

# Dr Abdus Salam



## PROFILE

A young soil scientist with over four year's research and management experience. Possess strong analytical and problem-solving skills with the ability to make well thought out decisions. Proven ability in experimentation, soil and plant analysis.

Carrying out the desirable idea of becoming a future professional soil scientist, I have always been giving my best during my studies to acquire a systematic and comprehensive understanding of the fundamentals of soil and environmental sciences. Therefore, I have consistently maintained good academic records. Throughout the entire process in university, I have always combined theory with practice in order to improve my understandings of theoretical knowledge and enrich my hands-on experience. High concentration has been put on achieving wide knowledge not only through the classroom teaching materials but also through other materials such as internet sources. These assisted me largely in gaining the clearer perspective of how to apply the theoretical knowledge to the real activities.

## Objective

Seeking a challenging position with a dynamic organization that welcomes initiative, dedication, and demands excellence in soil and environmental sciences.

## Personal Information

**Date of Birth:** 14<sup>th</sup> Jan 1987

**Place of Birth:**

Buner, Pakistan

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## References:

1. **Prof. Dr. Hongqing Hu**  
Head of Soil Fertility and  
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## Academic Background

|                |                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| June, 2018     | Ph.D. in Soil Science, Huazhong Agricultural University, Wuhan, P.R. China.                                     |
| December, 2013 | Master of Science (Hons) in Soil and Environmental Science, The University of Agriculture Peshawar, Pakistan.   |
| January, 2011  | Bachelor of Science (Hons) in Soil and Environmental Science, The University of Agriculture Peshawar, Pakistan. |
| July, 2006     | Higher Secondary School Certificate, Govt Higher Secondary School Nawagai Buner, Pakistan.                      |
| June, 2003     | Secondary School Certificate, Govt High School Agarai Buner, Pakistan.                                          |

## PhD Dissertation

Biochar mediated lead (Pb) and copper (Cu) stabilization in naturally contaminated paddy soil: mobility and phytoavailability.

## Professional Positions

- **Research associate**

Worked as a research associate in the project entitled: "**Remediation of naturally contaminated soil with various organic and inorganic amendments**" funded by Natural Science Foundation of China (41371470), and National Sci-Tech Support Plan (2015BAD05B02).

## Areas of Expertise

- Biogeochemistry of trace elements
- Chemical and phytoremediation of toxic metal contaminated soils
- Environmental impact assessment and management

## Research and Technical Skills

I have undertaken laboratory practice throughout my time at university and gained experience in using various instruments used in soil and plant analysis. Also, I am familiar with Scanning Electron Microscopy (SEM), Fourier transform infra-red spectroscopy (FTIR), X-ray diffraction (XRD), and zeta potential measurements. I have excellent computer skills and command on statistical softwares such as SPSS, Statistix, and Origin Pro.

## Publications

1. **Abdus Salam**, Sabry M. Shaheen, Saqib Bashir, Imran Khan, Jianxu Wang, Jörg Rinklebe, Fazal Ur Rehman, Hongqing Hu (2019). Rice straw- and rapeseed residue- derived biochars affect the geochemical fractions and phytoavailability of Cu and Pb to maize in a contaminated mining soil under different moisture contents. *Journal of Environmental Management*. 237: 5-14. **(IF. 4.00)**
2. **Abdus Salam**, Saqib Bashir, Imran Khan, Hongqing Hu (2019). Two years impacts of rapeseed residue and rice straw biochar on Pb and Cu immobilization and revegetation of naturally co-contaminated soil. *Applied Geochemistry*; in press **(IF. 3.08)**
3. **Abdus Salam**, Saqib Bashir, Imran Khan, Qaiser Hussain, Hongqing Hu (2019). Biochar induced Pb and Cu immobilization, phytoavailability attenuation and improved biochemical properties in naturally co-contaminated soil. *Journal of Soils and Sediments*. <https://doi.org/10.1007/s11368-019-02250-5>. **(IF. 2.6)**
4. **Abdus Salam**, Saqib Bashir, Imran Khan, Muhammad Shahid Rizwan, Muhammad Afzal Chhajro, Fengxin Wei, Jun Zhu, and Hongqing Hu (2018). Biochars immobilize Pb and Cu in naturally contaminated soil. *Environmental Engineering Science* DOI#10.1089/ees.2018.0086. **(IF. 1.5)**.
5. Saqib Bashir, **Abdus Salam**, Muzammal Rehman, Shahbaz Khan, Allah Bakhsh Gulshan , Javaid Iqbal, Muhammad Shaaban, Sajid Mehmood, Anaam Zahra, Hongqing Hu (2019). Effective Role of Biochar, Zeolite and Steel Slag on Leaching Behavior of Cd and Its Fractionations in Soil Column Study. *Bulletin of Environmental Contamination and Toxicology*. <https://doi.org/10.1007/s00128-019-02573-6>. **(IF. 1.48)**

6. Saqib Bashir, **Abdus Salam**, Chhajro MA, Fu Q, Khan MJ, Zhu J, Shaaban M, Kubar KA, Ali U, Hu H (2018). Comparative efficiency of rice husk derived biochar (RHB) and steel slag (SS) on cadmium (Cd) mobility and its uptake by Chinese cabbage in highly contaminated soil. International Journal of Phytoremediation. DOI: 10.1080/15226514.2018.1448364. **(IF. 1.8)**
7. Saqib Bashir, Muhammad Shahid Rizwan, **Abdus Salam**, Qingling Fu, Jun Zhu, Muhammad Shaaban, Hongqing Hu (2018). Cadmium Immobilization Potential of Rice Straw-Derived Biochar, Zeolite and Rock Phosphate: Extraction Techniques and Adsorption Mechanism. Bulletin of Environmental Contamination and Toxicology. <https://doi.org/10.1007/s00128-018-2310-z>. **(IF. 1.48)**
8. Muhamad Afzal Chhajro, Qingling Fu, Muhammad Shaaban, Muhammad Shahid Rizwan, Jun Zhu, **Abdus Salam**, Kashif Ali Kubar, Saqib Bashir, Hongqing Hu & Ghulam Murtaza Jamro (2017). Identifying the functional groups and the influence of synthetic chelators on Cd availability and microbial biomass carbon in Cd contaminated soil. International Journal of Phytoremediation. DOI: 10.1080/15226514.2017.1337412. **(IF. 1.8)**
9. **Abdus Salam**, Riaz A Khattak, Saeed Ahamd, Nazeer Ahmad. To study the micronutrients status of kowga area District Buner (2013). Pure and Applied Biology. 2(1): 38-41.

## Manuscripts submitted

1. **Abdus Salam**, Saqib Bashir, Imran Khan, Gao Ruili, Hongqing Hu. Characterization of rapeseed residue and rice straw biochars and evaluating their suitability for cationic metals immobilization in contaminated soil **(under review)**

## Conferences Participated

1. 7<sup>th</sup> CRC CARE-China Communication held on May 17, 2015, at Huazhong University of Science and Technology, Wuhan, China.
2. 8<sup>th</sup> CRC CARE-China Communication held on May 17, 2016, at Huazhong University of Science and Technology, Wuhan, China.

3. 3<sup>rd</sup> International Conference on Global Environment Changes and Green Expo held on 21-22 March 2016 by the Department of Environmental Sciences and Engineering, Government College University Faisalabad, Faisalabad, Pakistan.
4. Second International Symposium on Soil Environmental Protection 2017 held on September 2017 at Changsha, China.

## **Peer-Reviewer**

Reviewer in some international journals such as:

- Chemosphere
- Journal of Soils and Sediments
- Pure and Applied Biology