

ALI FAKHAR

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EDUCATION

Master of Science (MSc.), Applied Life Science (Soil Science)

Feb 2022 – Feb 2024

Gyeongsang National University, South Korea (www.gnu.ac.kr)

Obtained CGPA: 4.3

Bachelor of Science (BSc. Hons), Agriculture (Soil Science)

Jan 2016 – Nov 2019

Sindh Agriculture University, Tandojam, Pakistan (www.sau.edu.pk)

Obtained Percentage 82.4 %

Higher Secondary School (HSSC), Pre- Engineering

Apr 2011 – May 2013

LFHS School, Mirpurkhas, Pakistan

Obtained Percentage 76.2 %

PUBLICATIONS

Impact factor: ~32.16

Published

- Fakhar A.**, Gul B., Rafique M., Ortas I. (2022). Use of biostimulants to increase heavy metal tolerance in cereals. Sustainable Remedies for Abiotic Stress in Cereals. Singapore: Springer Nature Singapore. doi.org/10.1007/978-981-19-5121-3_22
- Afridi M. S., **Fakhar A.**, Kumar A., Ali S., Medeiros F. H. V., Muneer M A., Ali H., and Saleem M. (2022). Harnessing Microbial Multitrophic Interactions for Rhizosphere Microbiome Engineering. Microbiological Research, 127199. doi.org/10.1016/j.micres.2022.127199
- Ahmad H. M., Fiaz S., Hafeez S., Zahra S., Shah A. N., Gul B., Aziz O., Rahman M. U., **Fakhar A.**, Rafique M., Chen Y., Yang S. H., and Wang X. (2022). Plant Growth-Promoting Rhizobacteria Eliminate the Effect of Drought Stress in Plants: A Review. Frontiers in Plant Science, 1965. doi.org/ 10.3389/fpls.2022.875774
- Mahmood M. Z., Bibi S., Shahzad M., **Fakhar A.**, Rafique M., Qayyum A. (2022). Mechanisms of Microbes to Combat Salinity in Soil by Producing Secondary Metabolites. Arabian Journal of Geosciences. 15(1), 1-15. doi.org/ 10.1007/s12517-021-09371-7
- Fakhar A.**, Gul B., Gurmani A. R., Masud S., Ali S., Sultan T., Rafique M., and Rizwan M. (2020). Heavy metal remediation and resistance mechanism of Aeromonas, Bacillus, and Pseudomonas: A review. Critical Reviews in Environmental Science and Technology, 1-48. doi.org/10.1080/10643389.2020.1863112.
- Khatoun z., Huang S., Rafique M., **Fakhar A.**, Kamran M.A., and Santoyo G. (2020). Unlocking the potential of plant growth-promoting rhizobacteria on soil health and the sustainability of agricultural systems. Journal of Environmental Management, 273, 111118. doi.org/10.1016/j.jenvman.2020.111118

Submitted

- Fakhar A.**, Rafique M., Gul B., Galgo S. J. C., Canatoy R. C., and Hayat K. (2024). Insight into Recent Advances of Modified Biochar for Sustainable Agriculture and Environmental Protection, Biochar. [Submitted: BCHA-D-23-00047].
- Fakhar A.**, Lee J. G., Canatoy R. C., Park S. Y., and Kim P. J. (2024). Reducing Ammonia Volatilization by Substituting Urea for Ammonium Sulfate in Rice Paddies in Korea, The Highest NH₃ Emission Intensity Country Among OECD Countries. Science of the Total Environment [Submitted- STOTEN-D-24-00107].
- Fakhar A.**, Kim P. J. (2024) Intensification Beyond Balance: Increasing Agricultural Ammonia Emissions Despite Decreasing Nitrogen Surplus in OECD Countries. Environmental Pollution [ENVPOL-D-24-00077]

4. Abbas A., Gurmani A. R., Ullah S., Mehmood A., **Fakhar A.**, Gul B., Chaudhary H. J., Rafique M., Yong J. W. H. (2023). Effects of chromium (Cr) tolerant *Bacillus xiamenensis* PM14 on growth and Cr uptake in sunflower (*Helianthus annuus L.*). *Ecotoxicology and Environmental Safety*. [Submitted: EES-23-5980].

WORKING EXPERIENCE

1. Senior Researcher 1st Feb- 2024 – Present
Institute of Agriculture and Applied Life Science, Jinju, South Korea
2. Junior Soil Scientist 15th Oct- 2019 – 15thAug- 2021
Tharparkar Farm Services, Mirpurkhas, Pakistan
3. Research Intern, Graduate Internship 30th Jul- 2019 – 6th Sep- 2019
National Agriculture Research Centre, Islamabad, Pakistan
4. Crop Supervisor, Internship 1st Oct 2018 – 31st Dec 2018
Patron Chemical (Pvt) Ltd, Mirpurkhas, Pakistan
5. Crop Supervisor, Internship 1st Mar 2018 – 31st Aug 2018
Nuchem (Pvt) Ltd, Mirpurkhas, Pakistan

HONORS & ACHIEVEMENTS

- **Excellent poster presentation award** by the Korean Society of Soil Science and fertilizer at the 54th General Assembly and Regular Academic Conference (October 2022)
- **Future Global Leaders Project (FGLP) Scholarship** by Gyeongsang National University, South Korea (March 2022-February 2024)
- **2nd position in B.Sc. (Agri) Hons.** at Department of Soil Science, Sindh Agriculture University Tandojam, Pakistan (2020)
- **Higher Education Commission of Pakistan government scholarship** (May 2016 – December 2019)
- **Laptop award** for excellent academic performance by the government of Pakistan (April 2017)

VIRTUAL LEARNING

1. Sustainable Agricultural Land Management by **the University of Florida (2020)**
2. Introduction to GIS Mapping by **the University of Toronto (2020)**
3. Climate Change and Water in Mountains: A Global Concern by **University of Geneva (2020)**
4. Municipal Solid Waste Management in Developing Countries by **École Polytechnique Fédérale de Lausanne (2020)**

CONFERENCES / WORKSHOPS

- **Oral Presentation at 55th General Assembly and Regular Academic Conference 25-27 October 2023, Buan, South Korea**, hosted by the Korean Society of soil science and fertilizer
- **Poster Presentation at Global Soil Security Conference 27-29 June 2023, Seoul South Korea**, hosted by the Korean Society of soil science and fertilizer
- **Poster Presentation at 54th General Assembly and Regular Academic Conference 20-22 October 2022, Jeju Island South Korea**, hosted by the Korean Society of soil science and fertilizer
- **8th International Symposium on Soil Organic matter Conference 26-30 June 2022, Seoul South Korea**, hosted by the Korean Society of soil science and fertilizer
- **Application of Biostatistics in Life Sciences Research-Based Data 18-20 January 2022**, hosted by The University of Haripur
- **Poster Presentation at One Day Symposium on Climate Change and Soil Dynamics 07, December 2021** hosted by The University of Haripur
- **Poster Presentation at International Conference on Climate Resilient Smart Soil Management, 05-07 March 2020** hosted by the Department of Soil Science, The University of Haripur, Pakistan

- **18th International Congress of Soil Sciences, 11-13 February 2020**, hosted by Sindh Agriculture University, Tandojam, in with collaboration the Soil Science Society of Pakistan

VOLUNTEER WORK

- **Model Presentation Organizer** at One Day Symposium on Climate Change and Soil Dynamics 07, December 2021 by The University of Haripur (2021)
- **Online-Voluntarily work** for different organizations through the GivingWay Online Fundraising platform

LANGUAGE

English
Urdu
Hangul

SKILLS

MS-Office (Word, Excel, PowerPoint)

IBM SPSS

Sigma Plot 14.50

OriginLab Pro

RStudio

Adobe Photoshop (CS5)

Scientific Writing

Biorender

C Language

Star

ArcGIS