

Address: C/O Dr. Rehana Naz Syed
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IMRAN ALI LAKHIAR

Career Objectives: Seeking Opportunity in a Prestigious and well-reputed organization, where I will use my professional experience, skills and work for the prosperity of the organization.



EDUCATION

- **Mehran UET University Jamshoro, Pakistan**
Passed in 1st division
Master of Engineering in Hydraulics and Irrigation Engineering, 2016.
Thesis Title: Study of soil, water and cropping pattern of Danster wah command area using satellite data.
- **Sindh Agriculture University Tandojam, Pakistan**
Passed in 1st division
Bachelor of Agricultural Engineering, 2014.
Thesis Title: Estimation of area under major crops in district Hyderabad using geo-referenced filed and satellite data.
- **Board of Intermediate and Secondary Education Larkana, Pakistan**
Passed in 1st division
Intermediate (Pre-Engineering) 2009.
Metric (Pre-Science) 2007.

AREA OF INTREST

- Land Water Management
- Irrigation and Drainage
- Energy and Environment
- Farm Structural
- Farm Power Machinery
- Post-Harvesting Technology
- Soilless cultivation (Hydroponics, Aeroponics and solid particles)

PROFESSIONAL EXPIRIENCE

September 2016 to December 2019

Worked as researcher in Atomization Lab at Institute of Agricultural Equipment Engineering, Jiangsu University, China.

July 2014 to June 2016

Worked as Post-graduate researcher in Land and Water Management Lab at Institute of Water Resources Engineering Management, Mehran UET Jamshoro, Pakistan.

March 2014 to September 2016

Worked as Agriculture Engineer in South Asian Conservation Agriculture Network (SACAN Services), Pakistan project under IUCN assisted mini pilot project on Cost Effective Interventions for Enhancing Water Productivity in Stressed Area outside Indus Basin of Pakistan.

January 2014 to March 2016

Worked as a trainee Agricultural Engineer at Kotri Barrage Division Jamshoro under the title of water flow measurement of Kotri Barrage.

TRAINING COURSES/ WORKSHOP

- Training on Dream to succeed; together we can at Jiangsu university, organized by overseas education college, Jiangsu university, China. December 13 & 14 2018.
- Training on Entrepreneurship & Basic Supervision of Construction Projects at Mehran UET Jamshoro, organized by Pakistan Engineering council. March 16, 2016.
- Training on Demonstration of Tensiometers in Sindh Area at DRIP, Tandojam, Organized by: DRIP, PCRWR, Tandojam. January 06, 2016.
- Training on Design & Installation of Drip Irrigation Systems at Hyderabad, Organized by: Pakistan Agricultural Engineering Network. December 12, 2015.
- Training on Sediment Transport in Irrigation Network at Hyderabad, Organized by: Pakistan Agricultural Engineering Network. August 22, 2015.
- Training on Best Irrigation Practices and Technologies at Jamshoro Organized by: Institute of Water Resources Engineering Management, Mehran University of Engineering and Technology, Jamshoro, Sponsored by: International Center for Agricultural Research in the Dry Areas (ICARDA) under United States Department of Agricultural (USDA). February 25-27, 2015.
- Training on Laser Land Leveling, Ridge Bed Planting Technologies at Tandojam, organized by: South Asian Conservation Agriculture Network (SACAN Services), Sponsored by: International Center for Agricultural Research in the Dry Areas (ICARDA) under United States Department of Agricultural (USDA). February 20-23, 2015.
- Training on Best Irrigation Practices and Technologies at Jamshoro, organized by: Institute of Water Resources Engineering Management, Mehran University of Engineering and Technology, Jamshoro, Sponsored by: International Center for Agricultural Research in the Dry Areas (ICARDA) under United States Department of Agricultural (USDA). August 15-16, 2014.
- Training on High Efficiency Irrigation Systems at Hyderabad, organized by: South Asian Conservation Agriculture Network (SACAN Services), Sponsored by: International Center for Agricultural Research in the Dry Areas (ICARDA) under United States Department of Agricultural (USDA). May 28-31, 2014.

PUBLICATIONS

- **Imran Ali Lakhia**r, Jianmin Gao, Tabinda Naz Syed, Farman Ali Chandio, Mazhar Hussain Tunio, Fiaz Ahmed, and Kashif Ali Solangi. 2020. Overview of the aeroponic agriculture – An emerging technology for global food security. *International Journal of Agriculture and Biological Engineering (IJABE)*. 13 (1): 1-10.
- **Imran Ali Lakhia**r, Jianmin Gao, Xiuquan Xu, Tabinda Naz Syed, Farman Ali Chandio, Zhou Jing and Noman Ali Buttar. 2019. Effects of various aeroponics atomization nozzles (droplet sizes) and spraying interval on growth, total polyphenol content and antioxidant activity of the leafy lettuce (*Lactuca sativa* L.). *Transactions of the American Society of Agricultural and Biological Engineering*. 62 (6):1475-1487.
- **Imran Ali Lakhia**r, Gao Jianmin, Tabinda Naz Syed, Farman Ali Chandio, Noman Ali Buttar, and Waqar Ahmed Qureshi. 2018. Monitoring and Control Systems in Agriculture Using Intelligent Sensor Techniques: A Review of Aeroponics System. *Journal of Sensors*, 2018. Article ID 8672769.
- **Imran Ali Lakhia**r, Xingda Liu, Guanqun Wang, Jianmin Gao. 2018. Experimental study of ultrasonic atomizer effects on values of EC and pH of nutrient solution. *International Journal of Agriculture and Biological Engineering*. 11 (5): 59-64.
- **Imran Ali Lakhia**r, Jianmin Gao, Tabinda Naz Syed, Farman Ali Chandio and Noman Ali Buttar. 2018. Modern plant cultivation technologies in agriculture under a controlled environment: A review on aeroponics. *Journal of Plant Interactions*. 13 (1): 338–358.
- Yongguang Hu, Noman Ali Buttar, Josef Tanny, Richard L. Snyder, Michael J. Savage, and **Imran Ali Lakhia**r. 2018. Surface Renewal Application for Estimating Evapotranspiration: A Review. *Advances in Meteorology*, 2018, Article ID 1690714.
- Farman Ali Chandio, Li Yaoming, Sher Ali Shaikh, Ma Zheng, Punhoon Khan Korai, Irshad Ali Mari, **Imran Ali Lakhia**r, and Muhammad Suleman. 2018. Effect of straw incorporation by tillage implements combination on physio-chemical properties of soil and maize productivity in field condition. *Fresenius Environmental Bulletin*. Volume 27 – No. 11/2018 pages 7527-7535.
- Yaoming Li, Farman Ali Chandio, Zheng Ma, **Imran Ali Lakhia**r, Abdul Razaque Sahito, Fiaz Ahmad, Irshad Ali Mari, Umer Farooq, and Muhammad Suleman. 2018. Mechanical strength of wheat grain varieties influenced by moisture content and loading rate. *International Journal of Agriculture and Biological Engineering*. 11(4): 52–57.

- Wei Liu, Jianping Hu, Xingsheng Zhao, Haoran Pan, **Imran Ali Lakhia**r, Wei Wang. 2019. Development and experimental analysis of an intelligent sensor for monitoring seed flow rate based on a seed flow reconstruction technique. *Computers and Electronics in Agriculture*. 164, 104899.
- Liu Wei, Jianping Hu, Xingsheng Zhao, Haoran Pan, **Imran Ali Lakhia**r, Wei Wang, and Jun Zhao. 2019. Development and experimental analysis of a precision seeding performance monitoring sensor for small seeds. *Sensors*. 19, 5191.
- Kashif Ali Solangi, Altaf Ali Siyal, Yanyou Wu, Bilawal Abbasi, Farheen Solangi, **Imran Ali Lakhia**r and Guiyao Zhou. 2019. An Assessment of the Spatial and Temporal Distribution of Soil Salinity in Combination with Field and Satellite Data: A Case Study in Sujawal District. *Agronomy*. 9, 869.
- Mazhar Hussain Tunio, Jianmin Gao, Mashooque Ali Talpur, **Imran Ali Lakhia**r, Farman Ali Chandio, Sher Ali Shaikh, Kashif Ali Solangi. Effects of different irrigation frequencies and rates of rice straw on yield and water productivity of wheat crop. *International Journal of Agriculture and Biological Engineering (IJABE)*. 13 (1):135-142.
- Mazhar Hussain Tunio, Jianmin Gao, Sher Ali Shaikh, **Imran Ali Lakhia**r, Waqar Ahmed Qureshi, Farman Ali Chandio, and Kashif Ali Solangi. 2019. Potato Production in Soilless Culture: An Emerging Food Growing System in Sustainable Agriculture for Food Security. *Chilean Journal of Agricultural Research*. 80 (1):118-132.
- Tabinda Naz Syed, Liu Jizhan, Zhou Xin, Zhao Shengyi, Yuan Yan, Sami Hassan Ahmed Mohamed, **Imran Ali Lakhia**r. 2019. Seedling-lump integrated non-destructive monitoring for automatic transplanting with Intel RealSense depth camera. *Artificial Intelligence in Agriculture*. 3 (1):18-32.
- Tabinda Naz Syed, **Imran Ali Lakhia**r, Farman Ali Chandio. 2019. Machine vision technology in agriculture: A review on the automatic seedling transplanters. *International Journal of Multidisciplinary Research and Development*. 6 (12):79-88.
- Altaf Ali Siyal, **Imran Ali Lakhia**r, Muhammad Munir Babar, Pirah Siyal, and Ghulam Shabir Solangi. 2018. Study of Soil, Water, and Cropping Pattern in Danastar Wah (Manchar Lake) Command Area Using Geospatial Tools. *Mehran University Research Journal of Engineering & Technology*. Vol. 37, No. 4, 655-668.

- Noman Ali Buttar, Yongguang Hu, Abdul Shabbir, **Imran Ali Lakhia**r, Ikram Ullah, Asad Ali, Muhammad Aleem. 2018. Estimation of the evapotranspiration using Bowen ration method. IFAC Papers Online, 51-17 (2018) 807–810.
- Noman Ali Buttar, Yongguang Hu, **Imran Ali Lakhia**r, Ahmed Azeem, Muhammad Zaman, Muhammad Awais. 2019. Estimating sensible heat flux from Camellia sinensis using the Surface renewal method. An ASABE Meeting Presentation, Paper Number: 1901370.
- Farman Ali Chandio, Yao-Ming Li, Lizhang Xu, Zheng Ma, Fiaz Ahmad, Do Minh Cuing, **Imran Ali Lakhia**r. 2019. Predicting the 3-D forces of agricultural disc tillage tool and soil disturbance area using fuzzy logic model under sensor-based soil-bin environment. International Journal of Agriculture and Biological Engineering.
- Waqar Ahmed Qureshi et al and **Imran Ali Lakhia**r. 2019. Low-pressure drop size distribution characterization of impact sprinkler jet nozzles with and without aeration. Agricultural Water Management.
- Mazhar Hussian Tunio, Jianmin Gao, **Imran Ali Lakhia**r, Yiming Chen, Rui He. 2019. Design and Experiment of Low-Frequency Ultrasonic Nozzle Integrating Air-Assistant System and Acoustic Levitation Mechanism. International Journal of Agriculture and Biological Engineering (IJABE).

SERVICE AS A REVIEWER

- International Journal of agricultural and Biological Engineering
- Land Degradation & Development
- Scientific Reports
- Artificial Intelligence in Agriculture
- Euro-Mediterranean Journal for Environmental Integration

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Life time Member of Pakistan Engineering Council.

EXPERTISE IN COMPUTERS/NET/STATISTICS

Computers: Working knowledge of hardware and software
 Operating Systems: MS-Windows, MS-DOS
 Microsoft Office: Word, Excel, PowerPoint, FrontPage
 Email/Net Exploration: Scopus, Google (Scholar), Yahoo, etc.
 Statistical Packages: MSTAT-C, Statistics 8.1, Minitab

LANGUAGES

- English language good in reading, writing and speaking
- Sindhi and Urdu languages excellent in reading, writing and speaking.
- Chinese language good in speaking.

PERSONAL INFORMATION

Father's Name: Imtiaz Ali
Cast: Lakhia
Passport No: AU8342092
Date of Birth: 13-04-1992
Domicile: District Dadu
Nationality: Pakistani, Muslim

REFERENCE

Pro. Dr. Gao Jianmin

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Jiangsu University, Zhenjiang, China
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Pro. Dr. Farman Ali Chandio

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