



# Imran Shauket

Date of birth: 18/03/1991 | Nationality: Pakistani | Gender: Male | (+92) 3326283578 | [imran.shaukat@uaf.edu.pk](mailto:imran.shaukat@uaf.edu.pk) |

Department of structures and environmental engineering  
university of agricultureFaisalabad, 38000, Faisalabad, Pakistan

## ● WORK EXPERIENCE

07/09/2025-Current  
**Lecturer** - Department of Structures & Environmental Engineering, University of Agriculture Faisalabad

06/09/2013 - 06/09/2025  
**ASSISTANT EXECUTIVE ENGINEER** - University of Agriculture Faisalabad

Teaching and supervising work in:  
Environmental Engineering Lab  
Hydrological modelling

05/03/2012 - 05/05/2012  
**INTERNSHIP** - Water and Sanitation Authority (WASA), Faisalabad

Worked in Drinking water quality lab, wastewater treatment lab  
Faisalabad, Pakistan

## ● EDUCATION AND TRAINING

14/09/2018 - 29/04/2025 - Faisalabad, Pakistan  
**PhD. AGRICULTURAL ENGINEERING** - University of Agriculture, Faisalabad.

Thesis title: “Integrated Hydrological Modelling Towards Sustainable Restoration of The Transboundary Ravi River basin”.  
EQF level 7

14/09/2012 - 13/07/2015 - Faisalabad, Pakistan  
**M.SC.(HONS.) AGRICULTURAL ENGINEERING** - University of Agriculture, Faisalabad.

Thesis title: “Investigation of salinity transport in groundwater using MODFLOW and MT3DMS”. | EQF level 7

14/09/2008 - 13/07/2012 - Faisalabad, Pakistan  
**B.SC.(HONS.) AGRICULTURAL ENGINEERING** - University of Agriculture, Faisalabad.

Thesis title: “Investigation of salinity transport in groundwater using MODFLOW and MT3DMS”. | EQF level 7

## LANGUAGE SKILLS

Mother tongue(s): URDU

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## PUBLICATIONS

---

**Imran Shauket**, Nasir, A., Ali, S. and Aslam, Z. (2025). Assessing groundwater abstraction and salt accumulation in the unconfined aquifer of Rachna Doab, Pakistan: a modelling approach. *Water Practice & Technology*. [online] doi:<https://doi.org/10.2166/wpt.2025.021>.

M Waqar Akhranta<sup>d</sup>, Guiqiang Li<sup>b\*</sup>, Yi Jina<sup>\*</sup>, Xiao Chen<sup>c</sup>, Changan Zhua, **Imran Shauket**<sup>d</sup>, Ashfaq Ahmad. May 2020. Defect detection and degradation analysis in PV modules using thermography, spectroscopy and current-voltage measurements, and quantitative assessment of their impact. *Energy technology*. ISSN: 2194-4296.

Nasir. M.S., A.Nasir, **I.Shauket**, S.Anwar and I.Ayub. 2016. Impact of Samundri Drain on water resources of Faisalabad City. *Advances in Environmental Biology*. 10(1) January 2016, Pages: 155-160.

Ali, M. G., Ali, S., Arshad, R. H., Nazeer, A., Waqas, M. M., Waseem, M., Aslam, R. A., Cheema, M. J., Leta, M. K., & **Shauket, I.** 2021. Estimation of Potential Soil Erosion and Sediment Yield: A Case Study of the Transboundary Chenab River Catchment. *Water*. ISSN: 3647

Asadullah, M., Khan, S.N., Safdar, H.M., Aslam, R.A. and **Shaukat, I.** (2020). SUSTAINABILITY AND DEVELOPMENT OF AQUAPONICS SYSTEM: A REVIEW. *Earth Sciences Pakistan*, 4(2), pp.78–80. doi:<https://doi.org/10.26480/esp.02.2020.78.80>.

**Shaukat, I.**, ul-Haq, H.I., Safdar, H.M. and Arshad, R.H. (2020). IMPACT OF CLIMATIC PARAMETERS ON CROP WATER REQUIREMENTS IN DIFFERENT AGRO ECOLOGICAL ZONES OF PAKISTAN. *Earth Sciences Pakistan*, 4(1), pp.21–24. doi:<https://doi.org/10.26480/esp.01.2020.21.24>.

Tariq, W., Nafeesa Tayyab, Anjum, T. and **Shaukat, I.** (2019). REMOVAL OF HEAVY METALS FROM CHEMICAL INDUSTRIAL WASTEWATER USING AGRO BASED BIO-SORBENTS. *ResearchGate*, [online] 2(2), pp.09-14. doi:<https://doi.org/10.26480/acmy.02.2018.09.14>.

Anjum, T., Haq Khan, H.I.-U., Tariq, W., Farooq, U. and **Shauket, I.** (2017). Production of soil cement bricks using sludge as a partial substitute. *Earth Science Malaysia*, 1(2), pp.10–12. doi:<https://doi.org/10.26480/esmy.02.2017.10.12>.

## HONOURS AND AWARDS

---

3<sup>rd</sup> position in a poster presentation. In the second national student conference in Biological Sciences. On harvesting of wastewater and conversion of sludge into bioenergy and bio-fertilizer.

## ORGANISATIONAL SKILLS

---

Organize a conference on wastewater issues, present scenario and remedies  
Conduct three survey camps. Working as assistant superintendent boys' hostel from November 2016  
Organize training related to water quality testing, Hydrological modelling.

## COMMUNICATION AND INTERPERSONAL SKILLS

---

Good communication skills gained during my studies.

Excellent contact skills with students gained through my experience as Assistant

Executive Engineer Presented my research work at 2nd national student conference.

## ● JOB-RELATED SKILLS

---

06/09/2013 - CURRENT

### Job-related skills

---

**Environmental Engineering:** I possess a robust skill set and extensive experience in the domains of contaminant transport and fate, as well as porous media groundwater flow. My proficiency in these areas is rooted in years of dedicated research and practical application. I have successfully employed advanced modeling techniques to simulate the intricate movement of contaminants within various media, enabling precise predictions of their behavior and impact on groundwater systems. Additionally, my in-depth understanding of porous media groundwater flow dynamics empowers me to analyze complex subsurface interactions and develop effective strategies for managing and mitigating contaminant dispersion. My track record showcases my ability to translate theoretical insights into actionable solutions that contribute significantly to the field of Environmental Engineering.

**Hydrological Modeling:** Proficient in utilizing hydrological models for water balance studies, including SWWAT (Soil and Water Assessment Tool), MODFLOW, integrated SWAT-MODFLOW, HECHMS (Hydrologic Engineering Center Hydrologic Modeling System), and HEC-RAS (Hydrologic Engineering Center's River Analysis System).

**Model Calibration and Validation:** Extensive experience in calibrating and validating hydrological models to ensure accurate representation of water balance components and improve model performance.

**Parameter Estimation:** Skilled in estimating model parameters by utilizing observed data and optimization techniques to enhance the reliability and accuracy of hydrological simulations.

**Integration of Models:** Proficient in integrating hydrological models with other software tools, such as coupling SWAT-MODFLOW for improved representation of groundwater-surface water interactions.

## ● Professional summary

---

Experienced Agricultural Engineer with a strong background in water resources management. Holding a B.Sc. in Agricultural Engineering (2012) and an M.Sc. in Agricultural Engineering (2015), specializing in the investigation of salinity transport using MOD FLOW and MT3DMS. I am currently working as a lecturer in the Department of Structures and Environmental Engineering.

Proficient in utilizing advanced computing software, including SWAT, MODFLOW, integrated SWAT-MODFLOW, FEE FLOW, and HECHMS, to effectively analyze and model hydrological processes. Developed a comprehensive understanding of surface water and groundwater systems, enabling accurate assessments of water availability, flow patterns, and quality.

Proven expertise in integrated water resources management, as demonstrated through active participation in the research project focused on the sustainable restoration of the Transboundary Ravi River Basin. I am skilled in data collection, field surveys, and employing computational tools to contribute valuable insights to water resource analysis.

I am committed to leveraging my extensive knowledge and skills to tackle complex water management challenges and promote sustainable practices. Seeking an opportunity to apply my expertise in a dynamic organization focused on water resources conservation and environmental sustainability.