

DR. SHEZA AYAZ KHILJI

Assistant Professor (HEC Recognized supervisor)

Contacts:

Department of Botany, University of the Punjab Lahore

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Teach

OBJECTIVE: *To obtain a challenging full time position where I can best utilize my skills. I have always believed that one can excel in any realm of life with devotion, dedication and hardworking.*

ACADEMIC QUALIFICATION

Degree / Certificate	Name of Institution	Year of Completion	Division / Grade / CGPA
Ph.D. Specialization in Environmental Biotechnology	Department of Botany University of the Punjab Lahore	2014	
MS Botany (2-years)	Department of Botany University of the Punjab Lahore	2008	1 st / A / (3.68/4)
B.Sc. (Hons) Botany (4-years)	Department of Botany University of the Punjab Lahore	2006	1 st / B ⁺ / (3.71/4)
HSSC / F.Sc. Pre-Medical	Govt. College for Women, Samanabad, Lahore.	2001	1 st / A
SSC/ Matric Science	Govt. Girls Higher Secondary School, Samanabad, Lahore.	1999	1 st / A

MAIN SUBJECTS STUDIED

B Sc (Hons.) Plant Biochemistry, Principles of Genetics, Gene Cloning, Plant Tissue Culture, Computer, Biostatistics, Cell Biology, Microbial and Molecular Genetics, Plant Ecology, Plant Physiology, Molecular Biology, Mycology (Lower and Higher Fungi), Palynology, Earth Sciences, Phycology and Bryology, Biodegradation and Bioremediation, Bioinformatics, Plant Taxonomy, Evolutionary Trends in Tracheophytes, Environmental Biology, Plant Anatomy, Organic and Inorganic Chemistry, Invertebrate Zoology.

MS Mushroom Cultivation, Soil fertility and Plant Nutrition, Problems in Plant Anatomy, Water Pollution, Fungal biodegradation and Biodeterioration, Plant Breeding and Horticulture, Advanced Biochemistry and Biotechnology, etc.

AWARDS

1. Certificate on account of securing first position in 200m Race in girl's team in the Department of Botany, Punjab University, Lahore.
2. Certificate of Participation in Cricket and Badminton Tournament in the Department of Botany, Punjab University, Lahore.
3. Annual Merit Scholarship from the Department of Botany, Punjab University, Lahore.
4. Merit Scholarship for Ph.D. awarded by Doctoral Program Co-ordination Committee (DPCC), Punjab University, Lahore.
5. Awarded "Indigenous 5000 PhD Fellowship program Batch VII" PIN ID: 117-3229-BM7-076 (50018125) by Higher Education Commission (HEC).
6. Awarded PSF Travel Grant to attend "International Symposium on Biotechnology & other Omics in Vegetable Science" from April 29- May 2, 2012 to be held at Antalya, Turkey
7. Fellowship awarded by Higher Education Commission of Pakistan under International Research Support Initiative Program (IRSIP) (PIN ID: *IRSIP 20 Agri 17*) for 6 months as a visiting research scholar at Department of Environmental Science and Policy, University of California, Davis, USA. From Jun 02, 2012- Nov 22, 2012.
8. Awarded PSF fellowship for PhD studies (one year).
9. Award of Subsistence Allowance to Un-Employed 1st class Graduates under the project "Support to Scientific Talent".
10. Awarded second position in poster competition in the 1st International Seminar on soil health and reclamation approaches (June, 2014), held at College of earth and Environmental Sciences, University of the Punjab, Lahore.
11. Awarded Research Project Grant (150,000/-) vide office order No. D/604/ Est-I, dated 24.02.2015 for the fiscal year 2014-2015 by University of the Punjab.
12. Awarded travel grant by Punjab University (Overseas Scholarship Committee) for oral presentation to attend 2nd International conference on Agriculture, Biological and Environmental Sciences (ICABES) March 28-29, 2015, held at Pattaya, Thailand.
13. Awarded *BEST PAPER AWARD* in oral presentation of research paper titled, "Role of antioxidants and heavy metal uptake from tannery sludge in microbe assisted phytoremediation under field condition" in 2nd International conference on Agriculture, Biological and Environmental Sciences (ICABES), March 28-29, 2015, held at Pattaya, Thailand.

EXPERIENCE

TEACHING

Working as Assistant professor at Department of Botany from October 2014 to date. Teaching to the Undergraduate & Master students on the following Topics.

- Synecology
 - Autecology
 - Anatomy of vascular plants
 - Water Pollution
 - Plant Diversity
 - Ecosystem
 - Environmental Biology
 - Systematics and Biodiversity
- **RESEARCH**
 - **PhD** Research Work;
 - “Role of Aquatic Plants and Indigenous Microbes in Improving Phytoremediation Efficiency of Industrial Sludge”.
 - **MS** Research Work;
 - “Role of Some Selected Hydrophytes in Rhizofiltration of Tannery Sludge Containing Toxic Metals” and obtained prolific results published in the Journals of International repute.

CONFERENCES

ATTENDED

1. Participated in the 2nd Meeting of Nobel Laureates with Pakistani Students/ Young Scholars in Islamabad / Lahore, March 27-31, 2007 (Nominated from the Department).
2. Participated in the *International Symposium on Glycoproteins in Health and Diseases*, (May 27-29, 2008), held in School of Biological Sciences, Punjab University, Lahore.
3. Participated in the 2nd *International Conference on Role Of Chemistry for Environmental Preservation (RCEP 2009) May 2009*. Organized By: The Royal Society of Chemistry UK & THE ENVIRON MONITOR. To be held at Hotel Ambassador, Lahore.
4. One day workshop on “*Florescent Microscopy: Introduction and Applications*”, organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
5. One day seminar on soil health and reclamation approaches (June, 2014), held at College of earth and Environmental Sciences, University of the Punjab, Lahore.

6. Participated in the 3rd *International Conference on Education in Pakistan: Practices & Challenges*”, 06-07th January, 2014. Organized By: University of Education, Lahore.
7. Participated in the “3rd Faculty Training Program” November, 17-21, 2014, in Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore.
8. Participated in the “Active Citizen Program” September, 14-18, 2015, organized by British Council and Higher Education Commission of Pakistan, held at the Institute of Social and Cultural studies, University of the Punjab, Lahore.
9. Participated in the evaluation committee of 4th Invention to Innovation Summit 2015 and performed duty of judge in the exhibition on “Technologies having Potential for Commercialization” March 04-05, 2015, at University of the Punjab, Lahore.

ORAL PRESENTATIONS

1. Bioremediation potential of two hydrophytes for cleaning the toxic tannery sludge.
Presented In: *1st International Conference on Role Of Chemistry for Environmental Preservation (RCEP 2008) June 2008*. Organized By: The Royal Society of Chemistry UK & THE ENVIRON MONITOR. To be held at Hotel Ambassador, Lahore.
2. Bioaccumulation of metals from tannery sludge by *Typha angustifolia* L.
Presented in: *1st International Seminar on Medicinal Plants: Isolation and Applications. (ISMP-2008) (May 20-23, 2008)*, held at Lahore College for Women University, Lahore.
3. Hydrophytes and their Heavy Metal Status in Tannery Effluents and Associated Contaminated Ponds.
Presented in: *2nd International Seminar on Medicinal Plants: Isolation and Applications. (ISMP-2010) (Jan 14-16, 2010)*, held at Lahore College for Women University, Lahore.
4. Multivariate analysis of heavy metal contamination in vegetables and fruits in the vicinity of some industrial areas of the Punjab.
Presented in: “*International Symposium on Biotechnology and Other Omics in Vegetable Science*” (29 April-02 May 2012), held in Antalya-Turkey.
5. Role of antioxidants and heavy metal uptake from tannery sludge in microbe assisted phytoremediation under field condition.
Presented in: “*2nd International conference on Agriculture, Biological and Environmental Sciences (ICABES)*” (March 28-29, 2015), held at Pattaya, Thailand.

POSTER PRESENTATION

1. Rhizofiltration of heavy metals from the tannery sludge by the anchored hydrophyte, *Hydrocotyle umbellata* L.
Presented in: *International Conference of Plant Scientists. (10th National Meeting of Plant Scientists,)* (21-24 April, 2008), held at Department of Botany, Agriculture University, Faisalabad.
2. Efficiency of duckweed (*Lemna minor* L.) in phytotreatment of tannery sludge
Presented in: *1st International Seminar on soil health and reclamation approaches* (June, 2014), held at College of earth and Environmental Sciences, University of the Punjab, Lahore.

INTERNATIONAL PUBLICATIONS

1. **S.A. Khilji**, F. Bareen, M. Nasrullah and S. Ali. 2016. Multivariate analysis of heavy metal contamination in vegetables and fruits in the vicinity of some industrial areas of the Punjab, *Acta Horticulturae*, 1145: 159-178.
2. Sajid, Z.A and Safdar, M and **Khilji, S.A.** 2016. Amelioration of Salinity Stress Tolerance in Pea (*Pisum sativum* L.) by Exogenous Application of Salicylic Acid. *Biologia*, 62 (1), 69-78.
3. **Khilji, S.A** and Bareen, F. 2016. Efficiency of duckweed (*Lemna minor* L.) in phytotreatment of tannery sludge, *Biologia*, 62 (1), 45-55.
4. **Khilji, S.A** and Bareen, F. 2015. Hydrophytes and their Heavy Metal Status in Tannery Effluents and Associated Contaminated Drains, *Journal of innovative Sciences*, 1(2): 1-11.
5. **Khilji, S.A.**, Bareen, F and Sajid, Z.A. 2015. Role of Antioxidants in the Growth and Heavy Metal Uptake from Tannery Sludge in Microbe Assisted Phytoremediation under Field Conditions. *International Journal of Advances in Science and Technology*. Special issue ISSN 2348-5426. pp 10-20.
6. Bareen, F and **Khilji, S. A.** 2008. *Bioaccumulation of metals from tannery sludge by Typha angustifolia* L. African Journal of Biotechnology, ISSN 1684-5315 © 2008 Academic Journals. Vol: 7 (18), pp. 3314–3320.
7. Bareen, F and **Khilji, S. A** 2008. *Rhizofiltration of heavy metals from the tannery sludge by the anchored hydrophyte, Hydrocotyle umbellata* L. African Journal of Biotechnology, ISSN 1684-5315 © 2008 Academic Journals. Vol. 7 (20), pp. 2711–3717.
8. **Khilji, S. A.** and Bareen, F. 2008. *Bioremediation potential of two hydrophytes for cleaning the toxic tannery sludge*. In: Proceedings of the 1st International Conference on Role of Chemistry for Environmental Preservation (RCEP 2008) held on June 14, 2008. (Hussain, M. ed.) 71-78 pp.

PERSONAL DETAILS

Full Name: Sheza Ayaz Khilji
Fathers Name: Ayaz Ahmad Khilji
Date of Birth: 22-12-1983
Religion: Islam

NIC No. 35202-7399593-6

Nationality: Pakistani

Marital Status: Married

SKILLS

- Interpersonal and Communications
- Can effectively use Windows, MS Office & do research oriented Internet surfing
- Equally proficient in English, Urdu and Punjabi
- Scientific equipment handling.

EXTRA & CO - CURRICULAR ACTIVITIES

- Secured 64/100 marks (Percentile 73.17%) in Graduate Assessment Test (GAT)- Subject in 2011.
- Reading and Collecting Research Articles, Current affairs, news etc

INTERPERSONAL SKILLS

- Excellent Presentation Skills
- Adopts to new concepts easily
- Energetic and having potential to handle multiple responsibilities

REFERENCES

- **Prof. Dr. Javaid Iqbal**
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