

# CURRICULUM VITAE

## **MD NAYEM HASAN MUNNA**

Ph.D. Candidate in Soil Science

School of Environment and Natural Resources

The Ohio State University 2021 Coffey Road, Columbus, OH 43210, USA

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### **CAREER VISION**

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To advance soil science, sustainable land management, and ecological restoration through rigorous, collaborative research. My goal is to develop practical solutions that strengthen climate resilience, food security, environmental sustainability, and human well-being.

### **EDUCATION**

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| Name of Degree | Passing Year            | Institute                    | Group/Subject                                                          | CGPA/GPA                 |
|----------------|-------------------------|------------------------------|------------------------------------------------------------------------|--------------------------|
| Ph.D.          | Fall 2026<br>(Expected) | The Ohio State<br>University | Soil Science<br>(School of<br>Environment and<br>Natural<br>Resources) | 3.91 (Current)           |
| M.S.           | 2023                    | University of<br>Barishal    | Soil and<br>Environmental<br>Sciences                                  | 3.98 (on a 4.0<br>scale) |
| B.S. (Hons)    | 2021                    | University of<br>Barishal    | Soil and<br>Environmental<br>Sciences                                  | 3.85 (on a 4.0<br>scale) |
| H.S.C.         | 2013                    | Narayanganj<br>College       | Science (Physics,<br>Chemistry,                                        | 4.90                     |

|        |      |                         |                                                                             |      |
|--------|------|-------------------------|-----------------------------------------------------------------------------|------|
| S.S.C. | 2011 | Narayanganj High School | Mathematics, Biology)<br>Science (Physics, Chemistry, Mathematics, Biology) | 5.00 |
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## LANGUAGE PROFICIENCY

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- Bengali: Mother's tongue
- English: Excellent proficiency in speaking, writing, reading, and listening
- Arabic: Proficiency in reading is good

## RESEARCH EXPERIENCE

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### Graduate Research Associate (2024 – Present)

School of Environment and Natural Resources, CFAES Rattan Lal Center for Carbon Management and Sequestration, The Ohio State University

- Conducting fully funded Ph.D. research on soil physical quality and sustainable land management using long-term no-tillage experimental plots.
- Measuring soil properties, including saturated hydraulic conductivity, bulk density, penetration resistance, aggregate stability, porosity, and soil water retention.
- Developing a Soil Physical Quality Index (SPQi) to evaluate soil health and sustainability under organic amendments.
- Collaborating on manuscripts, book chapters, and international conferences.

### Master's Thesis Research (2021 – 2023)

University of Barishal, Bangladesh

- Researched production and characterization of acid-modified biochars and their effect on saline soil properties and crop growth.

- Designed experiments, performed soil chemical/physical analysis, and contributed to a co-authored original article.

### **Undergraduate Research Projects (2019 – 2021)**

University of Barishal, Bangladesh

- Contributed to projects on riverbank erosion impacts, water quality deterioration, environmental impact assessments, and coastal adaptation to salinity intrusion.
- Roles included field surveys, lab analysis, data interpretation, and reporting.

### **TEACHING AND MENTORSHIP EXPERIENCE**

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#### **Graduate Teaching Associate (TA) - ENR/FABE 5310: Ecological Engineering and Science**

*School of Environment and Natural Resources and Department of Food, Agricultural and Biological Engineering, The Ohio State University*

**Spring 2026**

- Assisted in teaching an upper-level undergraduate and graduate course on ecological engineering, ecosystem restoration, and nature-based solutions.
- Managed Zoom sessions, recordings, and lecture uploads to CarmenCanvas within 24 hours of each class.
- Led grading of homework, midterm exams, and group projects using instructor-provided rubrics and provided constructive feedback within one week.
- Maintained the CarmenCanvas gradebook, tracked participation, and managed SLDS (Student Life Disability Services) accommodation records.
- Served as the primary student contact for homework and technical questions, offering timely support and one-on-one guidance.
- Collaborated with instructors to ensure clear communication, fair assessment, and smooth course operation throughout the semester.

**Lab Instructor and Mentor (Soil Science Laboratory and Field Work)***Soil and Environmental Sciences, University of Barishal, Bangladesh***January 2023**

- Guided students in soil sampling techniques from agricultural fields, ensuring proper field design, depth-specific sampling, and accurate handling for laboratory analysis.
- Instructed undergraduate students in laboratory experiments on soil properties, including texture, bulk density, pH, EC, organic matter, and nutrient content.
- Supervised undergraduate students in data collection, statistical analysis, and report preparation, strengthening their research and technical skills.

**SCHOLARLY PUBLICATIONS**

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**Published**

1. **Munna, M. N. H.,** and Lal, R. (2026). Soil physical quality index under long-term organic no-tillage management in central Ohio. *Soil Science Society of America Journal*, 90, e70266. <https://doi.org/10.1002/saj2.70266>
2. **Munna, M. N. H.,** and Lal, R. (2026). Long-term organic inputs effects on soil carbon and nitrogen sequestration in a temperate agroecosystem. *Soil Use and Management*, 42, e70161. <https://doi.org/10.1111/sum.70161>
3. **Munna, M. N. H.,** and Lal, R. (2026). Impacts of Tillage on Soil's Physical and Hydraulic Properties in Temperate Agroecosystems. *Sustainability*, 18(2), 1083. <https://doi.org/10.3390/su18021083>
4. **Munna, M. N. H.,** Tanu, F. Z., Mia, S., Shapna, N. A., Hakim, A., and Lal, R. (2025). Reclaiming saline soil by using acid-modified pineapple biochar. *Archives of Agronomy and Soil Science*, 71(1), 1–16. <https://doi.org/10.1080/03650340.2025.2579235>
5. **Munna, M. N. H.,** and Lal, R. (2025). Impacts of cover cropping and organic amendments on soil physical quality under temperate climate. *Cogent Food and Agriculture*, 11, 2467452. <https://doi.org/10.1080/23311932.2025.2467452>
6. **Munna, M. N. H.,** Shapna, N. A., and Lal, R. (2025). Mitigation of arsenic poisoning through soil and water management in Bangladesh. In R. Lal and M. Hussain (Eds.), *Soil*

and human health: Food as medicine. Taylor and Francis.  
<https://doi.org/10.1201/9781003469742-10>

7. Mia, S., Bristy, S. Y., Jindo, K., **Munna, M. N. H.**, Rahman, M. M., Uddin, K., Kasim, S. B., and Rahman, M. S. (2024). Potential health risks associated with biochar—from production to field application. In P. V. Nidheesh, M. Vithanage, V. Sreedharan, N. Bolan, B. Gao, and A. Bhatnagar (Eds.), *Biochar amendments for environmental remediation* (pp. 293–304). CRC Press. <https://doi.org/10.1201/9781003344803-28>

### In Press (Accepted)

8. Tanu, F. Z., Shapna, N. A., Khan, M. S., Hakim, A., Parvin, A., **Munna, M. N. H.**, Begum, M., and Moniruzzaman, M. (2026). Ecological and human health risks in mangrove and non-mangrove ecosystems. *Earth Systems and Environment*.
9. Mitu, E. K., **Munna, M. N. H.**, Khatun, S., Haque, H. A., and Lal, R. (2026). Impacts of vessel-generated waste on seasonal dynamics of water quality in the Kirtonkhola River, Bangladesh. *Open Life Sciences*. Manuscript under revision.
10. **Munna, M. N. H.**, Shapna, N. A., Tanu, F. Z., Mia, S., Hakim, A., Yeasmin, T., Islamzade, R., Piash, M. I., and Lal, R. (2027). Physicochemical properties of biochar and their role in the remediation of salt-affected soils. In R. Lal and J. Lehmann (Eds.), *Biochar and soil health in the tropics*. CRC Press.

### Under Review

11. Shapna, N. A., **Munna, M. N. H.**, and Lal, R. (2026). Artificial intelligence for evaluating soil health. In R. Lal and M. Hussain (Eds.), *AI and Soil Health*. Taylor and Francis.
12. Adil, M., Maitah, M., Bashir, S., **Munna, M. N. H.**, Gul, I., and Tao, Y. (2026). Long-term moderate nitrogen with no-till straw enhances soil carbon and regulates nitrous oxide in global dryland maize: A meta-analysis. *Soil Use and Management*. Manuscript submitted for publication.
13. Adil, M., Maitah, M., Bashir, S., Leghari, A. M., **Munna, M. N. H.**, Gul, I., and Tao, Y. (2026). Enhancing soybean resilience to multi-stress environments via root exudate

modulation, physiological mitigation, and genetic resilience. Food and Energy Security. Manuscript submitted for publication.

14. Nazar, M. S., Ashraf, M., Sattar, M. N., Rizwan, M. S., Ghafoor, A., and **Munna, M. N. H.** (2026). Growth and physiological responses of maize (*Zea mays* L.) to selenium supplementation under brackish water irrigation in alkaline calcareous soil. Journal of Agriculture and Food Research. Manuscript submitted for publication.
15. Alam, M. J., Uddin, M. K., **Munna, M. N. H.**, Kasim, S., Zaibon, S., Jais, F. M., Hoque, K. M. S., Abu Bakar, M. W. B., and Lal, R. (2026). Hydrochar from agricultural waste for soil improvement and crop production. Cogent Food and Agriculture.
16. Bakar, M. W. B. A., Uddin, M. K., **Munna, M. N. H.**, Zaibon, S., Roslim, M. H., Umor, N. A., and Alam, M. J. (2026). Effects of treated spent mushroom substrate on soil physicochemical properties and growth performance of *Zea mays* L. Journal of Soil Science and Plant Nutrition.
17. Islamzade, T., Islamzade, R., Choudhary, R., and **Munna, M. N. H.** (2026). Effects of physico-chemical properties on microbial biomass, basal soil respiration, and dehydrogenase activity in paddy soils. Communications in Soil Science and Plant Analysis.
18. Al Mohaimen, A., Riad, N. U., Muhammad, S. B., Sultana, S., Tonmoy, S., and **Munna, M. N. H.** (2026). Climate impacts: International politics and the burden of developing nations. International Environmental Agreements: Politics, Law and Economics.
19. Islam, M. S., Yeasmin, T., Hasan, I., Hossain, M. S., **Munna, M. N. H.**, Tonmoy, M. S. B., and Khan, A.S. (2026). Evaluating the impacts of land use and land cover change on urban ecosystem service values: A geospatial and community perception analysis in a sub-district of Bangladesh. Environmental Management.
20. Mitu, E. K., Mohiuddin, A. M., Hakim, A., **Munna, M. N. H.**, and Roy, S. (2026). Problem soils: Applications of data science and machine learning for the identification, quantification, and remediation. In R. Lal (Ed.), AI and soil health. Taylor and Francis.
21. Islam, F., **Munna, M. N. H.**, Shapna, N. A., Yeasmin, T., Hossain, M. S., Matin, M. A., Hossain, M. M., and Lal, R. (2026). Machine learning for soil physical quality assessment in data-driven soil systems. In R. Lal (Ed.), AI and soil health. Taylor and Francis.
22. Rahman, S., **Munna, M. N. H.**, Saif, A. A., Ghosh, R., Akter, K., Shapna, N. A., Tonmoy, S. B., Amin, M. A., Ashraf, M. N., and Lal, R. (2026). Artificial intelligence-driven

knowledge translation and decision intelligence for soil health management. In R. Lal (Ed.), *AI and soil health*. Taylor and Francis.

### Manuscripts in Preparation

23. **Munna, M. N. H.**, and Lal, R. Macroaggregate–Microaggregate Soil Organic Carbon Dynamics under Long-Term No-Tillage and Organic Amendments. Expected submission November 2026 to *Soil and Tillage Research*.
24. **Munna, M. N. H.**, and Lal, R. Penetration Resistance as an Indicator of Soil Compaction and Management Effectiveness under Long-Term No-Tillage. Expected submission November 2026 to *Soil and Tillage Research*.
25. **Munna, M. N. H.**, and Lal, R. Ecosystem Function Stability in Organic No-Tillage Systems: Integrating Biomass and Soil Physical Indicators. Expected submission December 2026 to *Agriculture, Ecosystems and Environment*.
26. **Munna, M. N. H.**, Hakim, A., and Shapna, N. A. Dynamics of Water and Nutrient Transport in Soil: Effects of Micro- and Nanoplastic Particles. Expected submission December 2026 to *Journal of Soils and Sediments*

### CONFERENCES, WORKSHOPS, AND PRESENTATIONS

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#### Invited Talk

- **Munna, M. N. H.**, and Lal, R. (2025). Plant-Available Water Capacity Under Organic Amendments and Cover Cropping in a Long-Term No-Till System. Lal Carbon Center Friday Seminar Series, The Ohio State University, Columbus, OH (December 12, 2025). [12 attendees]
- **Munna, M. N. H.**, and Lal, R. (2025). Soil physical quality index (SPQi) for organic no-tillage in Central Ohio. SENR Seminar Series, The Ohio State University, Columbus, OH, USA (Sept 16, 2025). [47 attendees]
- **Munna, M. N. H.** (2021). Social Impacts of Issues on Irresponsible Land Use. Online Academic Colloquium, Graduate School of Jose Rizal Memorial State University, Philippines (January 25, 2021).

## Conference Presentations

- **Munna, M. N. H.** and Lal, R. (2026). Understanding plant available water capacity in long-term no-tillage systems. Oral presentation at the International Conference on Soil–Water Interactions and Infiltration Dynamics (ICSWIID-26), Miami, Florida, USA, July 25–26, 2026. **Best Paper Presentation Award.** (Abstract ID: SF-3-25-0056261)
- **Munna, M. N. H.** and Lal, R. (2026). Long-Term Organic Management Enhances Soil Water Storage and Hydrologic Function in No-Till Systems. Oral presentation at the SENR Student Research Symposium, The Ohio State University, Columbus, OH, USA, April 24, 2026.
- **Munna, M. N. H.** and Lal, R. (2025). Long-Term Organic Amendments for Plant-Available Water Capacity in a Temperate No-Till System. Oral presentation (**Top 7 Abstract Selection**) delivered at the Third Annual Interdisciplinary Water Research Symposium, The Ohio State University, Columbus, OH, USA (October 29, 2025). [143 attendees]
- **Munna, M. N. H.** and Lal, R. (2025). Quantifying Soil Physical Quality with SPQi in Long-Term Organic No-Tillage Systems. Lightning Talk (**Top 10 Abstract Selection**) presented at the 11th Zamorano Symposium, The Ohio State University, Wooster, OH, USA (October 25, 2025). [134 attendees]
- **Munna, M. N. H.**, and Co-authors. (2023). Economic and Social Impacts of the River Bank Eroded Families in and Around Barishal City. Presented at the 9th International Conference on Water and Flood Management (ICWFM-2023), CIRDAP International Conference Center, Dhaka, Bangladesh (October 14–16, 2023).
- **Munna, M. N. H.** (2019). Asia World Model United Nations III. Presented at the Bali Nusa Dua Convention Center, Bali, Indonesia (November 13–16, 2019).  
Theme: “The Developments of Renewable Energy Technology in Response to Climate Change”.
- **Munna, M. N. H.** (2019). Asia World Model United Nations II. Presented at the Prince Palace Hotel, Bangkok, Thailand (January 30–February 2, 2019).  
Theme: “The World’s Dilemma: Enhancing World Action on Climate Change”.

- **Munna, M. N. H.** (2019). International Conference on Disaster Risk Management. Presented at the Pan Pacific Sonargaon Hotel and Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh (January 12-14, 2019).

### Poster Presentations

- **Munna, M. N. H., and Lal, R. (2026).** Soil Physical Quality Enhancement Through Organic Amendments in a Long-Term No-Till System. Poster presented at the CFAES Annual Research Forum, organized by the College of Food, Agricultural, and Environmental Sciences (CFAES), The Ohio State University, Columbus, OH, 2026. **(Second Place Poster Award)**
- **Munna, M. N. H. and Lal, R. (2026).** Building Resilient Soils: Legacy Effects of Organic Inputs on Carbon–Nitrogen Stabilization. Selected for Poster Presentation through Peer Review (March 6, 2026), Edward F. Hayes Advanced Research Forum, The Ohio State University, USA.
- **Munna, M. N. H., and Lal, R. (2025).** Soil Physical Quality Under Long-Term Organic No-Tillage in Central Ohio. Poster presented at the Research on the Horizon - Ohio State's Soil Symposium for 2025, organized by the School of Environment and Natural Resources (SENR), The Ohio State University, Columbus, OH, December 5, 2025.
- **Munna, M. N. H., and Lal, R. (2025).** Enhancing Soil Water and Hydraulic Function Through Long-Term Organic Management. Poster presented at the 54th Annual Water Management Association of Ohio (WMAO) Conference, Columbus, OH, USA (November 12, 2025).
- **Munna, M. N. H., and Lal, R. (2025).** Soil Physical Quality Index for Organic No-tillage in Central Ohio, USA. Poster presented at the Graduate Student Poster Exhibition, organized by School of Environment and Natural Resources (SENR), The Ohio State University, Columbus, OH, USA (August 25, 2025).
- **Munna, M. N. H., Shapna, N. A., Shahrier, M. H., and Rajonee, A. A. (2019).** Environmental Impact Assessment of Paira Bridge Construction Project, Patuakhali, Bangladesh. Presented at the 2nd International Congress on Earth Sciences, Bali, Indonesia (November 18–20, 2019).

- **Munna, M. N. H.**, Naher, S., Shapna, N. A., Bepari, A., and Papiya, L. A. (2018). Effects of Waste Dumping Station in Barishal City on the Chemical Properties of Agricultural Soils. Poster presented at World Soil Day 2018, organized by the Department of Soil and Environmental Sciences, University of Barishal, Bangladesh (December 5, 2018).

## Workshops

- National Workshop on Land Degradation Process and Land Use Map Update (Participant). Department of Forest, Agargaon, Dhaka, Bangladesh (April 2, 2019).

## TECHNICAL AND SOFTWARE SKILLS

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- Soil Physical/Chemical Analysis: Bulk density (BD), saturated hydraulic conductivity (Ks), plant-available water capacity (PAWC), total porosity, water-stable aggregates (WSA), soil organic carbon (SOC), including carbon fractionation (particulate organic carbon, mineral-associated organic carbon), total nitrogen (TN), available phosphorus (P), soil pH, electrical conductivity (EC), and cation exchange capacity (CEC).
- Statistical Analysis: R, SPSS, GraphPad Prism.
- Reference and Writing Tools: Zotero, Mendeley, Microsoft Office Suite.
- GIS and Mapping: ArcGIS

## PROFESSIONAL SERVICE, MEMBERSHIPS, AND LEADERSHIP

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- Member, Soil Science Society of America (SSSA), 2025 – Present
- Member, Ohio Academy of Science (OAS), 2025 – Present
- Member, Environmental Professionals Network (EPN), The Ohio State University, 2025 – Present
- **Conference Reviewer**, 1st National Science Conference 2026, Barishal University Science Club, University of Barishal, Bangladesh, 2026
- President, Bangladesh Soil Club (BU Chapter), Dec 2019 – Dec 2020
- Vice President, Rotaract Club of Barishal University, Jun 2019 – Jun 2020

## EXTENSION, OUTREACH AND SCIENCE COMMUNICATION

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- **Founder, Earth Review ([www.earthreview.org](http://www.earthreview.org)), 2017 – Present**, Established an environmental awareness and research-based organization in Bangladesh, focused on SDGs. Published conceptual articles on soil science, environmental science, hydrology, and disaster management to promote sustainability and awareness.
- **Munna, M. N. H. (2026)**. Protect soil, protect our future [Flash talk]. Citizen Science Day, College of Food, Agricultural, and Environmental Sciences, The Ohio State University, Wooster, OH, USA (April 30, 2026).
- **Munna, M. N. H. (2026)**. Potential future careers in soil and plant sciences. Outreach poster presented at the “We Grow Scientists” event, COSI Science Festival, College of Food, Agricultural, and Environmental Sciences (CFAES), The Ohio State University, Columbus, OH, USA (April 29, 2026).
- **Munna, M. N. H. (2026)**. Guest speaker, “*Global Pathways in Soil and Environmental Sciences*” (live podcast). Provided guidance on academic development, research pathways, and international higher education, engaging students in soil and environmental sciences and promoting global academic opportunities.
- **Host, Prof. Tomoyuki Makino (Tohoku University, Japan) – University of Barishal, Bangladesh (2022)**, Organized and hosted the visit of Prof. Makino to the Department of Soil and Environmental Sciences; showcased research facilities, discussed soil fertility and sustainable agriculture, and promoted international collaboration.
- **Organizer, Kuakata Sea Beach Cleanup Program 2020**, Kuakata, Patuakhali, Bangladesh – January 11, 2020. Organized a coastal cleanup and environmental awareness campaign under Earth Review, in collaboration with Our Green Lab and Bangladesh Soil Club (University of Barishal Chapter) to promote plastic pollution reduction and marine ecosystem protection.
- **Organizer and Instructor, Seminar on Soil, Water, Environment, and Climate Change**, Henchi Bangabandhu High School, Satkhira, Bangladesh – January 3, 2020. Conducted an environmental awareness seminar on climate change, salinity management, and sustainable soil–water use, organized under Earth Review in collaboration with the Department of Soil and Environmental Sciences and the Department of Coastal Studies and Disaster Management, University of Barishal, Bangladesh.

## AWARDS, HONORS, FELLOWSHIPS, AND GRANTS

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- **Winner (1st Place)**, College of Food, Agricultural, and Environmental Sciences (CFAES) 3-Minute Thesis Competition, 2026. Recognized for excellence in research communication and presentation clarity; selected as top presentation among all college submissions and awarded \$300.
- **Best Paper Presentation Award**, International Conference on Soil–Water Interactions and Infiltration Dynamics (ICSWIID-26), 2026.
- **Second Place Poster Award**, CFAES Annual Research Forum, The Ohio State University, Columbus, OH, 2026 Recognized for research on soil physical quality enhancement through long-term organic amendments in no-till systems.
- **SENR Graduate Student Travel Award**, The Ohio State University, USA — 2026. Competitive travel grant (\$1,000) awarded to support presentation of research on plant-available water capacity at the International Conference on Soil–Water Interactions and Infiltration Dynamics (ICSWIID-26), Miami, USA.
- **Presidential Postdoctoral Scholars Program (PPSP) Nomination**, The Ohio State University, USA — 2026 Faculty-nominated candidate for the university’s Presidential Postdoctoral Scholars Program; application reviewed in a highly competitive national search.
- **Presidential Fellowship Nomination**, The Ohio State University, USA — 2025. *Nominated for the university’s most prestigious graduate fellowship recognizing exceptional scholarly achievement and research potential.*
- **Dean’s Award for Academic Excellence (M.S.)**, Faculty of Bio-Sciences, University of Barishal, Bangladesh — 2022. *Awarded for outstanding academic performance and research excellence in M.S. program.*
- **National Science and Technology (NST) Fellowship**, Ministry of Science and Technology, Government of Bangladesh — 2021–2022. *Competitive national fellowship awarded to conduct M.S. thesis research in Soil and Environmental Sciences.*
- **Dean’s Award for Academic Excellence (B.S.)**, Faculty of Bio-Sciences, University of Barishal, Bangladesh — 2020. *Awarded for exceptional academic achievement during undergraduate studies.*

- **Full Accommodation Sponsorship Offer** – Asia World Model United Nations III, Nusa Dua, Bali, Indonesia — 2019. *Received an official invitation to attend AWMUN III conference.*

## REFERENCES

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### **Dr. Rattan Lal**

Director, CFAES Rattan Lal Center for Carbon Management and Sequestration (Lal Carbon Center)

Past President, International Union of Soil Sciences; Rome, Italy

Past President Soil Science Society of America, Madison, WI, USA

Adjunct Professor, University of Iceland ,Punjab Agricultural University, Ludhiana ; IARI, New Delhi, Amity University, Noida; Sher -e- Kashmir University of Sci. and Tehc. Sri Nagar, India; Pontifical Catholic University, Valparaíso, Chile; National University of Uzbekistan, Tashkent. Global Ambassador Regenagri, London, U.K.

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IICA Chair in Soil Science, and Goodwill Ambassador for Sustainable Development Issues, San Jose, Costa Rica

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### **Dr. Jim Ippolito**

Rattan Lal Endowed Professor of Soil Health and Soil Fertility

School of Environment and Natural Resources

College of Food, Agricultural, and Environmental Sciences (CFAES)

The Ohio State University, Columbus, OH, USA

119th President, American Society of Agronomy (ASA)

**Email:** [ippolito.38@osu.edu](mailto:ippolito.38@osu.edu), **Phone:** (614) 292-4723

### **Dr. Shamim Mia**

Professor, Department of Agronomy

Patuakhali Science and Technology University (PSTU), Bangladesh

Ph.D. Agriculture (The University of Sydney, Australia)

Former Visiting Researcher, The University of Sydney and University of Newcastle, Australia

Postdoctoral Fellow, The University of Sydney, Australia

Editor, Soil Science and Plant Nutrition (Taylor and Francis)

Editor, Discover Soil

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I hereby declare that the above statements are correct and complete to the best of my knowledge.



Md Nayem Hasan Munna