.
- 4) – Shahzad, M.I., Zia, I., **Nazeer, M.**, Ali, M., Meraj, M. (2017). Assessment of socio economical impact of coastal erosion and coastal oceanography along Pasni fish harbor and Shadi Kour area. *The 2nd Conference of Digital Belt and Road (DBAR 2017)*, *The 3rd International Conference on Remote Sensing Applications in Tropical and Subtropical Areas (RSATSA 2017)*, 6 - 8 December 2017, The Chinese University of Hong Kong, Hong Kong.
- 5) – **Nazeer, M.**, and Nichol, J.E. (2015). Modeling of Chlorophyll-a concentration for the coastal waters of Hong Kong. *Joint Urban Remote Sensing Event (JURSE 2015)*, 30 March - 1 April 2015, Lausanne, Switzerland. doi: 10.1109/JURSE.2015.7120460
- 6) – **Nazeer, M.**, and Nichol, J.E. (2014). Characterisation of coastal waters of Hong Kong using collocated satellite and in situ datasets for routine water quality monitoring. *International Conference on Space 2014 (ICS-2014)*, 12 – 14 November 2014, Islamabad Pakistan.
- 7) – **Nazeer, M.**, Nichol, J.E., and Yu, S. (2014). Estimation of Chlorophyll-a for coastal waters of Hong Kong by characterizing optically different water types. *Ocean Optics XXII*, 25 – 31 October 2014, Portland Maine USA.
- 8) – **Nazeer, M.**, and Nichol, J.E. (2014). Selection of atmospheric correction method and estimation of Chlorophyll-a (Chl-a) in coastal waters of Hong Kong. *Third International Workshop on Earth Observation and Remote Sensing Applications (EORSA-2014)*, 11 – 14 June 2014, Changsha China. doi: 10.1109/EORSA.2014.6927916
- 9) – Butt, M.J., and **Nazeer, M.** (2009). Water quality assessment of Rawal Lake using satellite remote sensing techniques. *Global Conference on Microbial Contaminants in drinking Water*, 5 –8 October 2009, Singapore.

IN SITU MARINE DATA COLLECTION SURVEYS

- I have been accompanying the Hong Kong Environmental Protection Department on their marine monitoring vessel (*Dr. Catherine Lam*) for about 6 months for the data collection related to coastal water quality parameters, water surface reflectance and aerosol optical

thickness over Hong Kong waters.

- I have been on a research boat to collect the water quality parameters data including Secchi Depth, Chlorophyll-a and Total Phosphorus, for the Rawal Lake Pakistan from 2009 to 2010.

SOCIETY MEMBERSHIPS

- Hong Kong Society of Remote Sensing (HKSRS)
- The Oceanography Society (TOS)
- The Geological Society - Geological Remote Sensing Group (GRSG)

TALKS AND SEMINARS

- Delivered a lecture on "The integration of Geographical Information System (GIS) in Health" on 27 December 2018 at Health Services Academy, Islamabad Pakistan.
 - Gave a talk on "Role of atmospheric correction in coastal water quality parameters estimation" at a seminar on 16 November 2017 at COMSATS University Islamabad, Islamabad Pakistan.
 - Gave a talk on "Water Quality Monitoring Using Remote Sensing" at Sino-Canadian International Forum on Water and Environmental Safety on 23 February 2017, Sino Canada Joint R&D Center on Water and Environmental Safety, Nankai University, Tianjin China.
 - Gave a talk on "Selection of atmospheric correction method and retrieval of coastal water quality parameters" at a seminar on 13 May 2016, Institute of Space Technology, Islamabad Pakistan.
 - Gave a talk on "Application of Remote Sensing for Water Quality Monitoring " at a seminar on 4 May 2016, University of the Punjab, Lahore Pakistan.
 - Gave a talk on "Estimation of Chlorophyll-a with Landsat TM/ETM+ Sensors" at a seminar organized by the Hong Kong Society for Remote Sensing on 15 February 2016, The Hong Kong Polytechnic University, Hong Kong.
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