

CURRICULUM VITAE

DR. UMAIR RIAZ

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EDUCATION

- | | |
|-------------|--|
| 2014 - 2017 | Ph.D.
University of Agriculture, Faisalabad, Pakistan,
Major: Soil and Environmental Sciences
Supervisor: Prof. Dr. Ghulam Murtaza |
| 2012 - 2014 | MSc (Hons.)
University of Agriculture, Faisalabad, Pakistan,
Major: Soil Minerology and Soil Chemistry
Supervisor: Dr. Irshad Bibi |
| 2008 - 2012 | BSc (Hons.)
University College of Agriculture and Environmental Sciences,
The Islamia University of Bahawalpur B.A.
Major: Soil Sciences |

ACADEMIC EMPLOYMENT

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|--------------------------------|---|
| May 2016 -
Present | Agricultural Officer (Lab/Quality Assurance),
Soil and Water Testing Laboratory for Research, Bahawalpur |
| September 2014 -
April 2016 | Research Associate
Soil, Water and Environmental Chemistry Lab, Institute of Soil
and Environmental Sciences, University of Agriculture,
Faisalabad, Pakistan,
Higher Education Commission funded Project entitled:
<i>“Evaluation and management of sludge and compost from
different sources for sustainable agriculture”</i> |
| Fall 2015 –
Spring 2016 | Graduate Teaching Assistant/Assistant Instructor,
University of Agriculture, Faisalabad, Pakistan, |

HONORS AND AWARDS

2015 **Best Poster Award (2nd Prize)**

International Conference on Soil Sustainability for Food Security, Institute of Soil and Environmental Sciences, University of Agriculture Faisalabad, Pakistan.

2015 **Best Poster Award (3rd Prize)**

International Conference on Soil Sustainability for Food Security, Institute of Soil and Environmental Sciences, University of Agriculture Faisalabad, Pakistan.

PROFESSIONAL AFFILIATIONS AND SERVICES

Editorial Member

Food Science & Nutrition Technology

Ad-hoc Reviewer

Journal of Agricultural Research

Asian Journal of Agricultural Biology

Professional Organization Member

Soil Science society of Pakistan (SSSP)

Society of Young Agronomist (SOYA)

Pakistan Agricultural Scientist Forum (PAS Forum)

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Riaz, U., G. Murtaza, Saifullah and M. Farooq. 2018. Comparable effect of commercial composts on chemical properties of sandy clay loam soil and accumulation of trace elements in soil-plant system. *International Journal of Agriculture and Biology*. 20(1): 85–92

Riaz, U., G. Murtaza, Saifullah and M. Farooq. 2018. Influence of various sewage sludges and composts on growth, yield and trace element contents in rice and wheat. *Land Degradation and Development* (DOI: 10.1002/ldr.2925)

Riaz, U., Z. Abbas, Q. Zaman, M. Jabeen, S. A. Zulqadar, Z. Javeid, M. Ashraf, S. M. Mehdi. 2018. Evaluation of Ground Water Quality for Irrigation Purposes. A GIS Based Approach in Bahawalpur-Punjab. *Pakistan Journal of Agricultural Research*. (Accepted)

MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW

- Zaman Q., Aslam Z, Chen Y, Rashid M, Khaliq A, Yaseen M, Hussain S, **Riaz U.** 2017. Influence of Zinc Nutrition on Productivity, Kernel Quality and Bio fortification in Rice. *Frontiers in Plant Science* (2nd Revision Submitted)
- Saleem F., **Riaz U.**, Murtaza G, Murtaza, B, Aziz H. 2017. Health Risk Assessment of Trace Metals from Spinach Grown on Compost-Amended. *International Journal of Phytoremediation* (Revision Submitted)
- Zeenat J., Jamil M, **Riaz U.**, Kharal M.A, Sardar A, Ahmed A, Anum W. 2017. Response of various brinjal genotypes against salinity stress at seedling growth stage. *Journal of Agricultural Research.* (Under review).
- Riaz U.**, Abbas Z, Zaman Q, Jabeen M, Zulqadar S. A, Javeid Z, Ashraf M, Shehzada Mehdi S. M. 2017. Evaluation of Ground Water Quality For Irrigation Purposes. A GIS Based Study of Bahawalpur, *International Journal of Agricultural and Biology* (Under review).
- Riaz U.**, Bibi I, Niazi N. K, Murtaza G, Aziz H, 2017. Potassium release kinetics from dioctahedral and trioctahedral minerals under alkaline conditions, *Pakistan Journal of Agricultural Sciences* (Under review).
- Sardar A., **Riaz U.**, Javeed Z, Jamil M, 2017, Screening of Ain seed (*Pimpinella anisum* L.) against salinity. *Journal of Environmental and Agricultural Sciences* (Under review).

CONFERENCE PRESENTATIONS

TALKS

- Riaz, U.**, G. Murtaza, Saifullah, H. Aziz and M. M. Din. (2016). Natural attenuation of Cd, Cu Pb and Zn in two sewage sludge amended soils of contrasting texture measured using rhizon pore water samplers. 16th *Int. Congr Soil Science on Healthy Soils for Food Security*. March 15-17, 2016 Rawalpindi, Pakistan. P. 129
- Riaz U.**, Aziz, H., G. Murtaza, F. Saleem. (2016). Transfer of metal contaminants to spinach crop from two commercial composts applied in light textured soil. *Third International Conference on Global Environmental Changes*. March 21-22, 2016. Government College University Faisalabad. P 41.
- Riaz, U.**, Faheem M, Bibi I, Niazi NK, Murtaza, G, (2014). Phytoavailability of potassium to Zea mays L. grown in agricultural soils with contrasting textures and mineralogy. 15th *International Congress of Soil Science*, 18-20 March 2014, Islamabad.

POSTERS

- Aziz H., **U. Riaz** and Ghulam Murtaza. 2017 Chlorpyrifos degradation in soil as affected by biochar and compost amendments. Advances in Agricultural Resource Management, (ICARM-2017), 5-7 April 2017, Faisalabad. International Conference at the University of Agriculture Faisalabad
- Riaz, U.**, H. Aziz, F. Ijaz and G. Murtaza. 2016. Relative impact of two different untreated sewage sludges on heavy metals accumulation in maize crop. Third International Conference on Global Environmental Changes. March 21-22, 2016. Government College University Faisalabad. P 128.
- Riaz U**, Bibi I, Murtaza, G, Niazi NK Sarfraz, RA, Faheem M. 2014. Evaluating the effect of pH on potassium (K) release rate from mica mineral weathering in alkaline solutions at 25°C. 15th International Congress of Soil Science, Islamabad 18-20 March 2014 (Poster).
- Riaz U.**, H. Aziz, F. Ijaz and G. Murtaza. 2016. Relative impact of two different untreated sewage sludges on heavy metals accumulation in maize crop. Third International Conference on Global Environmental Changes. March 21-22, 2016. Government College University Faisalabad. P 128.
- Aziz, H., **Riaz U.**, Ijaz F., Naveed M., Ameen M. and Murtaza G. 2016. Comparative effect of two types of sewage sludges on heavy metal accumulation in maize. 16th Int. Congr Soil Science on Healthy Soils for Food Security. March 15-17, 2016 Rawalpindi, Pakistan. P. 75.
- Riaz, U.**, G. Murtaza, Saifullah, H. Aziz and M. M. Din. 2016. Natural attenuation of Cd, Cu Pb and Zn in two sewage sludge amended soils of contrasting texture measured using rhizon pore water samplers. 16th Int. Congr Soil Science on Healthy Soils for Food Security. March 15-17, 2016 Rawalpindi, Pakistan. P. 129.
- Naveed, M., Saifullah, S. Bibi, G. Murtaza, A. Arooj and **U. Riaz**. 2016. Altering water regimes effect on cadmium accumulation in rice (*Oryza sativa* L.). 16th Int. Congr Soil Science on Healthy Soils for Food Security. March 15-17, 2016 Rawalpindi, Pakistan. P. 217.

PROFESSIONAL TRAININGS

- Two days training course on *ISO/IEC 17025:2005* conducted by Pakistan National Accreditation Council at Park Lane Hotel, 13-14 July, 2017.
- Two days training course on “*Measurement of Uncertainty*” in ISO/IEC 17025:2005 Pakistan National Accreditation Council at DE Shalimar Hotel, 28-29 October, 2017.

TEACHING EXPERIENCE

INSTRUCTOR OF RECORD

Fall 2015

Spring 2016

Sewage sludge and waste Management

Salt Affected Soils and Their Management, Institute of Soil and Environmental Sciences, University of Agriculture Faisalabad, Pakistan

TEACHING INTERESTS

Lectures: Introduction to Soil Mineralogy, Soil Chemistry, Solid Waste Management, Research Methods/Statistics, Trace metals chemistry, compost and composting.

EQUIPMENT SKILLS

Full command on:-

- a) Gas Chromatography
- b) Atomic Absorption Spectrophotometer
- c) Spectrophotometer
- d) Flame Photometer
- e) EC Meter
- f) pH Meter
- g) ICP-OES
- h) Reverse osmosis filtration plant
- i) Vapor Generator for trace elements analysis
- j) All equipment used in soil, plant, water and fertilizer analysis

COMPUTER SKILLS

- a. Word processing: MS-Word, MS-excel, Word Perfect
- b. Software: Visual Minteq, PHREEQC, Origin Pro, Sigma
- c. Graphics: MS-Power Point, Paint, Corel Draw
- d. Statistical Package: Statistics 8.10, Minitab, Origin Lab, SPSS
- e. Communication: Internet (Global World Information)
- f. Windows Operating System: Win98, Win XP, Win 7, Win 8

REFERENCES

Prof. Dr. Ghulam Murtaza.

Director Academics,

Email: gmurtaza@uaf.edu.pk

Institute of Soil & Environmental Sciences, University of Agriculture, Faisalabad, Pakistan.

Dr. Saifullah,

Email: saifullagoraya@gmail.com

Assistant Professor, Institute of Soil & Environmental Sciences, University of Agriculture, Faisalabad, Pakistan.

College of Public Health, Imam Abdulrahman Bin Faisal University Dammam, Kingdom of Saudi Arabia
Institute for Research and Medical Consultation (IRMC) Imam Abdulrahman Bin Faisal University
Dammam 31441, Kingdom of Saudi Arabia