



Curriculum Vitae: Muhammad Danish Siddiqui

Personal Information

Nationality: Pakistani
Date of Birth: 8th April, 1987
Place of Birth: Karachi, Pakistan
Sex: Male
Marital Status: Married
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Education

Master of Science (MS) (Remote sensing and GIS), Institute of Space Technology, Pakistan

Passing Year: February, 2017

Master Thesis: Mapping of Seaweed Resources along Karachi coast using Geospatial Techniques **CGPA:** 3.3

Certificate in Remote sensing and GIS, Institute of Space Technology, Pakistan

Passing Year: 2012

Course CGPA: 2.86

Bachelor of Engineering (Telecommunication Engineering), Hamdard University, Pakistan

Passing Year: December, 2010

CGPA: 2.46

Awards

- **Fully funded international GIS Remote Sensing Training at ICIMOD, Kathmandu, Nepal**
Scholarship awarded to the top qualified team for presenting Research proposal and get training on Advanced GIS Remote sensing Techniques in Climate Change applications at ICIMOD Headquarters (2013)
- **Fully funded international Training at Udayana University Bali, Indonesia**

Selected at Pan Ocean Remote Sensing Conference (**PORSEC**) 2014, the 12th Biennial Conference at **Bali, Indonesia.**

- **Master semester scholarship, Institute of space Technology, Pakistan, 2015:** This scholarship is awarded for best performance in semester exam.
- **Received Satellite Imagery Grant (World view -2) WV-2 from Digital Globe**
This Imagery grant were awarded by digital globe on my Master thesis Proposal. They Granted four High Resolution (0.5m) of Karachi coastal area, Pakistan
- **Research Grant from ICIMOD-Association of American Geographer (AAG) 2013**
ICIMOD-AAG Awarded 10 months Fellowship on Research Topic *Vulnerability Assessment of Potential Glacier Lake Outburst Flood event in Passu and Bagrot Valley using Geospatial Techniques.*

Conference and Trainings

- Attended and Presented Research work at Training on **Geographic technologies for climate change in Mountain areas** 17-27, February, 2013, Kathmandu, Nepal
- Attended PORSEC Training on **Ocean Remote sensing** 30th Oct –3rd Nov, 2014, Bali, Indonesia
- Attended Disaster Risk assessment short training (SUPARCO) (Disaster mapping)
- Presented Research Poster at International Conference on Space Technology (Nov 11-14, 2014), Islamabad, Pakistan
- Mangrove for the future Pakistan Training course on project cycle management with emphasis on proposal writing and appraisal (April 17&18, 2014) IUCN.
- IPI,SARC Training workshop on Solar pumping and Drip irrigation system under watershed rehabilitation and irrigation improvement 12-13 May ,2015,Karachi
- Gave Lecture on **Costal resources mapping using Remote sensing Techniques** at IST – SUPARCO, Karachi (7th August, 2015)
- Conducted 5 days training Course on **Advanced GIS Techniques and ArcGIS tool** (December, 2016)

Research Projects

- Shoreline Changes Using Remote Sensing &GIS (Term Project)
Identification of potential fishing zones using satellite remote sensing and GIS
- Techniques Crop Yield Estimation using Remote Sensing & GIS
- Techniques Vegetation Spectral Analysis using Geo Spatial Techniques
- Comparison of Different Image Classification Techniques for Land cover Mapping and Trend Analysis. (Term Project)
- Urban Sprawl Mapping and Land Cover Change Analysis using Remote Sensing and GIS. (Term Project)
- Vulnerability Assessment for Potential Glacial Lakes Outburst Floods (GLOFs) Events in Passu and Bagrot Valley, Karakoram Mountain Range, Pakistan (Funded project by AAG) Temporal Land use /Land cover Mapping of Sindh (Term Project)

- Satellite derived water depth extraction using world views-2 data along Pakistan Coast (Term project)

Research Reports/Publications

- Performance Evaluation of Newly Proposed Seaweed Enhancing Index (SEI) (**Published in Remote Sens. 2019, 11, 1434; doi:10.3390/rs11121434**)
- Seaweed Mapping along Karachi coast using WorldView-2 and Landsat 8 datasets (**Published in Pakistan Journal of Engineering Technology & Sciences (PJETS)**)
- Glacial Lake Outburst Flood (GLOF) risk mapping in Hunza River Basin using Geospatial Techniques RAST 2013, Conference in Turkey (**Published in IEEE Journal, 978-1-4673-6396-9/13**)
- Final Report on Vulnerability Assessment for Potential Glacial Lakes Outburst Floods (GLOFs) Events in Passu and Bagrot Valley, Karakoram Mountain Range, Pakistan (**Published in AAG-ICIMOD Website**)
- Spatio-temporal mapping of Passu Glacial Lake of Hunza River Basin (**manuscript submission**)
- Satellite derived Sea Surface Temperature fronts in relation with Tuna Fish Catch in Exclusive Economic Zone (EEZ) of Pakistan (**Published in Pakistan Journal of Engineering Technology & Sciences (PJETS)**)
- Presented Poster presentation at ICASE Conference, 2013

Skills

Professional skills

Good command of ArcGIS, QGIS, ENVI, eCognition, Erdas Imagine, SeaDas, MS office (Word, Excel, PowerPoint, SharePoint), Hec Ras, Knowledge of Software's (Matlab, Python)

Generic skills

- Strong presentation and team-work skills. Ability to work with people from different cultural backgrounds.
- Skilled at learning new concepts quickly, working well under pressure, communicating ideas clearly and effectively, and working diligently.

Work Experience

- **Research Associate- The Aga Khan University (June 2018 to Present)**
Working on Pakistan National Nutrition Survey

Main Duties

GIS Mapping

Health facility Mapping

Data verification

Spatial Analysis

- **GIS Specialist –Pakistan Railways (September 2017 to May 2018) Worked on Land Management Information system (LMIS)**

Main Duties

Survey Verification

GIS Analysis Office

Management

- **GIS Specialist –Knavix (December 2016 to August 2017)**

Worked on GIS Digitization and Database development for navigation application of Pakistan. In this Project different GIS tools such as Network analysis, Cartography and Digitization tools were using and at the same time learning new techniques and method.

- **Research Assistant–Institute of Space Technology (SUPARCO) (April 2015–July 2016)**

Worked on a Project Stock Assessment of Consumable Seaweed Resources along Karachi coast, which is funded by Mangrove for the future MFF, International Union for Conservation of Nature (IUCN) Pakistan.

Main Duties

GIS mapping of Seaweed Resources

Market Analysis of Consumable Seaweed
Community Based Survey
Boat survey and samples Collection

□ **GIS Surveyor at K-Electric Ltd (April 2016 to June 2016)**

Main Duties

Baseline Survey
Land Parcel Mapping
Geo Referencing

□ **Researcher-MYCOE/SERVIR Himalaya, ICIMOD, AAG (February 2013-December 2013)** Main Duties

Have done fellowship in ICIMOD, Association of American Geographers Project
Helped in preparing the research proposal focusing on climate change in mountain area regions in the Himalayas.

Participated in 2013 MyCOE / SERVIR 10-day Fellowship Program at the International Centre for Integrated Mountain Development (ICIMOD), Katmandu, Nepal

Did hazard mapping of Glacier Lake Outburst Floods (GLOFs) of dangerous lakes in the northern areas of Pakistan.

Conducted field survey of Hunza Valley to validate research findings and prepared survey report Prepared final report of the project and uploaded it at MyCOE / SERVIR website

Referees

- Reference may provide if required.