

Dr. Shakeel Imran

Assistant Professor, Department of Agronomy, University of Agriculture, Faisalabad, (Sub-Campus, Burewala-Vehari), Pakistan (March 2016 – to date)

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Personal Details

Date of Birth: February 02, 1984

Domicile: Faisalabad

Nationality, ID & Passport #: Pakistani, 33106-3865218-9, DQ1222183

Home/Postal Address: 737-C, Millat Town, Faisalabad, Pakistan

Institutional Address: 7-KM Chichawatni Road, UAF Sub-Campus, Burewala, Pakistan

Education

PhD (Agronomy) 2014. Split-Site Degree from Department of Agronomy, University of Agriculture, Faisalabad, **Pakistan** and Division of Crop Sciences, School of Bio-Sciences, University of Nottingham, **United Kingdom**

Thesis Title: Response of maize to seed priming and foliar application with various combinations of growth promoting substances

Split-Site Research Project: Phenotypic analysis of mutants of downstream targets of the N-end rule pathway during seed germination of *Arabidopsis thaliana*

M.Sc. (Hons.) Agri. (Agronomy) 2009. “Response of Chickpea (*Cicer arietinum*) and *Euphorbia dracunculoides* to pre and post emergence herbicides under controlled conditions” Department of Agronomy, University of Agriculture, Faisalabad

B.Sc. (Hons.) Agri. (Agronomy) 2007. Department of Agronomy, University of Agriculture, Faisalabad, Pakistan

Academic Distinctions/Awards

Commonwealth PhD Split-Site Fellowship, U.K., 2011 - 2012.

HEC- Pakistan Fellowship for M.Sc. (Hons) leading to PhD, 2008 - 2013.

Benevolent Fund Merit Scholarship for BSc (Hons), 2004 - 2007.

Research Interests

1. Seed physiology and technology (special interest in seed germination, dormancy, longevity; and priming of field crop seeds under normal and stressed conditions)
2. Plant growth regulation (exploiting natural sources/plant extracts for plant growth regulation and pest management)

3. Induction of stress tolerance in crop plants (cotton, cereals, legumes & oilseeds) in relation to environmental stresses
4. Technology transfer and empowering agricultural communities

Courses Taught

Postgraduate

- AGR-709 Seed Technology 3(2-1)
 AGR-717 Sustainable Agriculture 3(3-0)
 C.Phy-705 Postharvest Physiology 3(3-0)

Undergraduate

- Agron-406 Introduction to Seed Science 2(2-0)
 Agron-502 Seed Science Technology 3(2-1)
 Agron-305 Field Crop Physiology 3(2-1)
 Agron-407 Environmental Physiology and Crop Improvement 4(2-2)
 Agron-302 Principles of Agronomy 3(2-1)
 C.Phy-301 General Crop Physiology 2(1-1)

Selected Publications

1. Ma, H., Tecimen, H.B., Ma, F., **Imran, S.**, Gao, R., Yin, Y., Raza, T. and Sun, J., **2022**. Different responses of soil nitrogen to combined addition of labile carbon sources with fresh versus decomposed litter. **Journal of Plant Nutrition and Soil Science.**, 185, 232-242. <https://doi.org/10.1002/jpln.202100303> (IF-2.56)
2. Ahmad, S., Raza, T., **Imran, S.**, Eash, N.S., Khan, N., Ashiq, W. and Flynn, T., **2021**. Foliar Application of Boron Improves the Growth and Yield in Barley (*Hordeum Vulgare L.*). **Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca: Food Science and Technology**, 78(02): 11-17.
3. Ma, H., **Imran, S.**, Gao, R., Yin, Y. and Raza, T., **2021**. Contrasting effects of alanine and methionine on nitrogen ammonification and nitrification, and nitrous oxide emissions in subtropical forest soil. **Journal of Soil Science and Plant Nutrition**, 21(4), pp.2967-2979. <https://doi.org/10.1007/s42729-021-00582-1> (IF-3.61)
4. Khan, N.A., Ahmad, S., Libin, W., **Imran, S.**, Shah, A.A., Aslam A.R., Raza, Q.A., Akhtar, M.S., Latif, H.Z. and Mumtaz, A. **2021**. Analyzing poverty reduction and community development programs of Pakistan: outcomes, challenges and lessons learned. **International Journal of Agricultural Extension**, 09 (03): 507-523.
5. Raza, T., Khan, M.Y., Nadeem, S.M., **Imran, S.**, Qureshi, K.N., Mushtaq, M.N., Sohaib, M., Schmalenberger, A. and Eash, N.S., **2021**. Biological management of selected weeds of wheat through co-application of allelopathic rhizobacteria and sorghum extract. **Biological Control**, 164, p.104775. <https://doi.org/10.1016/j.biocontrol.2021.104775> (IF-3.85)

6. Ahmad, S., Akhtar, S., Bhatti, S., **Imran, S.**, Akhtar, M.S., Mustafa, G., Aslam, A.R., Liu, C., Noreen, S. and Khan, M.A., **2021**. Assessment of the impact of climate change on the productivity of cotton: empirical evidence from cotton zone, southern Punjab, Pakistan. **International Journal of Agricultural Extension**, 9(2), pp.143-162.
7. Ma, H., Tecimen, H.B., Pei, G., **Imran, S.**, Gao, R. and Yin, Y., **2021**. Effects of co-addition of ammonium, nitrite, and glucose with methionine on soil nitrogen. **Environmental Monitoring and Assessment**, 193(6), pp.1-12. <https://doi.org/10.1007/s10661-021-09109-8> (IF-3.30)
8. Akhtar, S., Ahmad, S., Huifang, W., **Imran, S.**, Wang, C., Hassan, G., Tabasam, N. and Mahmood, K., **2021**. Assessment of women's economic empowerment in the rice cultivation sector of the upper Punjab region, Pakistan. **International Journal of Agricultural Extension**, 9(1), pp.35-55.
9. Raza, T., Qureshi, K.N., **Imran, S.**, Eash, N.S. and Bortone, I., **2021**. Associated health risks from heavy metal-laden effluent into point drainage channels in Faisalabad, Pakistan. **Pakistan Journal of Agricultural Research**, 34(3), p.487.
10. Muhammad, A.A., Jiang, H.K., Shui, Z.W., Cao, X.Y., Huang, X.Y., **Imran, S.**, Ahmad, B., Zhang, H., Yang, Y.N., Shang, J. and Hui, Y., **2021**. Interactive effect of shade and PEG-induced osmotic stress on physiological responses of soybean seedlings. **Journal of Integrative Agriculture**, 20(9), pp.2382-2394. [DOI:10.1016/S2095-3119\(20\)63383-4](https://doi.org/10.1016/S2095-3119(20)63383-4) (IF-4.38)
11. Ahmad, S., Huifang, W., Akhtar, S., **Imran, S.**, Yousaf, H., Wang, C. and Akhtar, M.S., **2021**. Impact assessment of better management practices of cotton: a sociological study of southern Punjab, Pakistan. **Pakistan Journal of Agricultural Sciences**, 58(1): 291-300. (IF-0.856)
12. Ahmed, S., Huifang, W., Akhtar, S., **Imran, S.**, Hassan, G. and Wang, C., **2021**. An analysis of urban sprawl in Pakistan: consequences, challenges, and the way forward. **International Journal of Agricultural Extension**, 8(3): 257-278.
13. Ma, H., Mao, P., **Imran, S.**, Raza, T., Gao, R. and Lin, Y., **2021**. Rice planting increases biological nitrogen fixation in acidic soil and the influence of light and flood layer thickness. **Journal of Soil Science and Plant Nutrition**, 21(1), pp.341-348. <https://doi.org/10.1007/s42729-020-00364-1> (IF-3.61)
14. Ahmad, S., Huifang, W., Akhtar, S., Maqsood, S. and **Imran, S.**, **2020**. An analytical study of child labour in the agriculture sector of the rural areas of central Punjab, Pakistan. **Sri Lanka Journal of Social Sciences**, 43(1): 21-37 DOI: <https://dx.doi.org/10.4038/sljs.v43i1.7730>
15. Afzal, I., **Imran, S.**, Javed, T. and Basra, S.M.A., **2020**. Evaluating the integrative response of moringa leaf extract with synthetic growth promoting substances in maize under early spring conditions. **South African Journal of Botany**, 132, pp.378-387. <https://doi.org/10.1016/j.sajb.2020.04.025> (IF-3.11)
16. Chen, C., Qiu, H., Ma, H., **Imran, S.**, Raza, T., Gao, R. and Yin, Y., **2020**. Response of the subtropical forest soil N transformations to tannin acid-organic nitrogen complexes. **SN Applied Sciences**, 2(7), pp.1-10. <https://doi.org/10.1007/s42452-020-3006-7>

17. Raza, T., Kazmi, Z.H., Ullah, M.A., Kanwal, I., **Imran, S.**, Ahmad, R. and Ullah, I.H. **2020**. Comparative Effectiveness of Different Growth Media on Growth, Biomass and Morphology Features of Kinnow Mandarin Seedling. **Food Processing & Nutritional Science**. 1: 1-7.
18. Asghar, M.A., Du, J., Jiang, H., Li, Y., Sun, X., Shang, J., Liu, J., Liu, W., **Imran, S.**, Iqbal, N. and Ahmad, B., **2020**. Shade pretreatment enhanced drought resistance of soybean. **Environmental and Experimental Botany**, 171, p.103952. <https://doi.org/10.1016/j.envexpbot.2019.103952> (IF-6.028)
19. Asghar, M.A., Li, Y., Jiang, H., Sun, X., Ahmad, B., **Imran, S.**, Yu, L., Liu, C., Yang, W. and Du, J., **2019**. Crosstalk between abscisic acid and auxin under osmotic stress. **Agronomy Journal**, 111(5), pp.2157-2162. [doi:10.2134/agronj2018.10.0633](https://doi.org/10.2134/agronj2018.10.0633) (IF-2.650)
20. Akhtar, S., Ahmad, S., Huifang, W., Shahbaz, A., Ghafoor, A., **Imran, S.** and Zafar, A., **2018**. An analysis of wastewater irrigation practices and its impacts on the livelihood generation and food chain contamination in Faisalabad District, Pakistan. **ISABB Journal of Health and Environmental Sciences**, 5(4), pp.33-42.
21. Akhtar, S., Ramzan, S., Ahmad, S., Huifang, W., **Imran, S.** and Yousaf, H., **2018**. Women in Agriculture–Lack of Access to Resources (An Analytical Study of District Faisalabad, Punjab, Pakistan). **SSRG International Journal of Economics Management Studies**, 5(10), pp.16-24.
22. Qasim, M., Ahmad, S., Akhtar, S., **Imran, S.** and Qureshi, K.N., **2018**. Urban Population Behaviour and Knowledge Assessment about Water Quality, Consumption, and Conservation in Pakistan. **Environment and Ecology Research**, 6(6): 525-536 [DOI: 10.13189/eer.2018.060602](https://doi.org/10.13189/eer.2018.060602)
23. Ahmad, S., Huifang, W., Akhtar S., Bukhari, Z., **Imran, S.**, and Yousaf, H., **2018**. Investigation of awareness and practices among the youth about HIV/aids in central Punjab (Pakistan). **Saudi Journal of Humanities and Social Sciences**, 3(10):1162-1168 [DOI: 10.21276/sjhss.2018.3.10.3](https://doi.org/10.21276/sjhss.2018.3.10.3)
24. Akram A., G. Akhtar, I. Ahmad, R. M. Balal, M. A. Shahid, A. Younis and **S. Imran**. (2015). Efficacy of planting seasons and macro nutritional levels on growth, yield and vase life of Carnation *Dianthus caryophyllus* L. **Science, Technology and Development**. 34(3): 169-178
25. **Imran, S.**, I. Afzal, M. Amjad, A. Akram, K.M. Khawar and S. Pretorius. (2014). Seed priming with aqueous plant extracts improved seed germination and seedling growth under chilling stress in Lentil (*Lens culinaris* Medik). **Acta Adv. Agri. Sci.** 02 (11): 58-69.
26. M. Amjad, J. Akhtar, M. Anwar-ul-haq, **S. Imran** and S.E. Jacobsen. (2014). Soil and foliar application of potassium enhances fruit yield and quality of tomato under salinity. **Turk. J. Biol.**, 38 (2): 208-218. (IF-3.24)
27. **Imran, S.**, I. Afzal, S.M.A. Basra and M. Saqib. (2013). Integrated seed priming with growth promoting substances enhances germination and seedling vigour of spring maize at low temperature. **Int. J. Agric. Biol.**, 15 (6): 1251–1257.
28. Tanveer A., **S. Imran**, M. Ayub and M. Yasin. (2010). Response of chickpea (*Cicer arietinum*) and *Euphorbia dracunculoides* to pre and post-emergence herbicides. **Pak. J. Weed Sci. Res.**, 16 (3): 267-277.

Professional Short Training Courses taken at University of Nottingham, UK (Total= 29)**-Academic Language & Writing Skills**

Writing in Plain English 19 April 2012
 Research Writing 14 February 2012

-Research Methods & Approaches

Problem exploration in research 27 March 2012
 Further qualitative research 22 March 2012
 Essential information skills for new researchers 08 February 2012

-Research Environment & Context

Finishing your thesis 24 April 2012
 Getting going on your thesis 20 March 2012
 Preparing for the viva 03 March 2012

-IT & Information Skills

Microsoft PowerPoint: Introduction 08 May 2012
 Creating a Poster in PowerPoint 27 April 2012
 Microsoft Outlook: Collaborative Features 18 April 2012
 NVivo® Part 2: Using NVivo9® in the analysis of qualitative data. 21 March 2012
 Creating and Managing Long Documents in Microsoft Word 23 March 2012
 Referencing and citing using Endnote 08 March 2012
 Collaborating in Microsoft Word 26 January 2012
 Simple calculations in Excel 20 December 2011

-Interpersonal & Communication Skills

Effective Academic Presentation 21 February 2012
 Presentation skills for researchers 17 April 2012

-Learning & Teaching

Making Connections: Brain - Friendly Teaching 28 February 2012
 Teaching Students from Different Cultures 25 January 2012
 Engage, Excite, Enhance: Top tips for Teaching and Learning! 23 February 2012
 Marking and Assessment for Scientists 07 March 2012

-Career Management

Applying for a Fellowship 11 January 2012
 Applying for academic jobs 30 January 2012
 Interview Training Practical for Researchers 13 March 2012
 Thinking Ahead - Career options and planning 05 April 2012
 Career action planning 15 December 2011
 Applying for jobs outside academia 10 February 2012

-Leadership & Management

Self-Confidence Building 05 January 2012