Curriculum Vitae

PERSONAL INFORMATION

Name	:	Muhammad Faizan Aslam
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EDUCATION

University of Sassari   **Sassari, Italy**
PhD Agrometeorology and Ecophysiology of Agricultural and Forest Ecosystems   **2020-24**

Research is focused on the Water-Energy-Food-Ecosystem (WEFE) Nexus approach, emphasizing the elucidation of complex interrelationships among these critical sectors. This work involves employing the sophisticated analytical framework and feedback mechanisms within the WEFE sectors. By integrating multidisciplinary approaches, my research aims to address pressing challenges related to resource efficiency, environmental impact mitigation, and system resilience. The goal is to develop actionable and evidence-based recommendations that inform policy and practice, therefore contributing to the advancement of sustainable solutions.

IHE Delft Institute for Water Education   **Delft, Netherland**
Visiting Researcher   **2023**

At IHE, I was instrumental in framing and refining my research on the Water-Energy-Food-Ecosystem (WEFE) Nexus. I engaged with leading experts to develop a comprehensive research framework. This collaboration facilitated the integration of advanced analytical methodologies and modelling techniques in shaping the research objectives, enhancing the multidisciplinary approach, and ensuring the robustness of the study designs.

University of Agriculture   **Faisalabad, Pakistan**
M.Sc. (Hons.) Agricultural Economics   **2017-19**

Thesis title: Impact of sowing method on rice productivity and profitability. A case study of District Sialkot

B.Sc. (Hons.) Agricultural and Resource Economics   **2013-17**

EXPERIENCE

Euro-Mediterranean Center on Climate Change (CMCC) IAFES DIVISION   **Sassari, Italy**
Post-Degree Scientist   **2024 – in Progress**

Actively participated in several national and European projects, including the NEXOGENESIS, TransformAr and NODES, focuses on modelling the impact of climate change on water resources and food security in arid and semi-arid areas, with particular emphasis of adaptation practices at field scale in agriculture to improve water use efficiency, optimal management of agro-ecosystems at landscape level to optimize allocation for multiple crops/sectors, and risk assessments under climate change.

Euro-Mediterranean Center on Climate Change (CMCC) IAFES DIVISION   **Sassari, Italy**
Affiliated Scientist   **2022 – 2023**

NEXOGENESIS Project funded by the European Commission under the H2020 programme
Participation in Project Activities

- Modeling crop water demand under climate change for the Jiu, Adige and Inkomati Case studies by utilizing the CMIP6 climate data.

- Produced the land use dynamics map of all the case studies, including Adige, Inkomati, Lielupe, Jiu and Nestos.
- Actively participated in the submission of the preliminary validation result report.

TERRAS Project
Participation in Project Activities
- Facilitated the provision of essential Climate data for DSSAT model.
- Developed and presented comprehensive graphical analysis of results to enhance data-driven decision-making and interpretation.
- Collaborated on final report writing with project members

Prime Minister's Youth Training Scheme   **Sialkot, Pakistan**
Agriculture Extension office   **2017-2018**
I was responsible for research, seminars, and reporting on projects of government (E-credit schemes, weeds control complains, rust free wheat seed distribution, Training workshops of Field staff, promotion of pulses, farm visits and tunnel farming for enhancing vegetables production).

AWARDS and GRANTS

- Awarded with Laptop under Merit Laptop Scheme by Prime Minister Youth Initiative Program.
- Paid one year training at Agriculture Extension office Sialkot, Pakistan
- Fully Funded PhD by Euro-Mediterranean Center for Climate Change (CMCC)

SKILLS
- Administrative level skills for window, intermediate level experience of remote sensing by using GIS software (ArcGIS Desktop), climate data processing software (CDO), and statistical software (SPSS and RStudio)

CONFERENCES, TRAININGS AND SCHOOLS etc

- Delivered an engaging oral presentation at "EGU General Assembly 2024" conference held in Vienna on 14th-19st April 2024
- Attended annual project meeting of NEXOGENESIS held in Tours, France on 20th to 22 September 2023
- Poster presented at "6th European Climate Change Adaptation Conference 2023" held in Dublin, Ireland on 19th – 21st June 2023
- Poster presented at "CMCC annual meeting 2022" held in Ugento on 29th May-31st May 2023
- Master class on "Water-Energy-Food (WEF) Nexus Training" Organized by held on 12th – 15th June 2023
- Attended hybrid cross-sectoral ISIMIP-PROCLIAS Workshop organized by ISIMIP core team and PROCLIAS at CZU in Prague, Czech Republic from 5th – 08th June 2023
- Presented the poster at "SISC2022: Governing the Future" conference held in Rome on 19th-21st October 2022
- Summer School on "Digital Water Management for Sustainable Irrigation" held in Jolanda di Savoia (FE), Budrio (BO) and Cadriano (BO) on 12th-16th September 2022
- International Training on "Introduction to GIS and Satellite Remote Sensing: Application for Natural Hazards, Landcover and Water Resources" held on 30th May to 09th June 2022
- Training on "The Water-Energy-Food-Ecosystems Nexus: From research to Practice" held on 06th-08th December 2021

LANGUAGES

- English
- Urdu

PUBLICATIONS

Spano D., Armiento M., **Aslam M.F.**, Bacciu V., Bigano A., Bosello F., Breil M., Buonocore M., Butenschön M., Cadau M., Cogo E., Colelli F. P., Costa Saura J.M., Dasgupta S., De Cian E., Debolini M., Didevarasl A., Ellena M., Galluccio G., Harris R., Johnson K., Libert A., Lo Cascio M., Lovato T., Marras S., Masina S., Mercogliano P., Mereu V., Mysiak J., Noce S., Papa C., Phelan A.S., Pregagnoli C., Reder A., Ribotta C., Sano M., Santini A., Santini M., Sartori N., Sini E., Sirca C., Tharmananthan R., Torresan S., Trabucco A., "G20 Climate Risk Atlas. Impacts, policy and economics in the G20", 2021.

Aslam, M.F, Hussain,S , Fayaz,K , Hafiz M. Zaid, Asghar, M.G. , Shafi,M.J., Shabir,F , Zain Ul Abdin. Wheat (Triticum aestivum l.) performance under residue management strategies in maize-wheat rotation. Nat Sci 2018;16(11):139-148

Ijaz, U., Mehmood, F., Raza, A., Hussan, M.U., **Aslam, M.F.,** Shafi, M.J., Asghar, M.G. and Maqbool, M.A., Association between various yield contributing traits of wheat (Triticum aestivum L.) at different levels of phosphorus, Nat Sci 2018;16(11):9-14

Hussan, M.U., Ijaz, U., Ali, M., Nawaz, T., Azam, I., Raza, A., **Aslam, M.F**., H.S., Effect of rate of Zn and B micronutrients on the yield and yield components of wheat, Nat Sci 2018;16(11):15-21

Ijaz, U., **Aslam, M.F.**, Asghar, M.G., Ali, M., Shafi, M.J., Maqbool, M.A., Zaid, H.M. and Khan, M.D., Response of Wheat to Bio-compost (BC) along with Inorganic Fertilizer (NPK), Nat Sci 2018;16(10):142-147