

CURRICULUM VITAE

AMER MASOOD

Address: 8/A New Gosh-e-Ahbab Society P/o New Campus
Near Tech Society Canal Road Lahore, Pakistan.

E. mail: amerchishti_pu@hotmail.com

Contact No: 0336-4201356



OBJECTIVES AND RESEARCH INTERESTS

To join an academic/research and development organization who offers challenging environment, professional and personal growth in the field of Space Sciences (Remote Sensing/GIS, applications in Geosciences, tectonic geomorphology, hydrological modeling, nonlinear processes and fractals, surface dynamics, erosion modeling and urban planning in the context of landuse/Landcover) and to become a successful and a skilled professional willing to learn from the shared experience of expatriates in your esteemed prestigious organization to achieve the desired organizational goals.

ACADEMIC QUALIFICATION

Ph.D from Department of Space Science, University of the Punjab, Lahore, in Progress.

M.Phil Geomatics, 2013-2015, Institute of Geology, University of Punjab, Lahore.

M.Sc. Master Geomatics (Course Work Studied), September 2008- February 2011 Karlsruhe University of Applied Sciences, Germany.

B.Sc. (Hons.) Space Science, 2003-2007, Department of Space Science, University of the Punjab, Lahore.

F.Sc. Pre Engineering, 2000-2002, DPS& Intermediate College, Model Town, Lahore.

Matriculation. Science Subjects, 1999-2000, Govt, Model High School, Model Town, Lahore.

ACADEMIC AND PROFESSIONAL EXPERIENCE

1. Nominated as Focal person National Enrollment Drive in the Country, **2016** till date, Department of Space Science, University of the Punjab, Lahore.
2. Nominated as Focal person to contact Career Counseling & Placement Centre PU (CC&PC), **2016** till date, Department of Space Science, University of the Punjab, Lahore.
3. Nominated as Laptop Focal person, **2015** till date, Department of Space Science, University of the Punjab, Lahore.
4. Nominated as Focal person of security, **2015** till date, Department of Space Science, University of the Punjab, Lahore.
5. Nominated as Focal person of Young Development Corps (YDC), **2015** till date, Department of Space Science, University of the Punjab, Lahore.
6. Nominated as Chief Organizer /Focal person of Character Building Societies (CBS), **2015** till date, Department of Space Science, University of the Punjab, Lahore.
7. Member departmental admission committee for BS, M.sc and M.phil **2014-2015** Department of Space Science, University of the Punjab, Lahore.
8. Nominated from the department for book fair security committee PU, **2013, 2014** and **2015**.
9. Coordinator for M.sc Programme from **2014** till date, Department of Space Science, University of the Punjab, Lahore.
10. Member Departmental Maintenance committee **2014** till date, Department of Space Science, University of the Punjab, Lahore.
11. Member departmental scholarship committee from **2014** till date, Department of Space Science, University of the Punjab, Lahore.
12. Students Advisor, from April **2014** till date, Department of Space Science, University of the Punjab, Lahore.
13. Department of Space Science Disciplinary committee member, from **2014** till date University of the Punjab, Lahore.
14. Nominated for Research Focal Person (RFP) from the department of Space Science for Office of Research Innovation Commercialization (ORIC) PU, **2014**.
15. Nominated from department for international day for disabilities **2013** and **2014**.
16. Nominated from the department for the admission stall of PU, **2014**.

17. October **2013** till date, working as a Lecturer (on contract) in Department of Space Science, University of the Punjab, Lahore.
18. University research project **2013-2014** as co-investigator.
19. Sixth months working as Assistant to President working group Baba Guru Nanak International University (BGNIU) Evacuee Trust Property Board, Lahore Government of Pakistan, **2008**.

HONOURS

- Got a merit laptop from Government of the Punjab, **2012**.
- Student of the year (Academic Performance) in matriculation from Govt, Model high school model town, Lahore, **1999-2000**.
- 1st position in English Debate competition in matriculation from Govt, Model high school model town, Lahore, **1999-2000**.
- Scoring 1st position in Pioneering project and Distinction from Divisional Boy Scouts Association, Lahore, **1998**.
- Scoring 1st position in camp inspection held during Pakistan Day, Punjab Boy Scouts Association, Lahore, **1998**.
- 1st position in best Urdu handwriting in class 7th from Nobel Grammar School, Model Town, Lahore, **1996**.

RESEARCH WORK/ M.Phil THESIS IN GEOMATICS

“Active deformation in Gilgit-Baltistan region-Pakistan using geomorphic indices analysis: inferences from Remote Sensing and GIS.”

PROJECT WORK IN MASTER GEOMATICS, GERMANY

Working with Digital Elevation Models, Hydrological Modeling, Harmonization of spatial data retrieved from the internet and using them for an IMS, Production and consumption and world trade, International activities of Geomatics faculty, implementation of GIS solution, Smartphone for real-time data acquisition and updating, Development of a Mobile guide system, Digital image processing, supervised image classification, Change detection, Image transformation and fusion, Pixel-based classification of IKONOS imagery, Calculation of Geoid by using Global Gravity Models and State of the art in Satellite Altimetry.

COURSES STUDIED DURING MASTER GEOMATICS, GERMANY

Physical Geodesy & Methods of Gravimetry, Thematic Cartography & GIS Programming, Photogrammetry & Remote Sensing, GIS and Databases, Construction of Spatial models and Topology, Visualisation and Applications of Location Based Services, Satellite Geodesy & Geodetic Monitoring, Visualisation of Spatial Information on the Internet, Multivariate Statistics, Satellite Image Analysis, Software Engineering, GIS- Project and Management , Navigation, Geography of Economics, Statistics and adjustment and Reference systems.

RESEARCH REPORT / PROJECT IN B.SC (Hons)

“Elimination of shadow using Topographic Normalization Technique for Landcover Mapping.”

In my research report / Project I have done

- Rectification of satellite imagery
- Supervised and un-supervised classification of satellite imagery
- Topographic normalization technique to reduce the shadow from the image
- Comparison and analysis of the Landcover obtained before normalization and after normalization.

SEMESTER’S PROJECT WORK IN B.SC (Hons.)

- Digitization of different land features of Model Town area by using Arc GIS 9.0.
- Four months practical work at Pakistan Meteorological Department, Lahore.
- Two months practical work at Space Science Lab to build a Crystal Set (Radio).

COURSES STUDIED IN B.SC (Hons.)

Atmospheric Science, Astronomy and Astrophysics, Ionosphere and Radio Communication, Environmental Science and Space Science Labs, Telecommunications and Satellite communications, Remote Sensing / Image Processing / GIS, Cosmology, Space Plasma, Meteorology and Climatology.

SKILLS

Arc GIS ,Adobe Illustrator, Dreamweaver CS4, Flash,ESRI,s Arc View, Arc Info, Arc IMS, ERDAS Imagine, Microsoft Office (MS Word, MS Excel, MS power point),Map Source, Google Earth, Google Map, Google Sktchup, Java Script, Working with SAS,Complete use of internet/Web GIS,MATLAB Programming, Arc PAD, net environment, Basic Computer Skills and AUTOCAD.

SHORT COURSES/TRAINING/LECTURES/SEMINARS/CERTIFICATION ATTENDED & ARRANGED

1. Arranged a study tour of the students of M.sc, M.phil & BS to Mangla power house dated (28th May 2016), **2016**.
2. Arranged a five days study tour of the students of M.sc & BS to Khanspur for astronomical observations (May 2016), **2016**.
3. Arranged and attended a special Ceremony on 23rd March Resolution Day, at Space Science department, PU, Lahore, **2016**.
4. Arranged and attended a special Event on Green Environment & Earth Day, at Space Science department, PU, Lahore, **2016**.
5. Organized and participated in Annual sports gala of Department of Space Science, PU, Lahore, **2016**.
6. Arranged and offered a Fatiha/Dua for Prof. Dr Muhammad Saleem, at Space Science department, PU, Lahore, **2016**.
7. Attended the International workshop organized by UNESCO and PMD on “Standardizing Flood Forecasting and Warning Approaches in Transboundary Catchments”, (19-20 April 2016) Lahore **2016**.
8. Arranged and attended lecture on RS/GIS Applications in Agriculture, at Space Science department, PU, Lahore, **2016**.
9. Attended the Special Lecture arranged by Pakistan Engineering Congress, on Disasters, Lahore **2016**.
10. Attended the launch of Punjab Gender Parity Report 2016 & Punjab Gender Management Information System organized by The Urban Unit and Punjab Commission on the Status of Women (7 March 2016), **2016**.
11. Arranged and visited a Pakistan Meteorological Department, a one day study visit, at Lahore Centre, **2016**.
12. Arranged and attended a special ceremony on Kashmir Day, at Space Science department, PU, Lahore, **2016**.
13. Arranged and attended in the astronomical observation, at Space Science department, PU, Lahore, **2014, 2015 & 2016**.

14. Arranged and attended a special Lecture on Kashmir Issue, at Space Science department, PU, Lahore, **2016**.
15. Arranged and attended a special lecture on GIS in Broader Health Initiatives, at Space Science department, PU, Lahore, **2016**.
16. Arranged and attended lecture on Remote Sensing Monitoring of Water Quality, at Space Science department, PU, Lahore, **2016**.
17. Arranged and attended special lecture on Effective Time Management, at Space Science department, PU, Lahore, **2016**.
18. Arranged and visited on a study tour of the students of M.sc & M.phil to Suparco Islamabad Campus dated (11th December 2015), **2015**.
19. Arranged and visited on a study tour of the students of Bs 6th & 8th semester to Suparco Kala Shah Kako Campus dated (10th June 2015), **2015**.
20. Arranged and attended lecture on RS/GIS Applications in Water Resources, at Space Science department, PU, Lahore, **2015**.
21. Arranged and attended special lecture on GIS/RS Projects working Methodologies/ Jobs in Middle East, at Space Science department, PU, Lahore, **2015**.
22. Attended the ceremony arranged by PEEF on Celebrating success of PEEF for reaching 100,000 scholarships at Awan-e- Iqbal Lahore, **2015**.
23. Attended 3rd Pakistan Urban Forum December (4-8, 2015) Lahore, **2015**.
24. Arranged and attended an Inaugural Ceremony of First Aid Box by Spacians Health Club at Space Science department, PU, Lahore, **2015**.
25. Attended a two days ISNET/SUPARCO International Workshop on student satellite (02-03 Nov 2015) Lahore, Pakistan **2015**.
26. Arranged and attended a seminar on Geospatial Business-Spatial Junctions NASA Projects, at Space Science department, PU, Lahore, **2015**.
27. Arranged and attended the Special Lecture on the event Anti Corruption (Anti Corruption week December 7-11), at Space Science department, PU, Lahore, **2015**.
28. Attended the event to commemorate International Anti Corruption Day, organized by NAB Lahore, **2015**.
29. Arranged and attended the debate competitions jointly organized by Department of Space Science & Department of Islamic studies, at Space Science department, PU, Lahore, **2015**.

30. Arranged and offered a Fatiha/Dua for Quaid Azam Muhammad Ali Jinnah Barsi, at Space Science department, PU, Lahore, **2015**.
31. Arranged and attended a Commemorative Ceremony for Martyrs of Army Public School Peshawar, at Space Science department, PU, Lahore, **2015**.
32. Arranged and attended Melad on account of 12 Rab- ul- Awal, at Space Science department, PU, Lahore, **2015**.
33. Attended National symposium on expanding horizon for information professionals. Challenges for education and training programmes IMS department PU, Lahore, **2015**.
34. Arranged and attended a one Day Seminar on Exploring Dust and Metals in Diverse Galaxies, at Al Raazi Hall CUGS, PU, Lahore, **2015**.
35. Arranged and attended Lecture series on Extra- Galactic Astronomy (From Milky Way to Big Bang) at Space Science department, PU, Lahore, (19, 20 & 21 October), **2015**.
36. Arranged and attended Lecture series on Extra- Galactic Astronomy (From Milky Way to Big Bang) at Space Science department, PU, Lahore, (26 & 27 October), **2015**.
37. Arranged and attended special Lecture on Extra- Galactic Astronomy (From Milky Way to Big Bang) at Space Science department, PU, Lahore, **2015**.
38. Arranged and attended special Lecture on cool dust in hot cosmos at Space Science department, PU, Lahore, **2015**.
39. Attended a World Space Week from (5-12 October 2015) at Suparco, Lahore, **2015**.
40. Attended a one Day Seminar on Role of Indigenous Cola in Solving Energy Crisis, organized by Centre for Coal Technology, at Al Raazi Hall CUGS, PU, Lahore, **2015**.
41. Attended a one Day National Seminar on Kashmir Dispute: The Past and Future and inauguration of Kashmir cell, arranged by Pakistan Study Centre PU, at Al Raazi Hall CUGS, PU, Lahore, **2015**.
42. Attended a one Day National Seminar on Kashmir Dispute: The Way Forward arranged by Pakistan Study Centre PU, at Al Raazi Hall CUGS, PU, Lahore, **2015**.
43. Arranged and attended an inaugural ceremony of distribution of Space Mag 2014, at Space Science department, PU, Lahore, **2015**.
44. Arranged and attended special lecture on Land Information system, at Space Science department, PU, Lahore, **2015**.
45. Organized and participated in Annual sports gala of Department of Space Science, PU, Lahore, **2015**.

46. Arranged and attended special lecture on Earth Remote Sensing with Synthetic Aperture Radar (SAR), at Space Science department, PU, Lahore, **2014**.
47. Arranged and visited a Pakistan Meteorological Department, a one day study visit, at Lahore Centre, **2014**.
48. Attended and participated in 3–Days National short course on Global Tectonics and Pakistan at Institute of Geology P.U, Lahore, **2014**.
49. Attended and participated New World concept, communicating effectively at IAS P.U, Lahore, **2014**.
50. Attended and participated in Faculty orientation program at IAS P.U, Lahore, **2014**.
51. Attended and participated in 3rd Faculty professional training program at MMG PU Lahore, **2014**.
52. Arranged and attended two days' workshop on CV formation, job hunting, and interview skills at Space Science department, **2014**.
53. Arranged and attended two weeks short course on AutoCAD and GIS, at Space Science department, **2014**.
54. Arranged World GIS day **2014**, with collaboration of Urban Unit GOP.
55. Attended World GIS day **2014**, at ARID University Islamabad.
56. Attended and participated in techno spark at Institute of Chemical Eng. and technology, PU, Lahore, **2014**.
57. Attended and participated in 3rd International conference on GEOS, in Singapore, **2014**.
58. Poster presentation certificate in the 9th International conference on Geomatics for disaster management held at Hanoi, Vietnam, **2013**.
59. Attended and participated in inter-departmental national singing song competition, University of the Punjab, PU Lahore, **2013**.
60. Got a merit laptop and certificate from Government of the Punjab, **2012**.
61. Attended and participated in Germany Today, Karlsruhe University of Applied Sciences (KUAS) Germany, **2011**.
62. Attended and participated in International Law-System and Contracts, KUAS Germany **2010**.
63. Attended and participated in Presentation Techniques, KUAS Germany, **2010**.
64. Attended and participated in Intercultural Management Communication, KUAS Germany, **2010**.

65. Attended and participated in International Marketing, KUAS Germany, **2010**.
66. Attended and participated in German Language, Level A2 (DEUTSCH ALS FREMDSPEACHE 4), KUAS Germany, **2010**.
67. Attended and participated in Lecture Series (The Many Paths to a Unified Europe) KUAS Germany, **2010**.
68. Attended and participated in Geoinformation Management, KUAS Germany, **2010**.
69. Attended and participated in Basic Computer Skills Certificate, IQTM PU Lahore, **2008**.
70. Attended and participated in Total Quality Management Certificate, ISO 17025:2005 Certificate, IQTM PU Lahore, **2008**.
71. Attended and participated in AUTOCAD Certificate, IQTM PU Lahore, **2008**.
72. Attended and participated in MATLAB Programming Certificate, IQTM PU Lahore, **2008**.
73. Participated in annual sports Department of Space Science, PU, Lahore, **2004**.
74. Editorial board member of the departmental annual magazine Space Mag, PU, Lahore, **2004**.
75. Student of the year certificate (Academic Performance) in matriculation from Govt, Model high school model town, Lahore, **1999-2000**.
76. 1st position and certificate in English Debate competition in matriculation from Govt, Model high school model town, Lahore, **1999-2000**.
77. Attended and participated in scouts camp Murree, Lahore Boy Scouts Association Lahore, **1999**.
78. Quid-i-Azam scout Certificate, **1998**.
79. Attended and participated in Divisional Boy Scouts Rally, 07th to 13th November **1998** Lahore.
80. Participated in world polio day nominated from Govt, Model high school model town, Lahore, **1995-1996**.
81. 1st position and certificate in best Urdu handwriting in class 7th from Nobel Grammar School, Model Town, Lahore, **1996**.

SUPERVISION OF RESEARCH THESES

| S.# | Thesis / Report Topic | Students Name | Class | Session |
|-----|---|---|-------------|------------------------|
| 01 | DEM and GIS based surface dynamics in Astore–Northern Pakistan. | <ul style="list-style-type: none"> • Ayesha Anwar • Neelam Javed • Waqas Khalid • Sabahet Ali | B.sc (Hons) | 2010-2014 Completed |
| 02 | Study of different GIS/RS techniques for precise registration of Revenue Massavi maps on satellite image. | <ul style="list-style-type: none"> • Waqar Ahmad • H. M. Tayyab • Abbas Zahid | B.sc (Hons) | 2011-2015 Completed |
| 03 | Precise extraction of village boundary from Revenue Massavi maps using RS/GIS. | <ul style="list-style-type: none"> • Danial Tahir | M.sc | 2013-2015 Completed |
| 04 | Spatial Temporal Analysis of Ground water Quality: A case study of metropolitan area of Lahore | <ul style="list-style-type: none"> • M.Sarmad Umair | M.sc | 2013-2015 Completed |

PERSONAL BIO DATA

| | |
|-------------------|--|
| Father's Name | Muhammad Ali Chishti |
| NIC No | 35301-9260290-1 |
| Date of Birth | 01-01-1985 |
| Religion | Islam |
| Nationality | Pakistani |
| Marital Status | Single |
| Sex | Male |
| Domicile | Okara (Punjab) |
| Permanent Address | 8/A New Gosha-e-Ahbab Society P/ONew Campus near Tech Society Canal Road Lahore, Pakistan. |

LANGUAGES

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|---------|----------------------------|
| Urdu | Fluent (National Language) |
| Punjabi | Fluent (mother tongue) |
| English | Fluent (Official Language) |
| Hindi | Average |
| German | Basic |

INTERESTS & ACTIVITIES

- ❖ Table tennis
- ❖ Scouting
- ❖ Software explorer
- ❖ Creative and research work
- ❖ Traveling and exploring places
- ❖ Presentations
- ❖ Tilawat, Naat and singing
- ❖ Organizer
- ❖ To organize Tours & Sports
- ❖ Editorial board member (Space Mag 2004)
- ❖ English debater (at school Collage & university level)

Journal Publications (HEC Recognized) /Conferences/Posters

Peer-Reviewed Journals

1.A. Masood, S.R. Ahmad, Mahmood, S.A. J. Qureshi, H.M. Rafique and M.S. Khan, Surface Deformation Through Fractal Analysis Of Dem Based Spatial Drainage Patterns In Gilgit-Baltistan Region (Northern Pakistan), in Pakistan Journal of science, Vol. 64 (02), ISSN 0030-9877, pp (108-117),**2012**.

2. J. Qureshi, Mahmood, S.A. A. S. Almas, H.M. Rafique, S.R. Ahmad and **A. Masood**, DEM Based Geomorphic Analysis Along Kalabagh Fault And Potwar Plateau To Constrain Surface Deformation: Inferences From Remote Sensing And GIS; in Pakistan journal of science, Vol. 64 (02), ISSN 0030-9877, pp (163-172), **2012**.

3.S.R Ahmad, Mahmood,S.A, **A. Masood** and J. Qureshi, DEM Based Computation of Topographic Surface Roughness to Reveal Incision Gilgit-Baltistan, Pakistan; in Pakistan journal of science, Vol. 65 (01), ISSN 0030-9877, pp (167-172), **2013**.

4.S.R. Ahmad,U. Ahmad and **A. Masood**, Geo-Spatial Techniques in Selection of Potential Damsite ;in Pakistan journal of science, Vol. 65 (01), ISSN 0030-9877, pp (158-166), **2013**.

5. Syed Amer Mahmood, Jahanzeb Qureshi, Sajid Rashid Ahmad, Javed Sami, **Amer Masood** and Hafiz Muhammad Rafique, Identification of Neotectonics using DEM Based Local Based Level Approach in Potwar plateau; in *Pakistan Academy of Sciences*, 50 (4) ISSN 0377-2969, pp 299-308, **2013**.
6. Syed Amer Mahmood, Hafsa Batool, Zahra Waheed, Aqeela Mobeen Akhtar and **A. Masood**, Investigation of Neotectonics along Hazara Kashmir Syntaxis through Remote Sensing and GIS Analysis; in *International Journal of Recent Development in Engineering and Technology (IJRDET)* (ISSN2347-6435 (online), Volume1, Issue 3, December, **2013**.
7. S.A. Mahmood, U. Alvi, J. Sami, J. Qureshi, **A. Masood** , Sahar Mirza , S.M.H Raza, Active Tectonics Study Using Remote Sensing SRTM DEM: a Case Study: Parachinar Syntaxis – NW Pakistan; in *Geodynamics Research International Bulletin*, ISSN 2345-4997, Vol (1)-No 02, pp 23-34, February, **2014**.
8. S.A. Mahmood, **A. Masood**, J. Qureshi, R.M.A.Khan, Neotectonics of Gilgit-Baltistan: insight from SRTM DEM; in *Geodynamics Research International Bulletin*, ISSN 2345-4997, 3(1): 1-9, S.No.9, June **2015**.
9. S.A. Mahmood, J. Qureshi, **A. Masood**, DEM bases appraisal of Neotectonics in Potwar Plateau- N.Pakistan; in *Geodynamics Research International Bulletin*, ISSN 2345-4997, 2(5): 1-8 **2015**.
10. S.A.Mahmood, I. Murtaza, S.R. Ahmad, **A. Masood**,; DEM Based active deformation in awaran and vicinity Baluchistan (Pakistan), *Geodynamics research international bulletin*, 3(3), **2015**.

CONFERENCES

1. **Amer Masood**, Syed Amer Mahmood, Sadaf Sharif and Jahanzeb Qureshi, Appraisal of neotectonic in Gilgit Baltistan, Northern Pakistan: Inferences from Remote Sensing and GIS ; *in 3rd Annual International Conference on Geological & Earth Sciences (GEOS 2014) to be held on 22 - 23 September 2014 in Singapore.*
2. Jahanzeb Qureshi, Syed Amer Mahmood, **Amer Masood** and Shahid Ghazi, Remote Sensing study of tectonic Geomorphology in Potwar Plateau"; *in 3rd Annual International Conference on Geological & Earth Sciences (GEOS 2014) to be held on 22 - 23 September 2014 in Singapore.*
3. S.A Mahmood, J. Sami, J. Qureshi, **A. Masood**, H. Batool, and Z. Wahid, Remote Sensing and GIS based analysis of neotectonics in Hazara Kashmir region Northern Pakistan; in the 9th International Conference on Gi4DM, Earth Observation for Disaster Management Hanoi, Vietnam, 9-11, **December, 2013.**

POSTERS

1. Hafsa Batool, Zahra Wahid, Syed Amer Mahmood and **Amer Masood**, Investigation of Neotectonics through DEM based Hypsometric Analysis and GIS techniques in Jehlum Valley Pakistan; in the 9th International Conference on Gi4DM, Earth Observation for Disaster Management Hanoi, Vietnam, 9-11, December, **2013.**

REFERENCES:

Prof. Dr. Mujahid Kamran

Vice Chancellor

University of the Punjab, Lahore. Pakistan.

Dr. Syed Amer Mahmood

Chairman/Associate Professor

Department of Space science

University of the Punjab, Lahore, Pakistan.

Jahanzeb Qureshi

Assistant Professor

Department of Space Science

University of the Punjab, Lahore, Pakistan.