

DR. MUHAMMAD FAHEEM

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Date of Birth: 10 June. 1987

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ACADEMIC QUALIFICATIONS

Degree	College/University	Year	CGPA/Division
PhD Agricultural Engineering	Jiangsu University, Zhenjiang, China	2022	1 st
M.Sc. (Hons.) Agricultural Engineering	University of Agriculture, Faisalabad, Pakistan	2013	3.71/4.00
B.Sc. (Hons.) Agricultural Engineering	University of Agriculture, Faisalabad, Pakistan	2010	3.20/4.00
F.Sc. (Pre-Engineering)	B.I.S.E. Bahawalpur, Pakistan	2005	1 st
Matriculation	B.I.S.E. Bahawalpur, Pakistan	2003	1 st

PROFESSIONAL EXPERIENCE

1- **Assistant Executive Engineer** 06-Sep-2013 to date

(Department of Farm Machinery and Power) University of Agriculture, Faisalabad.

2- Worked as “**Construction Supervisor**” 03-june-2010 to 31-Dec-2010

SAREMCO international (Private Limited) Near Canal, Federal Colony, Lahore, Pakistan.

ADMINISTRATIVE EXPERIENCE

- Working as a member in the “Institutional Support & Financial Resources Committee (B.Sc. Agricultural Engineering Program) of OBE (Outcome Base Education) from 08-06-2021 to date.
- Working as Secretary of “**Vigilance Committee**” of the Faculty of Agri. Engineering and technology, University of Agriculture, Faisalabad from 21-01-2017 to date.
- Working as member of “**Vigilance Committee**” of the Faculty of Agri. Engineering and technology, University of Agriculture, Faisalabad from 21-01-2017 to date.

- Working as an “**Assistant Superintendent**” of Qazzafi hall, University of Agriculture, Faisalabad from 04-08-2021 to date.
- Worked as an “**Assistant Superintendent**” of Faisal Kashmir hall, University of Agriculture, Faisalabad from 04-05-2016 to 08-09-2017.
- Worked as “**Lab Incharge of Thermodynamics and energy lab**” in the department of Farm Machinery and Power from 17-08-2015 to date.
- Worked as a **Supervisor** of one student under national internship program (NIP) “**Prime ministers Youth Training Scheme**” from 23-05-2016 to date.
- Worked as a member of organizing committee of International workshop on “**Sustainable Energy Solutions for community development in Pakistan**” held at University of Agriculture, Faisalabad from November 08-09, 2016.
- Worked as a member of Independent audit and inspection of farm machinery distributed under project “**Promotion of Agricultural Mechanization in Punjab**” in the Division of Sahiwal from 01-08-2016 to 31-08-2016.
- Worked as a member of organizing committee of International workshop on “**Renewable Energy Technologies for community development in Pakistan**” held at University of Agriculture, Faisalabad from November 04-06, 2015.
- Working as “**Secretary in the Society of Engineers and Technologists**”, University of Agriculture, Faisalabad from October 15, 2015 to date.
- Working as “**Co-Incharge Newsletter in the Society of Engineers and Technologists**”, University of Agriculture, Faisalabad from October 15, 2015 to date.
- Working as an “**Incharge of Exhibition/Events in the Society of Engineers and Technologists**”, University of Agriculture, Faisalabad from October 15, 2015 to date.
- Worked as a member of organizing committee of International workshop on “**Renewable Energy Technologies in Pakistan**” held at University of Agriculture, Faisalabad from December 16-18, 2014.
- Working as Member, “**Board of Studies of the Department of Farm Machinery & Power**”, University of Agriculture, Faisalabad from September 06, 2013 to date.

Ph.D. THESIS / RESEARCH WORK

Faheem, M. 2022. Vibration Feature Analysis of Grape Cluster in Different Stages for Robotic Harvesting. Ph.D. Thesis, School of Agricultural Engineering, Jiangsu University, Zhenjiang, China.

M.Sc. (Hons.). THESIS / RESEARCH WORK

Faheem, M 2013. Design, Fabrication and Performance Evaluation of Solar Parabolic Trough for Domestic Applications. M.Sc. (Hons.) Thesis, Department of Farm Machinery and Power, Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad, Pakistan.

AWARDS AND HONOURS

- Award of “**Chinese Government Scholarship (CGS)**” for pursuing PhD studies from Chinese Government from 2017 to 2020.
- I have won second prize in 2019 in “Jiangsu university simulated international academic conference communication semifinal oral presentation competition for overseas graduate students” held in Jiangsu University, China.
- Certificate of Honor awarded by Society of Engineers and Technologists (SET), University of Agriculture, Faisalabad, for working as “**Incharge (SET)**” for the Session 2016-17.
- Certificate of Honor awarded by Society of Engineers and Technologists (SET), University of Agriculture, Faisalabad, for working as “**Secretary (SET)**” for the Session 2015-16.

- Certificate of Honor awarded by Society of Engineers (SET), University of Agriculture, Faisalabad, for working as **“Co-Incharge of Newsletter wing (SET)”** for the Session 2015-16.
- Certificate of Honor awarded by Society of Engineers (SET), University of Agriculture, Faisalabad, for working as **“Member of Exhibition/Events wing (SET)”** for the Session 2015-16.
- Earned One CGPA **“Merit Scholarship”** in M.Sc. (Hons) Agricultural Engineering awarded by University of Agriculture, Faisalabad.
- Certificate of Honor awarded by Board of Intermediate and Secondary Education, Bahawalpur in inter college sports tournament 2003-04.
- Certificate of Honor awarded by Inter Secondary Schools Tournament 2002-03.
- Certificate of Honor awarded by Inter Secondary Schools Tournament 2001-02.

SEMINARS/CONFERNCES/WORKSHOPS/TRAININGS/INTERNSHIPS:

- I have participated in training entitled **“Training Course on Operation & Maintenance of Agricultural Machinery for Pakistan”** sponsored by the Ministry of Commerce and organized by Chinese Academy of Agricultural Mechanization Sciences from October 15th, 2021 to November 4th, 2021 in Beijing, China.
- I have attended two day online workshop on **“Promoting Research Excellence in Academics across Pakistan”** (1st and 2nd February, 2022).
- I have participated in conference titled **“The Eight Sino-foreign Postgraduate Forum of Jiangsu University Engineering III’** on Nov-2019”
- I have participated in seminar on **“Structural Equation Modelling Analysis AMOS”** held in Jiangsu University, China on 18-06-2019.
- Served as a member of management committee of **“9th International Cultural Festival”**, held in Jiangsu University, China on 18-05-2019.
- I have participated in conference entitled **“JSU 16th Simulated int’l PG conference contest”** held in Jiangsu University, China on 10-05-2019.
- I have participated in **“The Eighth Sino-foreign Postgraduate Forum”** Sub Forum: Engineering II” its theme was **“Agricultural Equipment Intelligent Informationization Technologies”** held at Jiangsu University, China on 2018-11-26.
- Paper entitled **“Precision Management of Groundwater Abstraction on Different Spatial Scales of Lower Chenab Canal System in Punjab, Pakistan”** by Yongguang Hu*, Noman Ali Buttar, Faheem Muhammad, Shabbir Abdul, Lakhair Imran Ali, Aleem Muhammad in **“6th IFAC Conference on Bio-Robotics”** held at China Agricultural University, Beijing from 2018-07-12 to 2018-07-15.
- I have participated in workshop titled **“The first Niit Songshan youth forum”** held at Nanjing institute of industry technology, China from 2018-06-21 to 2018-06-22.
- I have completed the course training entitled **“Matlab Onramp”** on June 2018 from Mathworks training services.
- Served as a member of management committee of **“8th International Cultural Festival”**, held at Jiangsu University on 2018-05-26.
- Served as a member of organizing committee of **“3rd Jiangsu Inter University Cricket Tournament”**, held at Jiangsu University from 2018-04-19 to 2018-04-20.
- I have participated in **“China International Agricultural Machinery Exhibition 2017”** held in Wuhan from 2017-10-26 to 2017-10-28.
- Certificate of Participation in seminar **“Indus water treaty: Potential threats to Pakistan water resources”** organized by Water management research center, UAF on November 04, 2016.
- Certificate of Participation in International Workshop entitled **“Hydrological Modeling”** organized by, Faculty of Agricultural Engineering & Technology and Water Management Research Centre, University of Agriculture, Faisalabad on April 19, 2016.

- Certification of Participation in the **“Dawn Pakistan Food & Agri. Expo 2016”** which was held from 5 to 6 April at the Expo Centre, Johar Town, Lahore.
- Certificate of Participation in International Seminar entitled **“World Water day-2016 and training workshop on R-Studio and WinSRFR software”** organized by, Faculty of Agricultural Engineering & Technology and Water Management Research Centre, University of Agriculture, Faisalabad on March 24, 2016.
- Certificate of Participation in seminar entitled **“Irrigation System of Pakistan: Challenges & Opportunities”** organized by Water Management Research Centre, Dept. of Irrigation and Drainage, University of Agriculture, Faisalabad and World Wide Fund for Nature – Pakistan on February 10, 2016.
- Certificate of Participation in International workshop on **“Renewable Energy Technologies for community development in Pakistan”** held at University of Agriculture, Faisalabad, organized by University of Agriculture, Faisalabad and University of Kassel, Germany from November 04-06, 2015.
- Certificate of Participation in training workshop on **“Remote sensing and digital image processing for precision Agriculture”** jointly organized by U.S.-Pakistan Center for Advanced studies in Agriculture and Food security and Pakistan Engineering Council (PEC) held at University of Agriculture, Faisalabad from August 26-27, 2015.
- Participation in training workshop on **“Biomass Gasification Technologies”** jointly organized by Center for Advanced studies in Energy, National University of Sciences and Technology (NUST) and United Nations Industrial Development Organization (UNIDO) held at University of Agriculture, Faisalabad on June 11, 2015.
- Certificate of Participation in a short course jointly organized by Pakistan Engineering Council (PEC) and Department of Irrigation and Drainage entitled **“Techniques for Proposal Writing and presenting scientific Papers”** held at University of Agriculture, Faisalabad on May 15, 2015.
- Certificate of Participation in International Seminar jointly organized by Dalhousie University, Canada, Water Management Research Centre and Department of Irrigation and Drainage entitled **“Sustainable Use of Soil and Water Resources for achieving future Food Security: Challenges and Opportunities”** held at University of Agriculture, Faisalabad on May 13, 2015.
- Certificate of Participation in International workshop entitled **“International Workshop on Renewable Energy Technologies in Pakistan”** held at University of Agriculture, Faisalabad organized by University of Agriculture, Faisalabad and University of Kassel, Germany from Dec 16-18, 2014.
- Certificate of Participation in a training program entitled **“Indigenous On-Campus Training”** organized by Higher Education Commission and University of Agriculture, Faisalabad held at University of Agriculture, Faisalabad from Nov 25-29, 2014.
- Certificate of Participation in a short course jointly organized by Pakistan Engineering Council (PEC) and Department of Irrigation and Drainage entitled **“Hydrological Modeling Using Remote Sensing”** held at University of Agriculture, Faisalabad on October 16, 2014.
- Certificate of Participation in a short course jointly organized by Pakistan Engineering Council (PEC) and Department of Structures and Environmental Engineering entitled **“Drinking Water Quality Issues in Pakistan; Present Scenario – Remedies and Management Practices”** held at University of Agriculture, Faisalabad on June 05, 2014.
- Certificate of Participation in International workshop entitled **“International Workshop on Renewable Energy Technologies in Pakistan”** held at University of Agriculture, Faisalabad organized by University of Agriculture, Faisalabad and University of Kassel, Germany from Oct 1-3, 2013.
- Certificate of Participation in **“Golden Jubilee Celebration Week”** organized by department of Farm Machinery and Power held on March 21-26, 2011.

- Internship in the office of the Senior Subject Matter Specialist (Agronomy) Adaptive Research Farm from 16-04-2010 to 23-04-2010
- Internship in “**Wheat Productivity Enhancement Campaign**”, Deputy District Office Agriculture (Extension) Rahim Yar Khan, from Oct 2009 to Dec 2009.

MEMBERSHIP OF SOCITIES:

- Registered member of Pakistan Engineering Council (PEC) with PEC No. AGRI/3086, Islamabad, Pakistan
- Society of Agricultural Mechanization (SAM), Jiangsu University, China
- Member “Pakistan Society of Agricultural Engineering”
- Member “Board of Studies of the department of Farm Machinery and Power”
- Society of Engineers and Technologists (SE&T)
- Member “Naat club”, University of Agriculture, Faisalabad

TECHNICAL COMPETENCIES:

- Microsoft Office (PowerPoint, Word, Excel)
- AutoCAD (2D&3D)
- Solid-Works
- Ansys
- ADAMS Software
- Matlab simulation
- Theoretical modelling
- E-Draw max and Getdata software
- Origin Pro and SPSS software
- Endnote and Mendley reference software’s
- Sensor and control engineering

LANGUAGES COMPETENCIES:

- English
- Urdu
- Chinese
- Panjabi
- Saraiki

MAJOR COURSE WORK DURING PhD:

- Advanced Agricultural Machinery Principles
- Environmental control of
- Agricultural Biosystems
- Computer Vision Technique in Biomechatronics
- Mathematic Model
- Chaos theory
- Literature Retrieval & Utilization
- Paper Writing
- Chinese I (Ph.D)
- Chinese II (Ph.D)
- Overview of China

MAJOR COURSE WORK DURING M.Sc. (Hons.):

- Renewable Energy Engineering
- Theory of Models-II
- Operational Research
- Advanced Farm Machinery and Power
- Grain preservation and Storage engineering
- Solid works and Simulation
- Agricultural storage engineering
- Soil Physics

- Statistics
- Computer Programming C++

WRITER OF PRACTICAL MANUALS:

- Agricultural Processing Engineering
- Energy Sources and Utilization
- Manufacturing Engineering
- Metallurgy and Workshop Practices
- Instrumentation and Measurements
- Farm Machinery and Earth Moving Equipment's
- Farm Mechanization
- I.C Engines and Tractors
- Engineering Thermodynamics
- Food Processing Engineering
- Seed Science and Preservation

ABSTRACTS:

- Abstract published in “Abstract book of 1st International Conference on Physical Sciences and Engineering December 14-16, 2021” entitled **“Irrigation water-saving for Rice Cultivation by Manually Operated Paddy Drum Seeder Machine (DSR) Technology”**.
- Abstract published in “Abstract book of International workshop on sustainable energy solutions for community development in Pakistan November 08-09,2016” entitled **“Fabrication and performance evaluation of dual tracking solar parabolic trough for steam generation”** with ISBN 978-969-9035-13-5
- Abstract published in “Abstract book of International workshop on sustainable energy solutions for community development in Pakistan, November 08-09,2016” entitled **“Performance evaluation of hybrid solar dryer under load and no-load condition”** with ISBN 978-969-9035-13-5
- Abstract published in “Abstract book of International workshop on sustainable energy solutions for community development in Pakistan November 08-09,2016” entitled **“Proximate analysis of solar dried peach and pear using different pretreatments”** with ISBN 978-969-9035-13-5
- Abstract published in “Abstract book of International workshop on sustainable energy solutions for community development in Pakistan, November 08-09,2016” entitled **“Sustainable development: Renewable energy education for architects”** with ISBN 978-969-9035-13-5
- Abstract published in “Abstract book of Agro-vet Conference, 2016, on Progressive Agro-Vet Sector; A Key to Prosperous Pakistan April 24-2016” entitled **“Biogas production from vegetable and flowers waste using anaerobic digestion”** organized by Agro-vet Forum, Pakistan.
- Abstract published in “Abstract book of Agro-vet Conference, 2016, on Progressive Agro-Vet Sector; A Key to Prosperous Pakistan April 24-2016” entitled **“Design and development of small scale Walk-Behind type sugarcane cutter ”** organized by Agro-vet Forum, Pakistan.
- Abstract published in “Abstract book of International Conference on Renewable Technologies for community development in Pakistan, November 04-06,2015” entitled **“Modification and optimization of solar parabolic trough using copper tube for steam generation”** with ISBN 978-969-9035-11-1
- Abstract published in “Abstract book of International Conference on Renewable Technologies for community development in Pakistan, November 04-06,2015” entitled **“Thermal desalination of water using active-passive solar till system”** with ISBN 978-969-9035-11-1
- Abstract published in “Abstract book of International Conference on Renewable Technologies for community development in Pakistan, November 04-06,2015” entitled

“Bio-energy: A step forward and a solution for energy crises” with ISBN 978-969-9035-11-1

- Abstract published in “Abstract book of International Conference on Renewable Technologies for community development in Pakistan, November 04-06,2015” entitled **“Greener energy: Issues and challenges for Pakistan-wind energy prospective”** with ISBN 978-969-9035-11-1
- Abstract published in “Abstract book of International Conference on Renewable Technologies in Pakistan, December 16-18, 2014.” entitled **“Design, fabrication and performance evaluation of solar parabolic trough for domestic application”** with ISBN 978-969-9035-01-04
- Abstract published in “Abstract book of International Conference on Renewable Technologies in Pakistan, December 16-18, 2014.” entitled **“ Status of farm mechanization in Pakistan”** with ISBN 978-969-9035-01-04

BOOK CHAPTERS:

1. I have worked as a member/editing of book titled “Rapid damage-free robotic harvesting of tomatoes” Liu, Jizhan, Zhiguo Li, and Pingping Li. . Springer Nature, 2021.
2. Muhammad Waqar Akram, Jin Yi and **Muhammad Faheem**. “Computer and Machine Vision in Agriculture” submitted in “AISATA 2021 (Artificial Intelligence and Smart Agriculture: Technology and Applications” (Under Review).
3. **Muhammad Faheem**, Jizhan Liu, Muhammad Waqar Akram. “Mechanical damages to grapes” submitted in Springer book titled "Mechanical Damage in Fresh Horticultural Produce: Measurement, Analysis and Control" (Submitted).
4. A Chapter on “Land Development” in the Book entitled **“Design, Principle and operation of Agricultural Machinery”** in the Department of Farm Machinery & Power, Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad, Pakistan 2013-15 **(In-progress)**.
5. Chapter on “Soil Tillage” in the Book entitled **“Design, Principle and Operation of Agricultural Machinery”** in the Department of Farm Machinery & Power, Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad, Pakistan 2013-15 **(In progress)**.

PUBLISHED PAPERS:

- **Faheem, M.**, Liu, J., Chang, G., Abbas, I., Xie, B., Shan, Z., & Yang, K. (2021). Experimental Research on Grape Cluster Vibration Signals during Transportation and Placing for Harvest and Post-Harvest Handling. Agriculture, 11(9), 902.
- **Faheem, M.**, Liu, J., Chang, G., Ahmad, I., & Peng, Y. (2021). Hanging force analysis for realizing low vibration of grape clusters during speedy robotic post-harvest handling. International Journal of Agricultural and Biological Engineering, 14(4), 62-71.
- Peng, Yun, Aichen Wang, Jizhan Liu, and **Muhammad Faheem**. "A Comparative Study of Semantic Segmentation Models for Identification of Grape with Different Varieties." Agriculture 11, no. 10 (2021): 997.
- Ahmed, S., Xin, H., **Faheem, M.**, & Qiu, B. (2022). Stability Analysis of a Sprayer UAV with a Liquid Tank with Different Outer Shapes and Inner Structures. Agriculture, 12(3), 379.
- Javed, T., Afzal, I., Shabbir, R., Ikram, K., Saqlain Zaheer, **M., Faheem, M.**, Haider Ali, H., Iqbal, J., Seed coating technology: an innovative and sustainable approach for improving seed quality and crop performance, Journal of the Saudi Society of Agricultural Sciences (2022), doi: <https://doi.org/10.1016/j.jssas.2022.03.003>
- Ahmad, A., Wajid, A., Saleem, M.H., Shehzadi, M., Rehan, M., Hussaan, M., **Faheem, M.**, Javed, M.T., El-Sheikh, M.A., Alshaya, H. and Ali, S., Simulating the growth and yield of peanut cultivars under temporal variation using Cropgro-Peanut (Dssat) Model. Pak. J. Bot, 54, P.3.

- Awais, M., Li, W., Cheema, M.J.M., Zaman, Q.U., Shaheen, A., Aslam, B., Zhu, W., Ajmal, M., **Faheem, M.**, Hussain, S. and Nadeem, A.A., 2022. UAV-based remote sensing in plant stress image using high-resolution thermal sensor for digital agriculture practices: a meta-review. *International Journal of Environmental Science and Technology*, pp.1-18.
- Abbas, I., Liu, J., **Faheem, M.**, Noor, R. S., Shaikh, S. A., Solangi, K. A., & Raza, S. M. (2020). Different Real-Time Sensor Technologies for the Application of Variable-Rate Spraying in Agriculture. *Sensors and Actuators A: Physical*, 112265.
- Yang, Q., Ahmad, I., **Faheem, M.**, Siddique, B., Xu, H., & Addy, M. (2021). Development and assessment of belt-drive seedlings transmission device for fully-automatic vegetable transplanter. *Computers and Electronics in Agriculture*, 182, 105958.
- Ajmal, Muhammad, Aiping Shi, Muhammad Awais, Zhang Mengqi, Xu Zihao, Abdul Shabbir, **Muhammad Faheem**, Wei Wei, and Lihua Ye. "Ultra-high temperature aerobic fermentation pretreatment composting: Parameters optimization, mechanisms and compost quality assessment." *Journal of Environmental Chemical Engineering* 9, no. 4 (2021): 105453.
- Abbas, I., Liu, J., Noor, R. S., **Faheem, M.**, Farhan, M., Ameen, M., & Shaikh, S. A. (2020). Development and performance evaluation of small size household portable biogas plant for domestic use. *Biomass Conversion and Biorefinery*, 1-13.
- **Faheem, M.**, Jizhan, L., Akram, M. W., Khan, M. U., Yongphet, P., Tayyab, M., & Awais, M. (2020). Design optimization, fabrication, and performance evaluation of solar parabolic trough collector for domestic applications. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 1-20.
- Awais, M., Li, W., Ajmal, M., & **Faheem, M.** Using IoT Innovation and Efficiency in Agriculture Monitoring System. *Journal of Botanical Research*, 65, 65881289.
- Ajmal, M., Aiping, S., Uddin, S., Awais, M., **Faheem, M.**, Ye, L., ... & Shi, Y. (2020). A review on mathematical modeling of in-vessel composting process and energy balance. *Biomass Conversion and Biorefinery*, 1-13.
- Liu, J., Peng, Y., & **Faheem, M.** (2020). Experimental and theoretical analysis of fruit plucking patterns for robotic tomato harvesting. *Computers and Electronics in Agriculture*, 173, 105330.
- Akram, M. Waqar, Guiqiang Li, Yi Jin, Xiao Chen, Changan Zhu, Xudong Zhao, Abdul Khaliq, **M. Faheem**, and Ashfaq Ahmad. "CNN based automatic detection of photovoltaic cell defects in electroluminescence images." *Energy* 189 (2019): 116319.
- Liu, J., Zhao, S., Li, N., **Faheem, M.**, Zhou, T., Cai, W., ... & Li, P. (2019). Development and Field Test of an Autonomous Strawberry Plug Seeding Transplanter for Use in Elevated Cultivation. *Applied Engineering in Agriculture*, 35(6), 1067-1078.
- Yongguang, H., Buttar, N. A., Shabbir, A., **Faheem, M.**, & Aleem, M. (2018). Precision management of groundwater abstraction on different spatial scales of lower Chenab canal system in Punjab, Pakistan. *IFAC-PapersOnLine*, 51(17), 397-401.
- Altaf, A., S. Gull, A. Z. Shah, **M. Faheem**, A. Saeed, I. Khan, A. A. A. Miah, X. Zhu and M. Zhu. 2021. Advanced genetic strategies for improving rice yield. *J. Glob. Innov. Agric. Sci.* 9:167-171.
- Altaf, A., A. Z. Shah, S. Gull, S. Hussain, **M. Faheem**, A. Zada, A. Saeed, A. A. A. Miah, M. Zhu and X. Zhu. 2022. Progress in modern crop science research in wheat biology. *J. Glob. Innov. Agric. Sci.* 9:xx-xx
- Ajmal, U. B., Khan, M. U., **Faheem, M.**, Tayyab, M., Majeed, M., Sarwar, A., ... & Mohamed, A. M. (2017). Modification and performance evaluation of a wheat thresher. *Russian Journal of Agricultural and Socio-Economic Sciences*, 65(5).
- ur Rehman, T., Khan, M. U., Tayyab, M., Akram, M. W., & **Faheem, M.** (2016). Current status and overview of farm mechanization in Pakistan—A review. *Agricultural Engineering International: CIGR Journal*, 18(2), 83-93.

- Husnain, S. N., Munir, A., Hussain, S. F., & **Faheem, M.** (2014). Quality Drying of Ripened Chilies Using a Glass Solar Tunnel Dryer. *Journal of Global Innovation in Agricultural and Social Sciences*, 2(1), 16-22.

UNDER REVIEW PAPERS

- **Muhammad Faheem***, Muhammad Altaf, Jizhan Liu, Muhammad Yamin, Muhammad Waqar Akram, Muhammad Iqbal, Muhammad Usman Khan. “Impacts of conservation agriculture-based farming technology on maize crop production in Pakistan” submitted in *Agricultural Engineering International: CIGR Journal* (Under Review).
- Shenyi Zhao, Yun Peng, Jizhan Liu, Shan Zhu, **Muhammad Faheem**, Jian Wang, Guangyu Houa. “Detection method of multiple crops leaf disease based on improved Faster R_CNN for facility agricultural environment” submitted in *Computers and Electronics in Agriculture* (Decision Pending).
- Kai-yu Yang, Ji-zhan Liu*, **Muhammad Faheem**, Jin Liang, Shan Zhu, Guang-yu Hou “Vibration-collision coupling modeling in grape clusters for non-damage harvesting operations” submitted in *Biosystems Engineering* (Under Revision).
- Aftab Ahmad Khan, Muhammad Arif Goheer, Nuzba Shaheen, Muhammad Ijaz, Maliha Naz, Sadam Hussain, Talha Javed*, Rubab Shabbir, Muhammad Waqar Akram, **Muhammad Faheem***. “Modelling the crop water and irrigation requirements using CROPWAT model: a case study in arid and semi-arid climates of Pakistan” submitted in *Pakistan Journal of Agricultural Sciences*” (Under Review).
- **Muhammad Faheem***, Jizhan Liu*, Muhammad Waqar Akram, Ibrar Ahmad, Muhammad Ajmal. “Simulation study of grape cluster for realizing damage mechanism during transportation and placing” submitted in *Computers and Electronics in Agriculture*
- **Muhammad Faheem***, Jizhan Liu, Muhammad Tayyab, Muhammad Waqar Akram, Kamran Ikram. “Mechanical and physiological behavior of table grape berry detachment for automatic harvest and post-harvest operations” submitted in *International Journal of Agricultural and Biological Engineering*”.

PROJECTS:

1. I am working as team member in a project entitled “Biomechanical properties, mechanics and dynamics analysis of grape cluster to avoid berry drop and damage during whole harvesting-transporting cycle” under National Natural Science Foundation with Grant No. 31971795.
2. Working as Member of Project implementation committee for project entitled “Strengthening of AMRI Research and Development Capabilities in collaboration with UAF for fabrication of cost effective and efficient small Agriculture Implements for small farmers” from July 07, 2020 to Date.
3. I am working as team member in a project entitled PV Module Eye: Non-destructive imaging and Artificial Intelligence based defect detection and degradation analysis system for PV Modules submitted in Grand Challenge Fund 2021.

JOURNAL PAPERS REVIEWED:

I have reviewed more than 30 research articles in different SCI journals listed below:

1. Environmental Technology & Innovation
2. Biomass Conversion and Bio refinery
3. Agriculture (MDPI)
4. Sustainability (MDPI)
5. Horticulturae (MDPI)
6. International Journal of Environmental Science and Technology
7. IEEE Access
8. Energy Sources, Part A: Recovery, Utilization and Environmental Effects

9. African Journal of Agricultural Research
10. Agricultural Engineering International: CIGR Journal

PUBLIC PROFILES:

1. Research gate (<https://www.researchgate.net/profile/Muhammad-Faheem-10>)
2. ORCID ID (0000-0002-8084-4558)
3. Google Scholar (<https://scholar.google.com/citations?user=3WCBvRAAAAJ&hl=en>)
4. Personnel homepage (<http://www.uaf.edu.pk/EmployeeDetail.aspx?userid=710>)
5. Publons homepage (<https://publons.com/researcher/4039525/muhammad-faheem/>)

ACADEMIC REFERENCES:

- Prof. Dr. Jizhan Liu, Professor/In charge, institute of Agricultural Engineering, school of Agricultural Equipment Engineering, Jiangsu University, Zhenjiang, China
- Prof. Dr. Muhammad Azam Khan, Professor/Chairman, Department of Farm Machinery and Power, University of Agriculture, Faisalabad, Pakistan
- Prof. Dr. Muhammad Arshad, Professor/Dean, Faculty of Agricultural Engineering and Technology, Chairman, Department of Irrigation and Drainage, University of Agriculture, Faisalabad, Pakistan
- Dr. Anjum Munir, Professor/Chairman, Department of Energy Systems Engineering, University of Agriculture, Faisalabad, Pakistan
- Dr. Fiaz Ahmad, Assistant Professor, Department of Agricultural Engineering, Bahauudin Zakriya University Multan, Pakistan