

CURRICULUM VITAE

DR. FAISAL MEHMOOD

(Gold Medalist & Silver Medalist)

(Impact Factor: 27.867)



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PERSONAL

Father's Name : Abdul Ghafoor
Date of Birth : 8th March 1985
Marital Status : Married
C.N.I.C No. : 42501-0289504-1
Nationality : Pakistani
Domicile : District Karachi (Urban)
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PROFESSIONAL EXPERIENCE

Sep., 2019 - Present: Assistant Professor, Department of Farm Power & Machinery, Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam.

May., 2014–August, 2019: Lecturer, Department of Farm Power & Machinery, Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam.

October, 2013 –April, 2014: Research Officer, International Water Management Institute Pakistan (Sindh On-farm Water Management Additional Financing Project).

Dec, 2012 – Sep, 2013: Junior Engineer, G3 Engineering Consultants Pvt Ltd Pakistan (Sindh On-farm Water Management Additional Financing Project).

Feb, 2011 - June, 2012: Junior Field Engineer in MMP (Mott Mac Donald Pvt) Consultants, Badin (National Program of Improvement of Watercourses Project).

ACADEMIC QUALIFICATION

Ph.D. in Agriculture Water Soil Engineering from Graduate School of Chinese Academy of Agricultural Sciences (2019); Thesis title: Effect of different irrigation scheduling and

irrigation methods on the greenhouse gas emissions from winter wheat field in the North China Plain”.

M.E (Agriculture) in Land and Water Management from SAU, Tandojam (2013); Thesis title: Determination of hydraulic properties of soils using numerical models.

B.E. (Agriculture) from SAU, Tandojam (2010); Project title: Comparison between continuous leaching and intermittent leaching methods for the reclamation of saline soil.

AWARDS / ACHIEVEMENTS

Gold Medal for securing 1st Class 1st Position in B.E. (Agriculture), Faculty of Agricultural Engineering in regular examination.

Silver Medal for securing 1st Class 1st Position in M.E (Agriculture), Faculty of Agricultural Engineering in regular examination.

TRAINING/WORKSHOP/CONFERENCE

1. Two months training workshop on “**27th Master Trainers Faculty Professional Development (MT-FPDP)**” organized by HEC Islamabad organized by Learning Innovation Division Higher Education Commission of Pakistan held on March-April, 2016.
2. Two days’ workshop on “**Career Orientation**” organized by USAID (United States Agency for International Development) in collaboration with Sindh Agriculture University, Tando Jam on Sep 16-18, 2015.
3. Full day training on workshop on “**Presiding Officers & Senior Assistant Presiding Officers Local Government Elections, Sindh 2015**” organized by the Election commission of Pakistan on November 08, 2015.
4. One day workshop on “**Environment Aspects/ Safeguard**” organized by Committee for Safeguard Environmental Aspects Directorate On-Farm Water Management Sindh Hyderabad on March 27, 2013.
5. Two days’ workshop on “**Second Regional Workshop on Sustainable Water Management**” organized by the Faculty of Agricultural Engineering, Sindh Agriculture University, Tando Jam, National Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro and Mehran University of Engineering and Technology, Jamshoro, Pakistan, in collaboration with Exter University, UK and sponsored by the DelpHE project through British Council, Karachi on August 4-5, 2009.

SUPERVISOR / CO-SUPERVISOR OF UNDERGRADUATE STUDENTS

Completed

- Effect of conventional tillage and zero tillage on soil physicochemical properties for growing mustard crop.
- Economical evaluation of conventional tillage and zero tillage for growing mustard crop.

SUPERVISOR / CO-SUPERVISOR OF POST GRADUATE STUDENTS

Under process

- Effect of reduced tillage and conventional tillage with different irrigation scheduling on soil physical properties, growth, and yield of wheat crop.

SUBJECTS TAUGHT TO UNDERGRADUATE AND POSTGRADUATE STUDENTS

Undergraduate

(1) Metallurgy & Workshop Practices (2) Engineering Drawing & Graphics (3) Farm Machinery (4) Farm Mechanization (FASS)

Postgraduate

(1) Workshop Organization and Management (2) Agriculture Machinery Management

PUBLICATIONS

Total Impact Factor: 27.867

1. **Mehmood, F.**, Wang, G., Gao, Y., Liang, Y., Zain, M., Rahman, S.U., Duan, A., 2021. Impacts of Irrigation Managements on Soil CO₂ Emission and Soil CH₄ Uptake of Winter Wheat Field in the North China Plain. *Water* 13, 2052 (**SCI: Impact Factor: 3.103**).
2. Rahman, S.U., Xuebin, Q., Yasin, G., Cheng, H., **Mehmood, F.**, Zain, M., Shehzad, M., Ahmad, M.I., Riaz, L., Rahim, A ., 2021. Role of silicon on root morphological characters of wheat (*Triticum aestivum* L.) plants grown under Cd-contaminated nutrient solution. *Acta Physiologiae Plantarum* 43, 1-13 (**SCI: Impact Factor: 2.354**).
3. Zain, M., Si, Z., Li, S., Gao, Y., **Mehmood, F.**, Rahman, S.-U., Mounkaila Hamani, A.K., Duan, A., 2021. The Coupled Effects of Irrigation Scheduling and Nitrogen Fertilization Mode on Growth, Yield and Water Use Efficiency in Drip-Irrigated Winter Wheat. *Sustainability* 13, 2742 (**SCI: Impact Factor: 3.251**).
4. Ur Rahman, S., Xuebin, Q., Zhao, Z., Du, Z., Imtiaz, M., **Mehmood, F.**, Hongfei, L., Hussain, B., Ashraf, M.N., 2021 . Alleviatory effects of Silicon on the morphology, physiology, and antioxidative mechanisms of wheat (*Triticum aestivum* L.) roots under cadmium stress in acidic nutrient solutions . *Scientific Reports* , 11, 1-12. (**SCI: Impact Factor: 4.379**).
5. Hamani, A. K. M., Wang, G., Soothar, M. K., Shen, X., Gao, Y., Qiu, R., & **Mehmood., 2020.** Responses of leaf gas exchange attributes, photosynthetic pigments and antioxidant enzymes in NaCl-stressed cotton (*Gossypium hirsutum* L.) seedlings to exogenous glycine betaine and salicylic acid. *BMC Plant Biology*. 20 (1), 434. (**SCI: Impact Factor: 4.215**).

6. Xuebin, Q., Tariq, A., Zhao, Z., Ashraf, M., Jiabin, C., & **Mehmood, F.** 2020. Silicon attenuates acidic and alkaline stress in wheat plant by improving nutrient availability, membrane stability index and antioxidant defense system. *International Journal of Agriculture and Biology*, 24(3), 553-562 (**SCI: Impact Factor: 0.822**).
7. Si, Z., Zain, M., **Mehmood, F.**, Wang, G., Gao, Y., & Duan, A. 2020. Effects of nitrogen application rate and irrigation regime on growth, yield, and water-nitrogen use efficiency of drip-irrigated winter wheat in the North China Plain. *Agricultural Water Management*, 231, 106002. 562 (**SCI: Impact Factor: 4.516**).
8. UR RAHMAN, S., Qi, X., Zhang, Z., Ashraf, M., Du, Z., Zhong, Y.L., **Mehmood, F.**, Ur Rahman, S., Shehzad, M. 2020. THE EFFECT OF SILICON FOLIAR AND ROOT APPLICATION ON GROWTH, PHYSIOLOGY, AND ANTIOXIDANT ENZYME ACTIVITY OF WHEAT PLANTS UNDER CADMIUM TOXICITY. *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH* 18(2), 3349-3371. (**SCI: Impact Factor: 0.711**).
9. **Mehmood, F.**, Wang, G., Gao, Y., Liang, Y., Chen, J., Si, Z., Duan, A. 2019. Nitrous oxide emission from winter wheat field as responded to irrigation scheduling and irrigation methods in the North China Plain. *Agricultural Water Management*, 222, 367-374 (**SCI: Impact Factor: 4.516**).
10. Siyal, A., **Mehmood, F.**, & Siyal, A. 2014. ESTIMATING HYDRAULIC PROPERTIES OF SOME SOIL SERIES OF SINDH. *Pakistan Journal of Agriculture, Agricultural Engineering and Veterinary Sciences*, 30 (2), 205-215.
11. Tagar, A., Siyal, A., Brohi, A., & **Mehmood, F.** 2010. Comparison of continuous and intermittent leaching methods for the reclamation of a saline soil. *Pakistan Journal of Agriculture, Agricultural Engineering and Veterinary Sciences*, 26 (2),

CONFERENCES/WORKSHOPS

- **Mehmood, F.**, Wang, G., Gao, Y., Liang, Y., Chen, J., Si, Z., Zain, M., Duan, A., 2019. “Effect of irrigation management in mitigating soil GHG emissions from the winter wheat field in the North China Plain”. Paper presented in 1st International conference on Agricultural Engineering and Technology (ICEAT-2019) organized by Faculty of Agricultural Engineering, Tandojam, Pakistan.

MEMBERSHIP

Lifetime Member of Pakistan Engineering Council (PEC). (Registration No. AGRI/3210)

COMPUTER SKILLS

- 1 SPSS software.
- 2 AutoCAD software
- 3 LATEX and Endnote software.
- 4 RETC and HYDRUS-1D Model’s software.
- 5 Microsoft Office.
- 6 Internet & Browsing.

LINGUISTIC ABILITIES

- English
- Urdu
- Sindhi

References

- 1. Prof. Dr. Khalil Ahmed Ibupoto**
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- 2. Prof. Dr. Naimatullah Leghari**
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- 3. Prof. Dr. Altaf Ali Siyal**
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