

SYED IFTIKHAR HUSSAIN SHAH KAZMI



Assistant Professor

Department of Water Resources Management
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RESEARCH INTEREST:

Groundwater flow simulations, Crop growth simulations, solute transport simulations through porous media, Deficit irrigation, water quality assessment, performance evaluation of irrigation and drainage systems, crop water productivity, GIS applications in WRM, Rainwater Harvesting

EDUCATION:

- 1996 - 1998 **M.Sc. (Hons) Agriculture** (Water Management), NWFP Agricultural University, Peshawar, Pakistan
- 1992 - 1996 **B.Sc. (Hons) Agriculture** (Water Management), NWFP Agricultural University, Peshawar, Pakistan

*Ph.D. is in Progress

PERSONAL:

- Date of Birth: July 07, 1973
- Place of Birth: Khyber Pakhtunkhwa, Pakistan
- Citizenship: Pakistani

TRAININGS/SHORT COURSES COMPLETED:

1. Three days Training Workshop on **Application of Google Earth Engine in Agriculture and Water Resources Management**, Islamabad, Pakistan by IWMI and USAID,
2. Three days training workshop on **Computer-Aided-Design (CAD) – HEC-HMS**, Islamabad, Pakistan by IWMI and USAID
3. Two days Training on **Groundwater Monitoring in Khyber Pakhtunkhwa. Islamabad**, Pakistan by IWMI and USAID
4. **Groundwater Governance in Asia: Theory and Practice**. International Water Management Institute (IWMI), India, Pakistan and Nepal, (04 Months)
5. **Field Measurement Techniques for Water Management**, NWFP Agriculture University Peshawar and Wageningen Agricultural University, The Netherlands (02 months)
6. **Remote Sensing Applications in Water Management**, Department of Water Management, The University of Agriculture, Peshawar, Pakistan (01 Week)

7. **Computer Aided-Design (CAD)-HEC-HMS**, International Water Management Institute (IWMI), USAID, Islamabad, August 22-24, 2022.
8. **Advance modelling of water flow and contaminant transport in porous media using the HYDRUS and HP1 software packages**. Czech University of Life Sciences, Prague, (3 days)
9. **Analysis of Surface Irrigation with WinSRFR**. NARC, IWMI and USDA, Islamabad (2 days)
10. **Flow Measurement with WinFlume**. NARC, IWMI and USDA, Islamabad (1 day)
11. **The Effects of Climate Change on Rainfall Patterns and Existing Rainwater Management in Khyber Pakhtunkhwa**. The University of Agriculture, Peshawar (1 Day)
12. **Project formulation Workshop**, The University of Agriculture, Peshawar and Pakistan Science Foundation, Islamabad (02 Days)
13. **SPSS for Beginners- SPSS Step by Step**. Research Center for Training and Development, online (02 days)
14. **SPSS and Research Methodology**. The University of Agriculture, Peshawar and Pakistan Science Foundation, Islamabad (02 Days)
15. **Training of Presiding Officers**. Election Commission of Pakistan, (02 days)
16. **Three Months Compute Course**. Department of Maths, Stats and Computer Sciences, NWFP Agricultural University Peshawar, (03 Months)

DISTINCTIONS/AWARDS:

1. **Ph.D. Fellowship** (Overseas scholarship for Ph.D studies in Selected Fields, Netherlands Phase-II), Higher Education Commission, Islamabad, Govt. of Pakistan
2. **Second Position in M.Sc. (Hons)** (1999), Dept. of Water Management, NWFP Agricultural University, Peshawar, Pakistan

PROFESSIONAL EXPERIENCE:

May 2014 – Present	Assistant Professor , Dept. of Water Management, The University of Agriculture, Peshawar, Pakistan
Nov. 2005 – May. 2014	Junior Research Specialist/Lecturer , Dept. of Water Management, NWFP Agricultural University Peshawar, Pakistan
Jul. 2003 – Jul. 2004	Field Coordinator , Micro-Irrigation, Engro Asahi Polymers and Chemicals, Karachi
Nov. 1999 – Feb. 2000	Consultant PRME , SUNGI Development Foundation, Abbottabad

TRAININGS / SHORT COURSES CONDUCTED:

S. No.	Title of Training	Duration	Sponsor	Involvement
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1.	Climate Change Adaptation and Water Management for Small Holder Farmers of KP	One day	U.S. Embassy and PUAN	Resource Person
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COURSES TAUGHT:

POSTGRADUATE	• High Efficiency Irrigation Systems, • Water Resources Planning and Management, • Optimal Use of Water
UNDERGRADUATE	• Pressurised Irrigation • Hydraulics • Hydrology • Water Supply and Sanitation • Crop water requirement and Irrigation Scheduling • GIS and its Applications • Irrigation Scheme Development • Participatory Water Management • Fundamentals of Water Management

RESEARCH SUPERVISED:

- 03 M.Sc. (Hons) students as Major-Supervisor/Chairman Supervisory Committee:

Sr. No	Name of the student	Year	Thesis Title
1.	Tahir Rahim	2023	Assessment of groundwater use and its quality in a secondary canal command, Multan (Punjab, Pakistan)
2.	Ali Nawaz	2021	Performance assessment of system of wheat intensification using different irrigation depths through drip irrigation
3.	Muhammad Salman Durrani	2017	Assessment of potato yield under different irrigation and nitrogen treatments using crop growth model

- 07 M.Sc. (Hons) students as Major Member Supervisory Committee:

Sr. No	Name of the student	Year	Thesis Title
1.	Ahmad	2023	Study of Land Use and Crop Water Demand in Khanewal, Pakistan
2.	Fawad Ali	2023	Assessment of groundwater quality in the southeastern part of district Buner, KPK-Pakistan
3.	Khawaja Muhammad Zakariya	2021	Effect of urbanization on irrigated agriculture in Shujabad Canal Command area of District Multan
4.	Qasim Ali	2020	Effect of climate and other factors influencing agriculture and irrigation practices in command area of Joe Sheikh Canal
5.	Junaid Ali Shah	2016	Effect of deficit irrigation and nitrogen levels on cabbage under drip irrigation
6.	Muhammad Junaid	2016	Study of re-emergence of waterlogging in Mardan SCARP Area
7.	Saiqa Jehan	2014	Study of irrigation scheduling strategies of sugar crops using long term climatic data of Khyber Pakhtunkhwa

- 02 M.Sc. (Hons) students as Minor Member Supervisory Committee:

Sr. No	Name of the student	Year	Thesis Title
1.	Hassam ul Haq Fazal	2023	Soil fertility mapping and annual loss estimation using multicriteria analysis and revised universal soil loss equation: A case study of district Abbottabad, Pakistan
2.	Tahleem Akmal	2023	

- 09 B.Sc. (Hons) students as Internship Supervisor

Sr. No	Name of the student	Year	Internship/Project Title
1.	Umar Nawaz	2024	Mapping summer season crops and comparing surface water supply to crop water demand in a mountainous area (a case study of district Battagram)
2.	Syed Aleena Haider	2023	Assessment of selected water quality parameters in Kabul River reach from Warsak dam to Nowshera
3.	Matiullah	2023	Mapping dams and other water bodies in Qila Saifullah region of Balochistan
4.	Urais Mahmood	2022	Physico-chemical parameters of water quality assessment in groundwater of Peshawar
5.	Syed Naseem Shah	2022	Water storage tank scheme development under Khyber Pakhtunkhwa Irrigated Agriculture Improvement Project
6.	Muhammad Tufail	2018	Estimation of application uniformity of level basin irrigation at the research farm of the University of Agriculture Peshawar
7.	Syed Muhammad Ali	2017	Water quality assessment of groundwater samples from district Mardan
8.	Imran Ullah	2017	Physico-chemical assessment of surface and groundwater quality of Tehsil Allai, District Battagram
9.	Salman Khan	2016	Screening study of proposed Manzari Shah Alam Prenal Irrigation scheme, District Pishin

COMPUTER SKILLS

Hydrological/Water Resources/Environmental Models:	• MODFLOW i. PM Processing ii. Freewat iii. Modelmuse • Hydrus 1 and 2D • HEC-HMS • SWAT (Soil and Water Assessment Tool) • SOBEK • Drainmod • Surfer
Design and evaluation	• Win Flume • WinSRFR
Geographical Information Systems:	• QGIS • Arc GIS,
DSS Models:	• DSSAT • AQUA CROP

	• CROPWAT
Remote Sensing:	• Google Earth Engine • SNAP
General:	• Kobo Toolbox • Windows 10/7/XP. • Microsoft Office applications, • Endnote

PUBLICATIONS:

A. Publications in Peer Reviewed Journals:

1. Kazmi, S.I., M.W. Ertsen and M.R. Asi. 2012. The impact of conjunctive use of canal and tube well water in Lagar irrigated area, Pakistan. *Physics and Chemistry of the Earth*. 47-48: 86-98.
2. Usman, M., I. Kazmi, T. Khaliq, A. Ahamd, M.F. Saleem and A. Shabbir. 2012. Variability in water use, crop productivity and profitability of rice and wheat in Rechna Doab, Punjab, Pakistan. *The Journal of Animal and Plant Sciences*. 22(4): 998-1003.
3. Sarwar, T., S. I. Hussain and M. J. Khan. 2001. Performance evaluation of a composite pipe drainage System of Swabi SCARP. *Sarhad Journal of Agriculture*. 17(4): 595 – 600.

B. Publications in Workshop/Seminar Proceedings:

1. Kazmi, S.I.H.S., and Ertsen, MW. 2011. Changes in tube wells count in two decades in an area under conjunctive irrigation Pakistan. 25th ICID European Regional Conference (16-20 May, 2011), Groningen, the Netherlands.
2. Kazmi, S.I.H.S., and Ertsen, MW. 2011. Potential estimation of groundwater recharge using pesticides as tracer. Oral presentation at the European Geosciences Union, General Assembly 2011, Vienna, Austria.
3. Ertsen, M. W. and S.I. Kazmi .2010. Irrigation and groundwater in Pakistan, Poster at the European Geosciences Union, General Assembly 2010, Vienna, Austria

C. Technical Reports

1. Sarwar, T., S.I.H.S. Kazmi and Naveedullah.2017. The effects of climate change on rainfall patterns and existing rainwater management in Khyber Pakhtunkhwa: How to enhance community resilience and their livelihood practices? Climate change Centre, The University of Agriculture Peshawar and NCA actalliance.

MEMBER OF COMMITTEES:

1. *Member, Board of Studies in Water Management (2021 to date)*

REFERENCES

Available upon request