

Personal Information

Name	Sana Munawar
Place of birth	Pakistan
Date of birth	01.11.1988
Current residence	Trier, Germany
Email contact	munawarsana@gmail.com

Current Occupation

PhD (September 2016)	Trier University, Germany <ul style="list-style-type: none">• Environmental Remote Sensing and Geoinformatics
Project assistant (July 2020)	Project assistant, TAURUS Eco Consulting, Trier, Germany <ul style="list-style-type: none">• Strategic Environmental Assessment• EU Kommunal Kompass funding database

Education

2012 – 2014	Master Environmental Science, Pakistan <ul style="list-style-type: none">• National University of Science and Technology
2008 – 2012	Bachelor Environmental Science, Pakistan <ul style="list-style-type: none">• Fatima Jinnah Women University
2006 – 2008	Higher Secondary School: Ordinary & Advanced Level (CIE), Pakistan

Professional Development

Tutor/Assistent	2019-2022: Tutor, Trier University <ul style="list-style-type: none">• Advanced GIS (summer semester 22)• Introduction to GIS (winter semester 19/20, 20/21, 21/22)• Pattern recognition in long term satellite archives (summer semester 20) 2017-2019: Scientific helper, Trier University
Internship/ Scholarship	2022: DAAD Prize for outstanding achievements of international students 2022: Teaching Assistant Scholarship, Scholarship Foundation for International Students and Young Academics & DAAD, Trier University 2021-2022: Scholarship for excellent students with social commitment, Trier University 2018: NaKuMa Ecological Surveys, Germany <ul style="list-style-type: none">• Mapping of bird migration routes and nesting sites to determine suitable locations for wind turbines 2016: Virtual research intern: Climate Institute, USA <ul style="list-style-type: none">• Content writing on climate change 2016: Animal rights intern: PETA Asia, Phillipine <ul style="list-style-type: none">• Conducting outreach programs• Updating database, data collection 2015: Cross culture intern (Scholarship): Albert-Ludwigs-Universität Freiburg, Germany

	<ul style="list-style-type: none"> Assisted in research activities in the department of Remote Sensing and Landscape Information Systems <p>2015 & 2011: Cleaner production promoter intern: National Cleaner Production Center, Pakistan</p> <ul style="list-style-type: none"> Report writing Community engagement Organizing environmental outreach programs, professional networking
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Research Work

PhD	<p>Time series analysis to monitor land and forest degradation</p> <ul style="list-style-type: none"> Trend estimation: regression/BFAST on MODIS vegetation index (EVI) and Landsat surface reflection derived indices Mapping land change processes Distributed lag modelling: EVI and rain correlation
Master	<p>Thesis</p> <ul style="list-style-type: none"> REDD: Assessment of forest cover and CO₂ emissions in North Pakistan using satellite observations, CO₂ emission inventory and carbon stock data Mann Kendall trend test for MODIS EVI
Bachelor	<p>Thesis</p> <ul style="list-style-type: none"> Chemical chelation and mycoremediation of heavy metal contaminated agricultural soil using EDTA, DTPA, NTA and indigenous fungi <p>Semester projects</p> <ul style="list-style-type: none"> Environmental Impact Assessment of Grand Hayyat Hotel, Islamabad Economic Valuation Assessment of Ayub National Park, Rawalpindi Heavy metal analysis of effluents from Kohi Noor Textile Mills, Rawalpindi

Computer Skills

MS Office (Word, PowerPoint, Excel, Publisher)	Google Earth Engine, Code editor (beginner)
ArcGIS Online/ ArcGIS Pro, QGIS (intermediate)	ENVI (beginner)
Mapping/ cartography (intermediate)	
R, RStudio (intermediate)	

Language Skills

Mother language: Punjabi	Work language: English (Freelance proofreader)
National language: Urdu	Foreign language: German (advanced beginner)

Social Commitment

Environmental	<p>2019: Volunteer at Ecological Baucamp, Speyer, Germany</p> <p>2015: Online volunteer teaching assistance for UN World Student Championship Project for Reforestation</p> <p>2010: Waste management and energy efficiency awareness with local community (Pakistan):</p> <ul style="list-style-type: none"> • Paper recycling project • Household waste management campaign • Organic gardening/tree plantation • Plant inventoring • Weed removal • Utilization of solar energy by local community: solar cooking/water heating
Community	<p>Since 2016: Volunteer at Mutter Rosa Elderly Home, Trier, Germany</p> <p>2018: Charity walk for a union in support of medical research, Trier, Germany</p> <p>2016: Assisting for animal care at local charity, Philippines</p> <p>2016-2018: Child Sponsor by SOS Children's Village, Pakistan</p> <p>2010: Volunteer teaching assistance at SOS Children's Village and Lyceum Grove School, Pakistan</p> <p>2011: Awareness in under privileged community for in house safety, Pakistan</p> <p>2010: Fund raising for flood affected and internally displaced community, Pakistan</p> <p>2009: Assisting in patient care at Military hospital unit, Pakistan</p>
Personal	<p>Language exchange and cultural exchange, Trier</p> <p>Fremde werden freunde: social integration with German families, Trier</p> <p>Cross culture workshop ifa (Institute für Auslandbeziehungen): understanding culture shock, barriers & integration, Stuttgart, Germany</p>