

## Curriculum Vitae

### **Dr. Nasrin Sultana**

Professor

Department of Agroforestry and Environmental Science

Field of Specialization: Environmental Science

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### **Educational Qualification**

- A. PhD in Environmental Science [03/2015 to 08/2020]:** From the Institute of Soil Science, Chinese Academy of Sciences, No. 71, East Beijing Road Xuan-Wu District, Nanjing city, Jiangsu Province, 210008, P.R. China.
- B. Master of Science in Genetics and Plant Breeding [01/2006-12/2007]:** From Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh CGPA 3.89 out of 4.00.
- C. Bachelor of Science in Agriculture (Honors') [2000-2003] with First class Sixth position** from Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.

### **Research Publications**

1. Akhi Akter, Md. Forhad Hossain, Jubayer-Al-Mahmud, **Nasrin Sultana**, Md. Maruf Hasan and Tahira Begum. 2023. Cauliflower Cultivation on Rooftop Garden Using Various Composts: Morphological and Economic Analysis. *Journal of Agroforestry and Environment*. 16(1):145-159.
2. **Sultana N**, Zhao J, Cai Y F, Rahman G K M M, Alam M S, Faheem M, Ho A, Jia Z J. 2021. Methanotrophy-driven accumulation of organic carbon in four paddy soils of Bangladesh. *Pedosphere*. 32(2): 348–358. [**SCI, IF: 5.514**].
3. **Nasrin Sultana**, Jun Zhao, Yan Zheng, Yuanfeng Cai, Muhammad Faheem, Xianlong Peng, Weidong Wang and Zhongjun Jia. Stable isotope probing of active methane oxidizers in rice field soils from cold regions. *Journal of Biology and Fertility of Soils*. 2019. 55(3):243–250. [**SCI, IF: 7.116**].
4. Muhammad Faheem, Sadaf Shabbir, Jun Zhao, Philip G Kerr, **Nasrin Sultana** and Zhongjun Jia. 2020. Enhanced Adsorptive Bioremediation of Heavy Metals (Cd<sup>2+</sup>, Cr<sup>6+</sup>, Pb<sup>2+</sup>) by Methane-Oxidizing Epipelton. *Journal Microorganisms*. 505(8): 1-17. [**SCI, IF: 5.143**].
5. Muhammad Faheem, Sadaf Shabbir, Jun Zhao, Philip G Kerr, Shafaqat Ali, **Nasrin Sultana** and Zhongjun Jia Multifunctional Periphytic Biofilms: Polyethylene Degradation and Cd<sup>2+</sup> and Pb<sup>2+</sup> Bioremediation under High Methane Scenario. *International Journal of Molecular Sciences*. 2020. 21(5331): [**SCI, IF: 6.628**].
6. M. Mizanur Rahman, Kamrun Nahar, Md. Meraj Ali, **Nasrin Sultana**, Mohammad Minnatul Karim, Utpal Kumar Adhikari, Mamoona Rauf and Md. Abul Kalam Azad.2020. Effect of Long-Term Pesticides and Chemical Fertilizers Application on the Microbial Community Specifically Anammox and Denitrifying Bacteria in Rice Field Soil of Jhenaidah and Kushtia District, Bangladesh. *Bulletin of Environmental Contamination and Toxicology*. v:104(5): [ **SCI, IF: 2.807**].
7. Jasim Uddain , Sanzida Islam Tripti, Mohammad Shah Jahan , **Nasrin Sultana**, Md Jahedur Rahman and Sreeramanan Subramaniam. 2019. Changes of Morphological and Biochemical Properties in Organically Grown Zucchini Squash (*Cucurbita pepo* L.). *J HortScience* 54(9):1485-1491. [**SCI, IF: 1.455**].

8. **N Sultana**, J A Mahmud and A H M Solaiman. 2012. Study on Plant Diversity in Sher-e-Bangla Agricultural University Campus. *J. Sher-e-Bangla Agric. Univ.* 6(2): 7-19. [ISSN 1997-6038].
9. **N Sultana**, T Tanjin and J Uddain. 2012. Growth and Yield Performance of Chinese Cabbage under different types of Mulching (*Brassica campestris* var. *Pekinensis*). *Bangladesh J. Agriculturist.* 5(1): 13–22. [ISSN 1812-4631].
10. **N Sultana** and M S Alam. 2011. Yield Performance of Ten Mungbean Genotypes at Magura SubStation of BINA. *J. Sher-e-Bangla Agric. Univ.* 5(2): 46-52. [ISSN 1997-6038].
11. **N Sultana**, M S R Bhuiyan and S Hossain. 2010. Genetic Divergence of Chilli (*Capsicum frutescens* L.). *Bangladesh J. Agriculturist.* 3(1): 21-25. [ISSN 1812-4631].
12. **N Sultana**, M S Hossain and M S R Bhuiyan. 2010. Genetic Variability and Character association of Chilli (*Capsicum frutescens* L.). *J. Sher-e-Bangla. Agric. Univ.* 4(2):31-35. [ISSN 1997-6038].
13. Faheem M, Raza W, Jun Z, Sabbir S and **Sultana N**. 2015. Characterization of the newly isolated antimicrobial strain *Streptomyces goshikiensis* YCXU. *Sci. Lett.* 2015; 3(2): 94-97.
14. A S M F Bari, M A Khan, S Sultana, M Hasanuzzaman and **N Sultana**. 2013. Effect of various Organic Manure and Inorganic Fertilizer with different Water Management of the Growth and Yield of Boro Rice. *J. Experimental Biosciences.* 4(2): 1-6. ISSN 2223-9626 (Online), ISSN 2077-3358 (Print).
15. M A Hossain, M I Hossain, M A Ali, M S Islam and **N Sultana**. 2013. Effect of Organic Manure and Phosphorus on the growth and yield of Lettuce (*Lactuca sativa* L). *Int. J Sustain. Agril. Tech.* 9(1):114-121. [ISSN 1815-1272].
16. M Biswas, A H M M Rahman Talukder, **N Sultana**, M A Hossain and S Roy. 2012. Study on Intercropping Cotton with Mungbean and Blackgram Planted in Different Patterns. *Bangladesh J. Agriculturist.* 5(1): 23–26. [ISSN 1812-4631].
17. M A Ali, T Parvin, **N Sultana**, M M-UL-Hasan and A I Saki. 2012. Effect of Potassium and Boron on Growth and Yield of Tomato (*Lycopersicon esculentum* Mill). *J. Sub trop. Agric. Res. Dev.* 10(2):992-998[ISSN 1811-8976].
18. A Hossain, A K Chowdhury, M M Islam, **N Sultana** and M R Talukder. 2011. Salt Tolerance of Rice at Seedling stage. *Eco-Friendly Agril. J.* 4(12): 764-767. [ISSN 1999-7957].
19. T Tanjin, **N Sultana** and J Uddain. 2010. Effect of Planting Density on the Growth and Yield of Chinese Cabbage (*Brassica campestris* var. *pekinensis*). *J. Sher-e-Bangla Agric. Univ.* 4(2):94-101. [ISSN 1997-6038].
20. M A Rahman, M S Zaman, M A Monim, A B M S Islam and **N Sultana**. 2010. Effect of Fertilizers in combination with Organic Manure on the Yield Performance of Turmeric. *J. Agrofor. Environ.* 4(2):155-158.[ISSN 1995-6983].
21. M Biswas, A H M M Rahman Talukder, M A Haque, A K M H Rahman and **N Sultana**. 2010. Study on Okra-Kaon Intercropping Systems under Different Row Arrangements. *Bangladesh J. Agriculturist.* 3(2): 141-144. [ISSN 1812-4631].
22. M A Rahman, M S Zaman, M M Kadir, M A Monim, and **N Sultana**. 2010. Effect of Sulphur and Boron on the Yield Performance of Mustard (BARI Sarisha 14). *J. Environ. Sci. & Natural Resources.* 3(2): 51-54. [ISSN 1999-7361].

### **Professional Training/Conference/Workshops attended in last 5 years:**

- a.** Participated as a presenter of research works findings in “Annual Research review Workshop 2023” organized by SAURES from 20-21 December at Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
- b.** Attended in 2 days International Symposium on “Nature for Sustainable Development” in association with IAP-AASSA” from 07-08 October 2023 at Science and Technology Complex, Bangladesh. Academy of Sciences, Agargaon, Dhaka, Bangladesh.
- c.** Attended a thematic session focusing on “climate risk financing options for landscape resilience” on behalf of World Food Programme (WFP) and the Food and Agriculture Organization of the United Nations (FAO) which, organized by Bangladesh Agricultural Investment Forum (BAIF) in 28 August 2023 in the Pearl Room of the InterContinental Hotel in Dhaka, Bangladesh.
- d.** Participated a 5 days capacity building training on “Scaling up Climate Ambition on Agriculture, Forestry and Land Use Using: Nationally Determined Contribution Expert Tool (NEXT)” from 19-23 March 2023 at Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh.
- e.** Successfully participated an International Conference on Climate Smart Agriculture: "Climate Smart Agriculture for a Resilient Coastal Bangladesh OKP-BDG-103561" from 15-16 February 2023 at Patuakhali science and Technology University (PSTU), Patuakhali, Bangladesh.
- f.** Successfully completed an “International Training on Need, Scope, Process and Importance of Germplasm Exchange" from 05-06 December 2021 at BSMRAU, Gazipur, Bangladesh.
- g.** Attended in 2 days “2019 ANSO Young Scientists Forum and Zhejiang International Science and Technology Cooperation Conference” as a participants Hangzhou, China from 09 to 10th November, 2019.
- h.** Successful E-poster presentation in the "11th International Conference on the Establishment of Cooperation Between Companies and Institutions in the Nordic Countries, the Baltic Sea Region and the World, Linnaeus Eco-Tech-2018 conference from 19th-21st November, 2018 at Brofästet, Kalmar, Sweden.
- i.** Participated as a poster presenter in the 11th International Symposium on Agriculture and the Environment since 14-18th October, 2018, Nanjing, China.
- j.** For successful participation on the "7th International Symposium on Geological Microbiology" and performed a poster presentation during from 8 to 11 June, 2018 in Shanghai, China.
- k.** Attended in 3 days “Second International conference on The Applied Microbiology and Beneficial Microbes” as a Poster presenter in Osaka, Japan from 23 to 25th October, 2017.
- l.** Participated in 5-days International Conference on “The Second Global Soil Biodiversity ”and performed a Poster presentation during 14-19th October 2017 in Nanjing, China.
- m.** Attended a Symposium on “Soil Biodiversity in a rapidly changing world” in 20th October, 2017 at Institute of Soil Science, Chinese Academy Sciences, Nanjing, China.
- n.** Participated a Symposium on “Frontiers in Plant-Microbiomes Interaction” in 20th March, 2017 at Institute of Soil Science, Chinese Academy Sciences, Nanjing, China.

### Professional membership:

- Life-time member of Genetics and Plant Breeding Society, Bangladesh
- Alumni of Sher-e-Bangla Agricultural University, Dhaka, Bangladesh
- General member of Agronomy and Weed Science Society, Bangladesh
- General member of Soil Science Society, Bangladesh and America

### Research grants:

- 2021-22: As Principal investigator (PI). Fund: 200000 taka funded by Ministry of Science and Technology. Project status: completed.
- 2021-22: As Principal investigator (PI). Fund: 300000 taka funded by University Grants Commissions Bangladesh (UGC). Project status: completed.
- 2021-22: As Principal investigator (PI). Fund: 100000 taka funded by Sher-e-Bangla Agricultural University Research System (SAURES). Project status: completed.
- 2022-23: As Principal investigator (PI). Fund: 150000 taka funded by Sher-e-Bangla Agricultural University Research System (SAURES). Project status: completed.
- 2023-24: As Principal investigator (PI). Fund: 175000 taka funded by Sher-e-Bangla Agricultural University Research System (SAURES). Project status: Completed
- 2024-25: As Principal investigator (PI). Fund: 150000 taka funded by Sher-e-Bangla Agricultural University Research System (SAURES). Project status: On going

### Awards:

- 2015-2020: Awarded by “The Organization for Women in Science for the Developing World (OWSD)” Fellowship for pursuing PhD in China.
- 2016-2019: Awarded by the “Nanjing Municipal Govt. Scholarship as Excellent International Student” for research activity.

### Degree oriented experience:

- Shariful Alam--Master’s supervisor (Completed)
- Md Harun-ur--Rashid- Master’s co-supervisor (Completed)
- Dil Jahan-- Master’s supervisor (Completed)
- Jannatul Nesa-- Master’s co-supervisor (Completed)
- Rakiba Yesmin-- Master’s supervisor (Completed)
- Mst. Arafat Jahan Mimi-- Master’s supervisor (Completed)
- Halima Akter-- Master’s co-supervisor (Completed)
- Md Samiul Houque--Master’s supervisor (On-going)
- Emtiaz Ahmed--Master’s supervisor (On-going)
- Md. Feroz Miah-- Master’s supervisor (On-going)
- Md. Waliul islam— Master’s supervisor (On-going)
- Md. Rashed Hasan— Master’s supervisor (On-going)
- Habiba Jannat Tithi-- Master’s supervisor (On-going)

#### **Dr. Zhongjun Jia**

##### **Professor**

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