Muhammad Mohsin Raza

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PROFESSIONAL SUMMARY

- Plant pathologist with more than 6 years of experience in plant disease epidemiology and spatial statistics
- Certified Geographic Information System (GIS) specialist with more than 5 years of experience in GIS and Remote sensing
- Freelance data scientist with more than 1 year of experience working as independent Data Scientist
- Proficient in data analytics using R, Python, ArcMap and ArcGIS Pro

ANALYTICAL SKILLS

Data Analysis: R, Python, ArcGIS Pro, Exploratory, MS Power BI, GeoDa, SPSS
Machine Learning: R, Tidymodels, Python, Scikit-learn, Keras, TensorFlow, PyTorch
Miscellaneous: Kaggle Expert, Tidyverse, R Markdown, LaTeX, Dashboards, Github

EDUCATION	
Doctor of Philosophy (Ph.D.) Plant Pathology - Iowa State University (ISU), Ames, IA, United States Dissertation: "Modelling yield loss due to soybean sudden death syndrome at different spatial scales."	2019
Graduate Certificate Geographic Information Systems (GIS) - Iowa State University (ISU), Ames, IA, United States Seminar: "Early detection of soybean sudden death syndrome using high-resolution satellite imagery."	2019
Pre-Academic Training English for Graduate Studies – Syracuse University, Syracuse, NY, United States	2015
Master of Science M.Sc. (Hons.) Plant Pathology - University of Agriculture, Faisalabad, Pakistan Thesis: "Exploiting the genetic potential of slow rusting wheat genotypes against Leaf and Stripe rust under epidemiological factors and their bio-rational management."	2014
Bachelor of Science B.Sc. (Hons.) Agriculture - University of Agriculture, Faisalabad, Pakistan	2012
EXPERIENCE	
Postdoctoral Research Fellow - Data Science and Environment	2021 - Current
 Integrated crop and disease models with remote sensing, climate re-analysis data and climate projections. 	
 Developed innovative approaches to understanding abiotic and biotic pressures on crop production under climate change. 	
Data Scientist – Freelance	2020 – 2021
Guided recommendations for Experimental design, Data Collection and Analysis	
Remotely collaborated with different research groups and led the data analysis	
 Facilitated data wrangling, cleaning, and engineering Handled big data analytics and Machine learning tasks 	
 Supported ArcGIS and Remote Sensing based Projects 	
 Created stunning and interactive data visualizations using Dashboards and Geo-Apps 	
Worked with R, Python, Exploratory, ArcGIS Pro, SAS and GeoDA	
 Graduate Research Assistant - Plant Pathology Department of Plant Pathology and Microbiology, ISU Designed and supervised field experiments 	2015 – 2019
 Used ground-based remote sensing and aerial imagery to monitor crop health Surveyed grower fields in Iowa for disease assessment and sampling 	

• Coordinated data collection from field experiments and grower fields in Iowa

 Extracted fungal DNA from soil and roots, conducted qPCR and analyzed data Obtained satellite images, followed by pre-processing and Image Analysis Wrote three technical manuscripts for publication in peer-reviewed journals and over five abstracts for international conferences Led soil sampling and data collection in a collaborative research project Graduate Teaching Assistant - Microbiology Department of Plant Pathology and Microbiology, ISU Facilitated a lab section (24 undergraduate students) of mycology course Assisted instructor in preparing lab material Guided students in the observation and identification of Macro and Micro fungal specimens Graded lab exams, fungal collections, and final exam 	Aug – Dec 2018
LEADERSHIP SKILLS AND SERVICE	
Iowa State University	
President - Pakistan Student Association (PSA)	2017-2018
 Led a group of over 40 Pakistani students at ISU 	
 Represented Pakistani narrative, culture and socio-economic interests at different platforms at ISU 	
Organized social meet-and-greet events	
Improved the participation of Pakistani students in cultural events	
 Chaired monthly meetings to review the association's progress and debate upcoming events 	
 PLPM Department Senator – ISU Graduate and Professional Student Senate (GPSS) Represented and advocated for Plant Pathology and Microbiology graduate students in GPSS Reviewed and participated in debates on ISU policies related to the graduate student body Communicated meeting minutes and information about changes in ISU policies to department faculty and students Vetted funding proposals from graduate students' organizations as a member of Senate Finance committee 	2017-2018
Editor Jowa State Daily (ISD)	2017 2019
 Editor - Iowa State Daily (ISD) Volunteered for 1 year in ISD as a community member 	2017-2018
 Participated in ISD editorial board meetings 	
 Led community discussions by providing insight into pertinent topics 	
 Provided guidance on opinion/editorial pieces during weekly board meetings 	
Vice President - Fulbright Students and Scholars (FSS)	2016-2018
 Led a diverse group of Fulbright scholars from all over the world at ISU 	
Collaborated with Fulbright Association Iowa Chapter in planning and organizing annual dinners,	
tours, and workshops	
 Participated in Fulbright-in-the-Classroom program at Van Meter Community School District, Iowa Assisted the FSS president in managing and leading the organization 	
 Assisted the FSS president in managing and leading the organization 	
President - Plant Pathology Graduate Student Organization	2016-2017
 Led the graduate student body of the Plant Pathology and Microbiology department 	
Planned and organized outdoor events	
 Invited speakers from other universities for departmental seminars 	
 Communicated organization plans and progress in department faculty meetings 	
Vice President - Pakistan Student Association (PSA)	2016-2017
Assisted the PSA president in planning and organization the events and general body meetings	
Represented the organization at different platforms of ISU	
Led the organization in the absence of the PSA president	

HONORS & AWARDS

Second place award in the Spatial Analysis ArcGIS <u>Story Maps</u> category from the 2020 Esri User Conference Map Gallery. San Diego, California.

ulbright Scholarship, United States Department of State	2015-2019	
Predictive Plant Phenomics (P3) scholarship to attend Kansas State Polytechnic's small unmanned aerial systems (sUAS) training		
Graduate Student Seminar Exchange with Michigan State University, East Lansing Third place award in Graduate Student Research Competition (Oral presentation) at 46 th Annual meeting of the Southern Soybean Disease Workers. Pensacola Beach, Florida.		
AAS/Science Program for Excellence in Science. Nominated by Dr. Wendy Wintersteen (President ISU)	2018	
The Charles J. Gould Graduate Student Travel Award, North Central Division (NCD) of The American Phytopathological Society (APS), North Dakota State University, Fargo	2018	
Samma Sigma Delta - The Honour Society of Agriculture, ISU	2018	
Bayer/Isagro Scholarship Award, 63 rd Annual Conference on Soilborne Plant Pathogens, University of California, Davis	2017	
Student Travel Award, NCD - APS, University of Minnesota, Minneapolis	2016	
eath Fellowship, ISU	2015-2016	
eath Assistantship, ISU	2015-2016	
RAININGS AND WORKSHOPS		
Going Places with Spatial Analysis	Sep 24,	
Exploring spatial questions and problems	2020	
Understanding and Comparing Places		
 Determining How Places are Related 		
Finding the Best Locations and Paths		
Detecting and Quantifying Patterns		
Making Predictions		
The Location Advantage	June 12,	
Business, Geography, and the Location Advantage	2020	
Understanding Market Opportunity		
Site Selection: Choosing the Right Location		
Marketing: Understanding Your Customers		
 Location and Supply Chain Management Understanding Risk using Location Based Information 		
Cartography	June 2,	
Multiscale Topographic Maps	2020	
Maths for Map Makers The Language of Craphics		
The Language of Graphics Labels and Composition		
Labels and CompositionGoing 3D		
 Mapping Movement and Change/Animation Maps 		
Spatial Data Science: The New Frontier in Analytics	April 6,	
Deep knowledge of Spatial Data Science	2020	
The Spatial Approach to Predictive Analysis and		
Finding Optimal Locations Using Suitability Models		
Pattern Detection and Clustering		
Object Detection with Deep Learning		
 Communicating Results with Impact – <u>Story Maps</u> 		
23-sponsored sUAS workshop	Dec 6 - 8,	
	Dec 6 - 8, 2019	

 Do-It-Yourself Geo Apps Combined location and narrative in one application to better communicate and broadcast stories. Created custom web applications to solve problems in the community. Built powerful native applications. 	Nov 26, 2019
Getting Started with Geoprocessing Covered key concepts and geoprocessing techniques for spatial data analysis.	Nov 5, 2019
 Getting Started with Spatial Analysis Explored different categories of spatial analysis to answer geographic questions. 	Nov 4, 2019
 Second International Workshop on Machine Learning for Cyber-Agricultural Systems (MLCAS) Covered talks, posters and field visits demonstrating the applications of artificial intelligence and machine learning in agriculture Panel discussion on charting the roadmap for Future MLCAS Research 	Sep 11-12, 2019
 Drone Uses for Agriculture Roadshow in Iowa Discussed current and future uses of drones for agriculture Demonstration of large-area and real-time mapping, subsampling and aerial application using popular models of drones. 	Aug 13, 2019
 ggplot2 graphics with R Hands-on training covering making high-quality graphics in R Explained structuring complex graphics 	May 17, 2016
 Statistical Analysis System (SAS) Workshop Covered a formal introduction to traditional SAS programming Explained procedures that involve some applications and statistical graphics Introduced SAS Enterprise guide 	May 9-11, 2016

• Introduced SAS Enterprise guide

SCIENTIFIC PUBLICATIONS

Di 20	adir, Z.A., A. Idrees, R. Mahmood, G. Sarwar, M. A. Bakar, S. Ahmad, M. M. Raza , J. Li. Effectiveness of ifferent Soft Acaricides against Honey Bee Ectoparasitic Mite <i>Varroa destructor</i> (Acari: Varroidae). Insects 021, 12, 1032. <u>https://doi.org/10.3390/insects12111032</u>
	aza, M. M . Research Compendium: Effectiveness of different soft acaricides against honeybee ectoparasitic ite Varroa destructor. <u>https://doi.org/10.17605/OSF.IO/N895P</u>
	her, A. A., M. A. Ashraf, B. E. Mustafa, M. M. Raza . Epidemiological Trends of Foodborne Campylobacter Jutbreaks in the United States of America, 1998-2016. Food Microbiology. 97: 103751.
ea	i, L., G. Hu, M. M. Raza , Y. Kandel, L. Leandro, D. Mueller. A Gated Recurrent Units (GRU)-based model for arly detection of soybean sudden death syndrome through time-series satellite imagery. Remote Sensing. 12: 621.
	slam, H. M. U., K. Naveed, S. I. Hussain, Q. Shakeel, W. Ashraf, H. A. Anwaar, M. M. Raza , S. Sarfraz, and I. ariq. 2020. First report of brown leaf spot of rice caused by <i>Bipolaris zeicola</i> in Pakistan. Plant Disease.
	aza, M. M ., C. Harding, M. Liebman, L. F. Leandro. 2020. Exploring the potential of high-resolution satellite nagery for the detection of soybean sudden death syndrome. Remote Sensing. 12(7): 1213.
	arding, Chris and M. M. Raza . 2019. GIS data and juptyer Notebook for Random Forest models for soybean udden Death Syndrome (SDS). Iowa State University. Dataset.
Μ	Shuffar, S., G. Irshad, F. Naz, H. B. Rosli, S. Hyder, N. Mehmood, M. A. Zeshan, M. M. Raza , C. G. Mayer, and lark L. Gleason. 2018. First report of two <i>Penicillium</i> spp. causing postharvest fruit rot of grapes in Pakistan. lant Disease 102(5): 1037-1037.
ar	aza, M. M ., M. A. Khan, M. Yaseen, A. Munawar, and Z. Sabir. 2016. Exploring the potential of multivariate nalysis to study the impact of cotton leaf curl disease on yield traits. Pakistan Journal of Agricultural Sciences. 3(3): 507-512.
2015 10. R a	aza, M. M ., M. A. Khan, I. Ahmad, A. A. Bajwa, H. M. U. Aslam, B. A. Ullah, and K. Riaz. 2015. Forest athogens and diseases under changing climate -A Review. Pakistan Journal of Agricultural Research 28 (3): 18-337.
11. M	1. Mohsin, M. M. Raza , J. Shafi, M. Ali. 2015. Integrated fungicidal management for Downy Mildew of Pumpkin <i>Pseudoperonospora cubensis</i>). Bulletin of Advanced Scientific Research.01(01):1-3.

- Fatima, K., M. A. Khan, M. M. Raza, M. Yaseen, M. A. Iqbal, and M. U. Shahbaz. 2015. Identification of resistant source in lentil germplasm against Fusarium wilt in relation to environmental factors. Academic Research Journal of Agricultural Science and Research. 3 (4):60-70.
- Raza, M. M., M.A. Khan, M. Arshad, M. Sagheer, Z. Sattar, J. Shafi, E.u. Haq, A. Ali, U. Aslam, A. Mushtaq, I. Ishfaq, Z. Sabir and A. Sattar. 2014. Impact of global warming on insects. Arch Phytopathol Plant Protect. 48(1):84-94.
 - Ali, M., M. Hussain, M. M. Raza, R. M. M. Khan, W. Hussain, D. Saleem, and H. Abdussamee. 2014. Nutritional and Chemotherapeutic Management Strategies of Powdery mildew in Pumpkin. International Journal of Bioresource and stress management. 5(1):132-137.
 - Ehetisham-ul-Haq, M., F. Anjum, S. Hussain, M. A. Khan, A. Rashid, and M. M. Raza. 2014. Prediction of cotton seedling germination against pre-emergence damping-off on the basis of environmental factors and seedapplied fungicides. Arch Phytopathol Plant Protect.1-10.
 - Nawaz, A., S. Naz, W. Ahmad, J. Shafi, C. Ayyub, M. Atiq, M. M. Raza, M. Ali and S. Asad. 2014. Characterization of Some Quantitative Traits of Locally Developed Tomato Hybrids Under Plastic Tunnels. Universal Journal of Plant Science. 2(3): 69 – 76.
- 17. Raza, M. M., M. A. Khan, M. Atiq, R. Binyamin, and M. Javaid. 2013. Prediction of citrus canker epidemics generated through different inoculation methods. Arch Phytopathol Plant Protect. 47 (11):1335-1348.
 - 18. Raza., M. M. 2013. Threats to agriculture in Pakistan and their remedies under Pakistani environment. National academy of Young Scientists (NAYS) e-magazine. (4):8-10.
 - 19. Raza, M. M., M.A. Khan, K. Riaz, Z. Sattar, A. Ali and A. Abbas. 2013. Impact of Climate Change on Agriculture. National academy of Young Scientists (NAYS) e-magazine. (5).

ABSTRACTS PUBLISHED

2020	1.	Raza, M. M., F. W. Nutter Jr., L. F. Leandro. 2020. Quantifying the relationship between soybean sudden death
		syndrome, pathogen density and yield at different spatial scales. Phytopathology. APS Annual Meeting. August
2019	2.	10 – 14. Virtual. Raza, M. M., S. Eggenberger, F. W. Nutter Jr., L. F. Leandro. 2019. Influence of time of sudden death syndrome
2019	Ζ.	foliar symptom onset on SDS intensity, soybean yield, and yield components. Phytopathology. APS Annual
		Meeting. August 3 – 7. Cleveland, Ohio, U.S.A.
	3.	Raza, M. M., S. Eggenberger, F. W. Nutter Jr., L. F. Leandro. 2019. Early detection of soybean sudden death
		syndrome using high-resolution satellite imagery. Phytopathology. APS Annual Meeting. August 3 – 7.
		Cleveland, Ohio, U.S.A.
	4.	Raza, M. M., S. Eggenberger, F. W. Nutter. Jr., L. F. Leandro. 2019. Early detection of soybean sudden death
		syndrome using high-resolution satellite imagery. Proceedings of the 46 th Annual meeting of the Southern Soybean Disease Workers. March 6-7, 2019. Pensacola Beach, Florida, U.S.A.
2017	5.	Raza, M. M. , S. Eggenberger, F. W. Nutter. Jr., L. F. Leandro. 2017. Can Canopy Reflectance be used for Early
	0.	Detection of Soybean Sudden Death Syndrome? Phytopathology. APS North Central Division Meeting. June 14-
		16. University of Illinois at Urbana Champaign, Illinois, U.S.A.
	6.	Mushtaq, A., M. M. Raza, M. L. Gleason, K. Riaz. 2017. Integrated management of blossom end rot of tomato in
		Faisalabad, Pakistan. Phytopathology. APS North Central Division Meeting. June 14-16. University of Illinois at
2016	7.	Urbana Champaign, Illinois, U.S.A. Raza, M. M., M. A. Khan, M. Yaseen. 2016. Exploring the slow rusting potential of wheat genotypes against leaf
2010	7.	and stripe rust of wheat. Phytopathology. APS Annual Meeting. July 30 – August 3. Tampa, Florida, U.S.A.
	8.	Raza, M. M., Nutter, F. W., Jr., Holah, N., Eggenberger, S. K., Narvaez, D. F., Kelly, H., Isard, S., Wright, D.,
		Marois, J. 2016. Comparison of visual disease assessment versus GIS/remote sensing methods to accurately
		detect the epicenters of Soybean rust foci. Phytopathology. APS North Central Division Meeting. June 7-9.
2045	0	University of Minnesota St. Paul Campus in Roseville, Minnesota, U.S.A.
2015	9.	Raza, M. M., M. A. Khan, M. Yaseen, M. Atiq, A. Mushtaq, A. Ikram, K. Riaz. 2015. Biorational management of leaf rust of wheat caused by <i>Puccinia recondita</i> rob.ex. Desm. f. Sp. <i>tritici</i> . 10 th Biennial International Conference
		of Pakistan Society for Microbiology. March 25-28. Punjab University, Lahore, Pakistan.
	10.	Ikram, A., M. Atiq, S. T. Sahi, A. Mushtaq, M. M. Raza, H. M. U. Aslam. 2015. Potential of Trichoderma
		harzianum and Arbuscular mycorrhizal fungi to manage Fusarium wilt disease in tomato caused by Fusarium
		oxysporum f.sp. lycopersici. 10th Biennial International Conference of Pakistan Society for Microbiology. March
	11	25-28. Punjab University, Lahore, Pakistan.
	11.	Mushtaq, A., S. T. Sahi, M. Atiq, K. Riaz, M. M. Raza , Amna Ikram. 2015. Evaluation of different plant activators for the management of Bacterial leaf spot of Mungbean. 10th Biennial International Conference of Pakistan
		Society for Microbiology. March 25-28. Punjab University, Lahore, Pakistan.
2014	12.	Mushtaq, A., S.T. Sahi, M. Atiq, K.Riaz, M. M. Raza, Parveen. 2014. Optimization of temperature and pH
		requirements of Fusarium oxysporum fsp. / ycopersici causing wilt diseases. 5th international conference on

2014

2013

agriculture, food security and climate change. September 9. The University of Poonch. Rawalakot, Azad Kashmir, Pakistan.

- 13. Raza, M. M., M. A. Khan, K. Riaz and M. Ali. 2014. Biochar, It's impact on plant resistance to biotic stresses. In international workshop on Biochar in Pakistan. Department of Agronomy, University of Agriculture Faisalabad, Pakistan.
- Mushtaq, A., M. Atiq, M. A. Khan, S.T. Sahi, M. M. Raza and M. Javed. 2014. Prevalence of citrus tristeza virus in district Faisalabad and its confirmation through serological techniques. In 3rd International Conference of Pakistan Phytopathological Society, Climate Change and Plant Diseases Challenges and Opportunities. University of Karachi, Karachi, Pakistan.
- Raza, M. M., M.A. Khan, M. Atiq, Z. Sattar, A. Ali, A. Mushtaq and M. Hussain. 2014. Identification of resistant source in wheat lines/varieties against leaf rust (*Puccinia recondita* rob. ex desm. f.sp. *tritici*). In 3rd International Conference of Pakistan Phytopathological Society, Climate Change and Plant Diseases Challenges and Opportunities. University of Karachi, Karachi, Pakistan.
- Raza, M. M., M.A. Khan, Z. Sattar, H.M.U. Aslam, A. Ali and A. Mushtaq. 2014. Impact of changing climate on forest pathogens and diseases. In 3rd International Conference of Pakistan Phytopathological Society, Climate Change and Plant Diseases Challenges and Opportunities. University of Karachi, Karachi, Pakistan.
- Sattar, Z., M.A. Khan, M. M. Raza, H.M.U. Aslam, I. Ashfaq and J. Ahsan. A two environmental variable model to predict powdery mildew on pea caused by *Erysiphe pisi* DC. In 3rd International Conference of Pakistan Phytopathological Society, Climate Change and Plant Diseases Challenges and Opportunities. University of Karachi, Karachi, Pakistan.
- Atiq, M., S. Asad, J. Shafi, W. Ahmad and M. M. Raza. 2014. Impact of different fungicides against charcol rot disease and yield attributes of mungbean. In 3rd International Conference of Pakistan Phytopathological Society, Climate Change and Plant Diseases Challenges and Opportunities. University of Karachi, Karachi, Pakistan.
- Raza, M. M., M.A. Khan, A. Ali, and Z. Sattar. 2013. Evaluation of multiple regression models based on epidemiological factors to predict citrus canker epidemics generated through different inoculation techniques. In KMRC Multidisciplinary Research Conference. Kinnaird College.
- Raza, M. M., M. A. Khan, M. Bilal, U. Naseer, and M. A. Bhatti. 2013. Response of food deteriorating *Penicillium* species to different disinfectants and preservatives. In International conference on emerging issues in Nutrition and Food Safety. National Institute of Food Science and Technology, University of Agriculture Faisalabad.

ORAL PRESENTATIONS

2019	1.	"Early detection of soybean sudden death syndrome using high-resolution satellite imagery." May 9, 2019.
		Michigan State University, East Lansing, Michigan, U.S.A.
	2.	"Early detection of soybean sudden death syndrome using high-resolution satellite imagery." The 6th Graduate
		and Professional Student Research Conference. April 10, 2019. Iowa State University, Ames, Iowa, U.S.A.
	3.	"Early detection of soybean sudden death syndrome using high-resolution satellite imagery." The 46th Annual
		meeting of the Southern Soybean Disease Workers (SSDW). March 6-7, 2019. Pensacola Beach, Florida,
		U.S.A.
	4.	"Impact of sudden death syndrome foliar symptom onset time on final disease intensity, soybean yield, and yield
		components." NCERA137: Soybean Disease Committee Meeting. March 5, 2019. Pensacola Beach, Florida,
		U.S.A.
2018	5.	"Impact of sudden death syndrome (SDS) on soybean health and yield." Graduate College 3 Minute Thesis
		Competition. October 23, 2018. Iowa State University, Ames, Iowa, U.S.A.
2017	6.	"Soybean Sudden Death Syndrome: Variation in disease intensity, pathogen density, canopy reflectance and
		yield at different spatial scales." The 63rd Annual Conference on Soilborne Plant Pathogens and The 49th
		California Nematology Workshop. March 28-30, 2017. University of California, Davis, California, U.S.A.
2016	7.	
		epicenters of Soybean rust foci." APS North Central Division Meeting. June 7-9, 2016. University of Minnesota
		St. Paul Campus in Roseville, Minnesota, U.S.A.
	8.	"Exploring the slow rusting potential of wheat genotypes against leaf and stripe rust of wheat." 3rd Annual
		Graduate and Professional Students' Research Conference. April 12, 2016. Iowa State University of Science
		and Technology, Ames, Iowa, U.S.A.
2015	9.	
		Biennial International Conference of Pakistan Society for Microbiology. March 25-28, 2015. Punjab University,
		Lahore, Pakistan.
2013	10.	"Evaluation of multiple regression models based on epidemiological factors to predict citrus canker epidemics
		generated through different inoculation techniques." Kinnaird multidisciplinary research conference. December
		18-19, 2013. Kinnaird College, Lahore, Pakistan.

POSTER PRESENTATIONS

2013

2020	1.	"Quantifying the relationship between soybean sudden death syndrome, pathogen density and yield at different
		spatial scales." APS Annual Meeting. August 10-14. Virtual Meeting. Denver, Colorado, U.S.A.
2019	2.	"Influence of time of sudden death syndrome foliar symptom onset on SDS intensity, soybean yield, and yield components." APS Annual Meeting. August 3-7. Cleveland, Ohio, U.S.A.
	3.	"Early detection of soybean sudden death syndrome using high-resolution satellite imagery." APS Annual Meeting. August 3-7. Cleveland, Ohio, U.S.A.
2018	4.	"Time of sudden death syndrome foliar symptom onset influences soybean yield." APS North Central Division Meeting. June 12-14. Fargo, North Dakota, U.S.A.
2017	5.	"Can Canopy Reflectance be used for Early Detection of Soybean Sudden Death Syndrome?" APS North Central Division Meeting. June 14-16. University of Illinois at Urbana Champaign, Illinois, U.S.A.
	6.	"Integrated management of blossom end rot of tomato in Faisalabad, Pakistan" APS North Central Division Meeting. June 14-16. University of Illinois at Urbana Champaign, Illinois, U.S.A.
2016	7.	"Exploring the slow rusting potential of wheat genotypes against leaf and stripe rust of wheat." APS Annual Meeting. July 30 – August 3. Tampa, Florida, U.S.A.

POPULAR ARTICLES

National	Langu	age (Urdu)
2013	1.	M. Mohsin Raza, M. Aslam Khan. 2014. Tobacco Mosaic Virus. Zarai Digest, Jan-March 2013.
	2.	M. Mohsin Raza. 2013. Whip Smut of Sugarcane. Engro Behtar Zindagi. Kharif 2013.
	3.	M. Mohsin Raza. 2013. Red Rot of Sugarcane. Engro Behtar Zindagi. Kharif 2013.
2011	4.	Dr. M. Atiq, Dr. Nazir Javed, M. Mohsin Raza, Aadil Nawaz, Zeeshan Iqbal. April-June 2011. Common Scab of
		Potato. Zarai Digest. 46 (02).
	5.	Irfan Ahmad, M. Mohsin Raza, Umair Anwar, S. T. Sahi. March 2011. Global Warming. Zarai Digest. 46 (01).
	6.	Dr. Atiq, Mubashir Ali, Tayyab Ilyas, M. Mohsin Raza, Zeeshan Iqbal, Aadil Nawaz. Feb 2011. Bacterial Wilt of
		Tomato. Niday Kisan. 24 (02).
	7.	Dr. Atiq, Waqas Hussain, Humaira Saeed, Tehmina Javed, M. Mohsin Raza, Aadil Nawaz. Jan 2011. Brown
		Shrank. Niday Kisan. 24 (01).
2010	8.	Hafiz Salman Saeed, M. Mohsin Raza, Umair Anwar, Tahir Munir Butt. July-December 2010. Role of Solar
		Energy in the Rural Development. Zarai Digest Technology Transfer No 2010. 45 (03).
	9.	Dr. Atiq, M. Mohsin Raza , Zeeshan Iqbal, Jawad Khan, Adnan Farid. Dec 2010. Solar Energy and Rural
		Development. Kisan Risala 08 (02).
	10.	Dr. Atiq, M. Mohsin Raza, Aamna Ikram, Aadil Nawaz, M. Sarfraz. Dec 2010. Global Warming. Kisan World. 01
		(12).
	11.	Dr. Atiq, Adnan Hussain, Jamil Shafi, Tehmina Javed, Aadil Nawaz, M. Mohsin Raza. Sep 2010. Black Shrank
	40	of Sweat potato. Niday Kisan. 23 (09).
	12.	Tallat Bilal Yasoob, M. Mohsin Raza, Dr. Atiq, Dr. S.T. Sahi. May 2010. Role of Live Stock in Global Warming.
		Niday Kisan. 23 (05).
Internati	onalla	inguage (English)
2015	1.	
2010		Times. 06(24).
2014	2.	M. Mohsin Raza, Muhammad Aslam Khan, Muhammad Arshad, Zeeshan Sattar, Iqra Ishfaq, Usman Aslam,
		Asim Ali. 2014. Global warming and Insects. NAYS e-Magazine. (06).
	3.	M. Mohsin Raza , Muhammad Aslam Khan, Zeeshan Sattar, and Asim Ali. 2014. Impact of Climate Change on
	•	Rice Production. Rice Plus. Volume 6-Issue 1: 6-7.
	4.	Zeeshan Sattar, Dr. Muhammad Aslam Khan, Igra Ashfaq, and M. Mohsin Raza. Importance of Rice Blast and
		their Management Strategies. Rice Plus. Volume 6-Issue 1: 6-7.
2013	5.	M. Mohsin Raza, Zeeshan Sattar, Muhammad Aslam Khan, Sabir Khan. July 08-21. Constraints in Livestock
		Sector of Pakistan. Technology Times. 04(28-29).
	6.	M.Mohsin Raza. M. Aslam Khan. Zeeshan Sattar. June 24-July 7. Constraints of Citrus Industry in Pakistan.
		Technology Times. 04 (26-27).
	7.	M. Mohsin Raza. June 17-23. The burning abodes. Technology Times. 04(25).
	8.	M. Mohsin Raza. Muhammad Aslam Khan, Karim Yar Abbasi, Kashif Riaz, Fatma Hussain. June 10-16. Need
		to Explore Indigenous Medicinal Plants. Technology Times. 04(24).
	9.	M.Mohsin Raza. M. Aslam Khan. Zeeshan Sattar.May13-May19. Green Energy is the Future. Technology
		Times. 06(20).
	10.	M.Mohsin Raza. Zeeshan Sattar, Asim Ali, Aiman, Iqra Ishfaq and Zarnab. Feb-April. Climate Change and
		Forest Diseases NAVC - Maraning (02)

Forest Diseases. NAYS e-Magazine. (03). 11. **M. Mohsin Raza.** Nov 2012 - Jan 2013. Climate Change and Diseases of Food Crops. NAYS e-Magazine. (02).

- 12. Dr. M. Atiq, Dr. Nazir Javed, M. Mohsin Raza, Aadil Nawaz, Zeeshan Iqbal. May. Tourism in Pakistan. Kisan Risala. 13 (02).
- Dr. Atiq, Dr. M. Aslam Khan, Dr. Nazir Javed, Amana Ikram, M. Mohsin Raza, Aleena Mushtaq. May. Pakistan's Agriculture Challenges & Suggestions. Kisan Risala. 13 (02).
 Dr. Atiq, Dr. Shahbaz Talib Sahi, Dr. Nazir Javed, M. Mohsin Raza. A Hanging Sword on Pakistan Agricultural Example 10 (02).
- Economy. Kisan Risala. 10 (02).

2011