

Dr. ASIF AMEEN



Personal Biodata

Date of Birth: October 27, 1988
CNIC No: 32201-1468056-1
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Domicile: Layyah, Punjab
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Education Background

Doctorate **Ph.D. Crop Science - Crop Cultivation & Farming System**
China Agricultural University, Beijing, China
September 2014 – June 2018
CGPA: 3.55/4.00

Masters **M.Sc. (Hons.) Agriculture - Agronomy**
University of Agriculture, Faisalabad, Pakistan
September 2011 – September 2013
CGPA: 3.88/4.00 (80.23%)

Bachelor **B.Sc. (Hons.) Agriculture - Agronomy**
University of Agriculture, Faisalabad, Pakistan
September 2007 – July 2011
CGPA: 3.73/4.00 (78.02%)

Intermediate **F.Sc. (Pre- Medical)**
Govt. College Chowk Azam (Layyah)
September 2004– August 2006
Marks: 773/1100 (70.27%)

Matriculation **Secondary School Certificate (Science)**
Govt. Muslim High School Chowk Azam (Layyah)
May 2002– July 2004
Marks: 625/850 (73.53%)

Ph.D. Thesis Title

Sustainable production of energy sorghum and switchgrass on nutrient demand and supply basis in semiarid sandy wasteland

Publications

1) Research Papers

a) Papers Published in SCI-Journals

- **Ameen A**, Tang C, Han L, Xie GH (2018) Short-term response of switchgrass to nitrogen, phosphorus, and potassium on semiarid sandy wasteland managed for biofuel feedstock. Bioenergy Research, 11:228-238. **(IF: 2.938)**
- **Ameen A**, Yang X, Chen F, Tang C, Fu D, Fahad S, Xie GH (2017) Biomass yield and nutrient uptake of energy sorghum in response to nitrogen fertilizer rate on marginal land in a semi-arid region. Bioenergy Research, 10:363-376. **(IF: 2.938)**
- Chen F, **Ameen A**, Tang C, Fu D, Yang X, Xie GH (2017) Effects of nitrogen fertilization on soil nitrogen for energy sorghum cultivation on marginal land in Inner Mongolia, China. Agronomy Journal, 109:636-645. **(IF: 1.897)**
- Tang C, Yang X, Chen X, **Ameen A**, Xie GH (2018) Sorghum biomass and quality and soil nitrogen balance response to nitrogen rate on semiarid marginal land. Field Crops Research, 215:12-22. **(IF: 3.127)**
- Tang C, Sun C, Fu D, Chen F, **Ameen A**, Xie GH (2017) Effect of plant density on sweet and biomass sorghum production in semiarid marginal land. Sugar Tech, 20:312-322. **(IF: 0.807)**
- Amin A, Nasim W, Mubeen M,, **Ameen A**, et al. (2017) Optimizing the phosphorus use in cotton by using CSM-CROPGRO-cotton model for semi-arid climate of Vehari-Punjab, Pakistan. Environmental Science and Pollution Research, 24:5811-5823. **(IF: 2.800)**
- Waris MI, Ali S, Qamar MT, Liu H, **Ameen A**, Zeng FF, Abdelnabby H, Younas A, Wang MQ (2018) Silencing of chemosensory protein gene NlugCSP8 by RNAi induces declining behavioral responses of *Nilaparvata lugens*. Frontiers in Physiology, 9:379. **(IF: 3.394)**
- Amin A, Nasim W, Mubeen M,, **Ameen A**, et al. (2018) Regional climate assessment of precipitation and temperature in Southern Punjab (Pakistan) using SimCLIM climate model for different temporal scales. Theoretical and Applied Climatology, 131:121-131. **(IF: 2.321)**

b) Papers Under-process in SCI-Journals

- **Ameen A**, Liu J, Han L, Xie GH. Effects of nitrogen rate and harvest time on biomass yield and nutrient cycling of switchgrass and soil nitrogen balance in a semiarid sandy wasteland. Industrial Crops and Products **(Under-Review)**
- Diallo B, Meng L, Tang C, **Ameen A**, Xie GH. Effect of genotype, planting density and nitrogen application rate on biomass feedstock quality of energy sorghum cultivated on marginal lands. Agronomy Journal **(Re-Submitted after Major Revision)**
- Adeel M, Zain M, Rizwan M, **Ameen A**, Fahad S, Yi H, Baluch MA, Yinn LJ, Rui Y. Analysis of Natural and synthetic estrogens in leafy vegetable and their risk associated to human health. Environmental Science and Pollution Research **(Under-Review)**

c) Manuscripts In-preparation for submission to SCI-Journals

- **Ameen A**, et al. Effects of nitrogen rate and harvest time on switchgrass dry matter partition, biomass and forage quality, and soil nitrate content in semiarid marginal land. (A manuscript

being prepared for submission to *Field Crops Research*)

- **Ameen A**, et al. Long-term switchgrass plantation effects on soil moisture, pH, organic carbon and total and mineral nitrogen in a semiarid sandy wasteland. (A manuscript being prepared for submission to *Journal of Soil Science and Plant Nutrition*)

2) Abstracts Published in National & International Conferences

- Aslam Z, **Ameen A**, Ehsanullah, Zaman Q, Rehman M (2013) Performance of different rice cultivars in direct seeding at various seeding densities. In: Sustainable Crop Productivity: Threats and Options. 3rd Int. Conf. Pak. Soc. Agron., April 11-12, 2013, Ayub Agricultural Research Institute, Faisalabad, Pakistan, p. 45.
- Hussain S, **Ameen A**, Rehman M, Zaman Q (2013) Variation in germination and early seedling growth of wheat cultivars under salt stress. In: Agriculture in Arid Environment. Conference on Food Security in Arid Environment, March 25-26, 2013, Bahadur sub-campus Layyah, Bahauddin Zakariya University, Pakistan, p. 26.
- Aslam Z, Zaman Q, Ehsanullah, Rehman M. **Ameen A** (2013) Evaluation of different cultivars in DSR sown at various seeding depths. In: Sustainable Crop Productivity: Threats and Options. 3rd Int. Conf. Pak. Soc. Agron., April 11-12, 2013, Ayub Agricultural Research Institute, Faisalabad, Pakistan, p. 46.
- Saifullah, Ullah MS, Hussain S, **Ameen A** (2013) Role of plant community composition (monoculture and mixture) in cereal crops grown under drought stress. In: Crop Modeling – An Artistic Tool for Risk Management in Agriculture. AgMIP – Pakistan Kickoff Workshop & International Seminar on Climate Change, June 4-6, 2013, UAF, Pakistan, p. 67.
- Rehman M, Khaliq T, Hussain J, Awais M, **Ameen A**, Zaman Q (2013) Effect of different planting times on spring soybean. In: Sustainable Crop Productivity: Threats and Options. 3rd Int. Conf. Pak. Soc. Agron., April 11-12, 2013, Ayub Agricultural Research Institute, Faisalabad, Pakistan, p. 144.

3) Online Popular English Articles

- **Ameen A**. (2013) Role of humic acid in improving soil quality and plant health. <https://agrihunt.com/articles/basics-of-agriculture/asif-ameen/>
- **Ameen A**, Zaman Q. (2013) Problems of agriculture in Pakistan and their remedies. <https://agrihunt.com/articles/basics-of-agriculture/asif-ameen-qamar-uz-zaman-2/>

Research Interests

- Field crop production
- Energy and forage crops
- Identifying suitable cellulosic energy crops adapted to wide range of soils and climates
- Developing best management practices for sustainably growing and harvesting energy crops
- Biomass characterization and forage nutritional value
- Impact of energy and forage crops cultivation on soil nutrients & soil structural properties
- Plant nutrition, soil fertility, soil carbon sequestration
- Soil-plant nutrient cycling and interactions
- Crop stress physiology (drought, salinity, cold/heat) and stress mitigation

Research Skills

1) Chemical analyses

Chloroform fumigation extraction; Soil organic carbon and microbial biomass carbon using TOC analyser; Compact pH meter DDS-307 for soil pH, KCL extraction indophenols blue colorimetric method; Continuous flow analyser for soil NO_3^- and NH_4^+ -nitrogen; Kjeldahl digestion with H_2SO_4 - H_2O_2 for plant nutrient analysis; Semimicro-Kjeldahl digestion and distillation method for total plant and soil nitrogen; Induced couple plasma (iCAP method) for macro- and micronutrients; Anthrone/sulfuric acid (H_2SO_4) method for soluble sugars; NDF, ADF and ADL determination using Ankom apparatus; Extraction of structural carbohydrates (glucose, xylose, and arabinose), lignin (acid-soluble and -insoluble), and ash using two-step H_2SO_4 hydrolysis process and quantification using HPLC

2) Biochemical/biological analyses

Spectrophotometer and HPLC applications, antioxidant enzyme and non-enzyme activities, respiration rate, photosynthetic activity, starch metabolism (α -amylase activity, total soluble sugars), lipid peroxidation (MDA content), free proline content, etc.

3) Molecular applications

Polymerase Chain Reaction (PCR) methods and application

Working Experience

- Four years' research experience (field trials and laboratory experimentation) in Department of Agronomy, China Agricultural University, Beijing during Ph.D. degree (Sep 2014–July 2018)
- Good hand in data and project management, and excellent written and communication skills

Academic Distinctions, Awards & Achievements

- **First division** throughout the academic career
- Top 10% **Merit scholarship holder** during Master's degree
- Awarded **Punjab Educational Endowment Fund (PEEF) scholarship** by the Govt. of Punjab on the basis of excellent achievements in graduation (A financial support for master's degree)
- Granted **fully funded PhD scholarship by China Scholarship Council**, Ministry of Education, People's Republic of China
- Granted **fully funded PhD scholarship by "TUBITAK"** (The Scientific and Technological Research Council), Turkey

Membership of Learned Societies

- Premium member of Pakistan Agricultural Scientists Forum (PAS-Forum)
- Scientists/Educationist member of Pakistan Society of Agronomy (PSA)

Short Courses and Academic & Social Activities

- Two Weeks Course of Instructions in **Allelopathy for Crops** under Division of Education and Extension, University of Agriculture, Faisalabad

- Two Weeks Course of Instruction in **Saline Sodic Soils Problems and Management** under Division of Education and Extension, University of Agriculture, Faisalabad
- Two Weeks Course of Instruction in **Crop Management on Problem Soils** under Division of Education and Extension, University of Agriculture, Faisalabad
- **Certificate of Participation in Career Development Workshop** organized by The Agrarian Society & CDC, University of Agriculture, Faisalabad
- Selected as **Pakistani Ambassador** by China Agricultural University for “**One Belt One Road Summer Camping**” organized by Beijing Youth Federation
- **Certificate of Cricket Final Winner** in sports gala held by Institute of Horticultural Sciences, University of Agriculture, Faisalabad
- **Certificate of 5 kilometer running race winner** held at Olympic green park, Beijing by a Health Fitness Chinese Company
- **Certificate of participation in “Pakistan Students Badminton Competition”** held at China Agricultural University (CAU), Beijing
- **Certificate of participation in “Cricket Tournament”** held at Beijing Language and Culture University (BLCU), Beijing

Information Technology Skills

Word processing (MS Word), Spread sheet (MS Excel), Presentation (MS PowerPoint), Statistical softwares (Statistix 8.1, SPSS Statistics 21), Graphical softwares (SigmaPlot, Origin Pro), Windows installation (XP Professional, Windows Vista and Windows 7, 8, and 10), Full ability to access internet (Email, Surfing, Chatting)

References

Dr. Guanghui Xie

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