

MUHAMMAD RAMZAN

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OBJECTIVE

Become a good researcher in my field and be a part of an elite team of professionals with good learning and growth opportunities. Programmatically professional with artistic ambition to explore the widening horizon of modern as well as emerging trends, following the paragon of excellence, and touching the heights of glory.

Skills and Expertise

Phytoremediation
Phytoextraction
Fungal Biology
DNA Sequencing
Plant Ecology

EDUCATION

Master of Philosophy in Botany (M.Phil.) August 2018 – 2020

University of the Punjab, 54900 Lahore, Pakistan (<http://www.pu.edu.pk>)

Specialized in Phytoremediation of heavy metals from Paper and Pulp Industrial Effluents by using *Brassica juncea* (Indian Mustard), *Brassica napus* (Canola) and *Brassica campestris* (Common mustard). Studies focused on Soil Sciences, Mycorrhizae in Forestry, DNA Recombinant Technology, Water Resources in Pakistan, Mycosymbiosis and Plant Transformation Technologies.

Master of Science in Botany (M.Sc.) September 2016 – August 2018

Government College University Lahore, Pakistan (<http://www.gcu.edu.pk>)

Specialized in Mycology to Study Morpho-Anatomical and Molecular Characterization of Some Mushrooms of Chadhai Forest, Miandam, Swat Valley, KPK, Pakistan.

Studies focused on Mycology, Plant Tissue Culture, Plant Physiology, Plant Anatomy, Plant Ecology, Ethnobotany, Phycology and Bryology, Biostatistics, Plant Taxonomy, Cell Biology, Genetics and Evolution, Microbiology, Salinity and Waterlogging.

Bachelor of Science (B.Sc.) September 2009 – August 2013

University of the Punjab, 54900 Lahore, Pakistan (<http://www.pu.edu.pk>)

Studies focused on Zoology, Botany and Chemistry. Actively participated in team projects to intern in a Chemical Industry. Served as Chemical Laboratory Assistant for Tahir Asad Chemical Industries, Lahore responsible for assignment like Titration, pH, Bleachability and Moisture Control of Activated Bleaching Clay.

PROJECTS

Phytoremediation Of Heavy Metals from Paper and Pulp Industrial Effluents by using *Brassica juncea*, *Brassica napus* and *Brassica campestris*

During my Philosophical studies in Botany, I worked on Phytoremediation of heavy metals from Industrial Effluents by using hyper accumulative plants *Brassica campestris* (Mustard plant), *B. juncea* (Indian mustard) and *B. napus* (Faisal Canola) by applying Phytoextraction technique and irrigated plants with industrial effluents after calculating physicochemical properties and heavy metal analysis after digestion of plants with the help of Atomic Absorption Spectroscopy (AAS).

Morpho-Anatomical and Molecular Characterization of Some Mushrooms of Chadhai Forest Miandam, Swat Valley, KPK, Pakistan

During my Master Studies, I worked on Morpho-Anatomical and Molecular Characterization of some Mushrooms of Chadhai Forest, Miandam, Swat Valley, KPK, Pakistan by using conventional methods for Morphology, Microscopy of sections for Anatomical studies, DNA sequencing for Molecular studies. The work of this project was presented in 2nd International Conference of Plant Sciences (ICPS-2018), GC University, Lahore.

Diversity and Distribution of Weed Flora in Wheat (*Triticum aestivum* L.) from Barki, Lahore, Pakistan

During my Master studies, I worked on weeds distribution and diversity in *Triticum aestivum* L. I collected 45 weed species which were harmful for the *Triticum aestivum* and lowered the production of wheat from the field and found their Family Importance Value Index (FIVI) by using conventional methods (Quadrat Method) and project was submitted to GC University, Lahore.

Publications

1. Morpho-Anatomical and Molecular characterization of some mushrooms of Chadhai forest, Miandam, Swat Valley, KPK, Pakistan, Muhammad Ramzan and Muhammad Hanif, Proceedings of 2nd International Conference on Plant Sciences, December 5-7, (ICPS-2018) GC University, Lahore, Pakistan.

PROFESSIONAL EXPERIENCE

Elementary School Educator (ESE Science-Math) August 2016- 2021
Government High School, Chachowali, Lahore Pakistan

Worked as a Science teacher in High School to teach Science subjects to secondary high classes.

Teacher Assistant September 2016 – June 2018
Fungal Biology Lab, Government College University, Lahore Pakistan

Worked on Morphology, Anatomy and Molecular Characterization of Mushrooms of by using conventional methods and molecular techniques for identification of mushrooms.

Laboratory Assistant, Summer Internship
Tahir Asad Chemical Industries Limited, Lahore Pakistan.

June 2013 – August 2013

Worked on Chemical Plant of T.A chemical industry as quality control officer, understood the mechanism and chemical processes of Activated Bleaching Clay Manufacturing used for bleaching of cooking oil, lubricants, and crude oil and boiler, reactors, filtration, and drying units. Understood the chemical plant reactions of acid and clay.

HONORS & ACHIEVEMENTS

Awarded Laptop for excellence study performance in M.Sc. Botany at Government College University, Lahore.