



Dr. Ritam Bhattacharya

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(Home)

● ABOUT MYSELF

I am an academic and researcher with a Ph.D. in Science and over a decade of multidisciplinary experience in environmental science, agroecology, and pollination ecology. My career spans teaching, curriculum development, project leadership, and research across academic institutions, international collaborations, and the development sector. I have been actively involved in EU- and Indo-Norwegian-funded initiatives like *Nextfood* and INCP, where I led innovative agroecology training programs, co-developed educational content, and coordinated stakeholder engagement. My research contributions focus on ecosystem services, biodiversity conservation, and sustainable agriculture, with publications in high-impact journals. Currently serving as an Assistant Professor of Environmental Science, I am deeply committed to fostering critical thinking, interdisciplinary learning, and action-oriented pedagogy that aligns with the Sustainable Development Goals (SDGs). I seek to contribute to academic excellence and sustainability-driven innovation in higher education.

● WORK EXPERIENCE

16/02/2026 - CURRENT - BARASAT, WEST BENGAL, INDIA

ASSISTANT PROFESSOR (ENVIRONMENTAL SCIENCE) ADAMAS UNIVERSITY

Responsible for taking classes and managing the compulsory Environmental Studies program at the B.Tech level and Undergraduate and Post Graduate. Also responsible for conducting different activities among students for raising awareness about the environment and conducting research activities.

08/08/2024 - 31/01/2026 - VADLAMUDI, GUNTUR, INDIA

ASSISTANT PROFESSOR (ENVIRONMENTAL SCIENCE) DEPARTMENT OF CHEMISTRY, VIGNAN FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH (DEEMED UNIVERSITY)

Business or sector Education

01/08/2022 - 31/03/2024 - WEST BENGAL, INDIA

CONSULTANT ASHA NGO

I played a key role in the "**Establishing a Nutrition Smart Community for the Sunderbans**" project, a multi-sector initiative funded by Welthungerhilfe and German Doctors. My responsibilities encompassed training, data analysis, project coordination, and stakeholder management.

- Led training sessions for grassroots trainers and volunteers, focusing on nutrition and community development.
- Coordinated training logistics, including session plans, methodologies, and required support.
- Maintained an inventory of trainers, detailing thematic areas, languages, locations, and types of training (field-based, technical, management).
- Developed Terms of Reference (TORs) for training sessions and distributed them to potential trainers from the Talent Academy.
- Collaborated with Welthungerhilfe (WHH) to ensure high-quality training and followed up with project staff to measure the impact of training events.
- Conducted Training of Trainers (TOT) sessions to ensure trainers' skills met project requirements.
- Contributed to various reports, including activity reports, interim updates, and project proposals for funding partners.
- Analyzed qualitative and quantitative data from surveys to assess the project's impact and identify

improvement areas.

- Developed a comprehensive training calendar and coordinated its implementation.
- Created training plans, budgets, and completion reports to ensure timely execution.
- Authored detailed training reports with participant lists and shared photo documentation on social media.
- Assisted in drafting and submitting new project proposals, playing a key role in obtaining additional funding.

Business or sector Other service activities | **Department:** ASHA NGO | **Email:** dearah.asha@gmail.com | **Website:** <https://www.asha4change.org/>

01/12/2022 - CURRENT - KOLKATA, INDIA

VISITING FACULTY (ENVIRONMENTAL SCIENCE) NSHM KNOWLEDGE CAMPUS

As a visiting faculty member at NSHM Knowledge Campus, I contribute to the academic development and delivery of the M.Sc Programme in Environmental Science. My responsibilities include:

- Preparation of class materials tailored to the curriculum requirements and the latest developments in the field of environmental science.
- Crafting university-level question papers that align with course objectives and facilitate comprehensive assessment of students' knowledge and skills.
- Evaluation of university answer scripts, ensuring fair and objective assessment based on established criteria and academic standards.
- Conducting engaging and interactive classes for students enrolled in the M.Sc Environmental Science program, as well as those pursuing Bachelor's degrees in Dietetics and Nutrition, Optometry, and Bachelor in business administration.

Through my role as a visiting faculty member, I strive to foster a stimulating learning environment that encourages critical thinking, innovation, and a holistic understanding of environmental science principles among students.

Business or sector Education | **Department:** NSHM Knowledge Campus | **Email:** kolkata@nshn.com | **Website:** <https://www.nshn.com/>

01/01/2019 - 30/04/2022 - KOLKATA, INDIA

RESEARCH ASSOCIATE UNIVERSITY OF CALCUTTA

As a Research Associate for the **European Union-funded H2020 project "Nextfood,"** I was responsible for coordinating project-related activities, managing assignments, and overseeing financial accounts at the University of Calcutta. Key aspects of my role included:

- Coordinating all project-related activities at the university, ensuring alignment with the broader objectives of the H2020 "Nextfood" initiative.
- Managing two work packages assigned to the University of Calcutta, which involved detailed planning, execution, and tracking to meet project milestones and deliverables.
- Handling financial accounts for the project, including budgeting, expenditure tracking, and reporting to Welthungerhilfe to ensure compliance with EU funding guidelines.
- Serving as the teaching coordinator for a certificate course on **Agroecology** and a pilot course designed for food entrepreneurs. This involved creating course outlines, sourcing guest speakers, and ensuring course content was relevant and valuable for a diverse audience, including farmers, NGO professionals, researchers, and students.

Through this role, I gained extensive experience in project coordination, financial management, and educational program development. I contributed to the success of the "Nextfood" project by ensuring smooth coordination of activities, effective management of work packages, and high-quality educational experiences for course participants.

01/10/2016 - 31/12/2018 - KOLKATA, INDIA

POST DOCTORAL FELLOW UNIVERSITY OF CALCUTTA

As a Teaching Coordinator and Postdoctoral Fellow in an **Indo-Norwegian collaboration project (INCP),** I was responsible for coordinating a certificate course on **Agroecology** at the University. This course was one of

the first of its kind in South Asia, aimed at advancing knowledge and practices in **agroecology**. My responsibilities included:

- **Curriculum Development:** Built the course curriculum from the ground up, ensuring that it aligned with both academic standards and practical agroecological applications.
- **Teaching Coordination:** Managed the logistics of the course, including scheduling, coordinating guest lectures, and overseeing faculty involvement.
- **Student Relationship Management:** Engaged with students to understand their learning needs, provided guidance, and facilitated a collaborative learning environment.
- **Financial Account Management:** Handled budgeting, expenditures, and other financial aspects of the course to ensure efficient resource utilization.

This role involved significant collaboration with stakeholders from both India and Norway, highlighting the importance of cross-cultural teamwork. As a result of my efforts, the course on **Agroecology** became a foundational offering at the university, attracting interest from a diverse group of participants, including farmers, NGO professionals, and students. Through this position, I honed my skills in course development, teaching coordination, and project management.

01/01/2012 - 30/04/2017 - KOLKATA, INDIA

GRADUATE STUDENT UNIVERSITY OF CALCUTTA

As a Ph.D. student in this Department of Science and Technology, Government of West Bengal-funded project, I conducted research on improving productivity in vegetable crops through enhanced natural pollinator services. The core focus of my thesis, titled "Pollinator community along an agricultural intensification gradient in North 24 Parganas, West Bengal, India," was to investigate the impact of agricultural practices on pollinator diversity and abundance. My responsibilities and achievements included:

- **Field Research and Data Collection:** Collected data on pollinator communities in various vegetable crop fields, capturing the effects of agricultural intensification on pollinator abundance and diversity.
- **Experimental Design and Methodology:** Developed research methodologies for assessing pollinator services, including sample collection, identification, and data analysis.
- **Collaboration and Communication:** Worked closely with local farmers and agricultural experts to understand their practices and gather information relevant to the study. Presented research findings at conferences and departmental meetings.
- **Data Analysis and Interpretation:** Analyzed the collected data to identify patterns and relationships between agricultural practices and pollinator diversity. Developed statistical models to support the research findings.
- **Thesis Preparation and Defense:** Compiled the research results into a comprehensive Ph.D. thesis, presenting it to the academic committee, and successfully defended my work.

This role provided me with deep insights into the relationship between agricultural practices and pollinator services, and developed my skills in research design, data analysis, and scientific communication. The findings from this project contributed to a broader understanding of sustainable agriculture and the importance of pollinator conservation in crop production.

01/03/2019 - 30/04/2019 - KOLKATA, INDIA

RESEARCHER UNIVERSITY OF CALCUTTA

As a researcher for the **CLIPS project** at the **University of Brussels**, my focus was on studying the impact of climate change and landscape alterations on pollination services in apple orchards in India. My primary responsibilities included:

- **Sample Collection and Data Gathering:** Collected insect pollinator samples from various apple orchards, applying rigorous scientific methodologies to ensure data accuracy and reliability.
- **Analysis of Landscape Changes:** Assessed the effects of landscape modifications and agricultural inputs on the health and diversity of insect pollinators, using a range of analytical techniques.
- **Fieldwork Coordination:** Organized and conducted fieldwork, ensuring the timely collection of samples and relevant data in accordance with project timelines.
- **Collaboration with Local Stakeholders:** Engaged with local farmers, agricultural experts, and other stakeholders to understand the broader context of apple farming and its potential impact on pollination services.

This role required a blend of fieldwork, scientific analysis, and stakeholder collaboration. It contributed to a deeper understanding of how climate change and landscape alterations influence pollination services, with implications for sustainable agriculture and biodiversity. Through this project, I developed expertise in field research, data analysis, and stakeholder engagement, with a focus on environmental sustainability and agricultural resilience.

● EDUCATION & TRAINING

01/10/2015 - 28/02/2016 - KOLKATA, INDIA

CERTIFICATE IN AGROECOLOGY - CENTRE FOR AGROECOLOGY AND POLLINATION STUDIES, UNIVERSITY OF CALCUTTA

26/03/2012 - 01/06/2017 - KOLKATA, INDIA

PH.D (SCIENCE)- UNIVERSITY OF CALCUTTA

Website: <https://www.caluniv.ac.in/>

19/10/2006 - 01/08/2008 - KOLKATA, INDIA

POST GRADUATE (M.SC IN ENVIRONMENTAL SCIENCE)- DEPARTMENT OF ENVIRONMENTAL SCIENCE, UNIVERSITY OF CALCUTTA

Website: <https://www.caluniv.ac.in/academic/Environmental-Sc.html>

01/06/2003 - 01/06/2006 - KOLKATA, INDIA

UNDERGRADUATE (B.SC IN ZOOLOGY HONOURS) - ASUTOSH COLLEGE, UNIVERSITY OF CALCUTTA

Website: <https://asutoshcollege.in/new-web/>

● LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
HINDI	C2	A1	C2	C2	A1

● SKILLS

Microsoft teams | Microsoft Office | Nvivo software | qualitative and quantitative data analysis | Qualitative data analysis (Nvivo)

● PUBLICATIONS

Functional relatedness shapes bee species co-occurrence in a pollinator guild of tropical farmlands

Chakraborty, Anirban & Bhandari, Ankan & Das, Manobrata & Bhattacharya, Ritam & Basu, Parthiba. (2025). Community Ecology. 26. 10.1007/s42974-025-00281-2.

[Global taxonomic, functional, and phylogenetic diversity of bees in apple orchards](#) 2023

N. Leclercq, L. Marshall, T. Weekers, P. Basu, D. Benda, D. Bevk, **R. Bhattacharya**, P. Bogusch, A. Bontšutšnaja, L. Bortolotti, N. Cabirol, E. Calderón-Uraga, R. Carvalho, S. Castro, S. Chatterjee, M. De La Cruz Alquicira, J.R. de Miranda, T. Dirilgen, A. Dorchin, K. Dorji, B. Drepper, S. Flaminio, J. Gailis, M. Galloni, H. Gaspar, M.W. Gikungu, B.A. Hatteland, I. Hinojosa-Diaz, L. Hostinská, B.G. Howlett, K.-L.J. Hung, L. Hutchinson, R.O. Jesus, N. Karklina, M.S. Khan, J. Loureiro, X. Men, J.-M. Molenberg, S. Mudri-Stojnić, P. Nikolic, E. Normandin, J. Osterman, F.

Ouyang, A.S. Oygarden, L. Ozolina-Pole, N. Ozols, A. Parra Saldivar, R.J. Paxton, T. Pitts-Singer, K. Poveda, K. Prendergast, M. Quaranta, S.F.J. Read, S. Reinhardt, M. Rojas-Oropeza, C. Ruiz, M. Rundlöf, A. Sade, C. Sandberg, F. Sgolastra, S.F. Shah, M.A. Shebl, V. Soon, D.A. Stanley, J. Straka, P. Theodorou, E. Tobajas, J.L. Vaca-Uribe, A. Vera, C.A. Villagra, M.-K. Williams, M. Wolowski, T.J. Wood, Z. Yan, Q. Zhang, N.J. Vereecken,

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165933,

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Science of The Total Environment,.

[Wild insect diversity increases inter-annual stability in global crop pollinator communities](#) 2021

Deepa Senapathi, JochenFründ, Matthias Albrecht, Michael P. D. Garratt, DavidKleijn, BrianJ.Pickles, Simon G. Potts, Jiandong An, Georg K. S. Andersson, Svenja Bänsch, Parthiba Basu, Faye Benjamin, Antonio Diego M. Bezerra, **Ritam Bhattacharya**, Jacobus C. Biesmeijer, Brett Blaauw, Eleanor J. Blitzer, Claire A. Brittain, Luísa G. Carneiro, Daniel P. Cariveau, Pushan Chakraborty Arnob Chatterjee, Soumik Chatterjee, SarahCusser, BryanN. Danforth, Erika Degani, Breno M. Freitas, Lucas A.Garibaldi, Benoit Geslin, G. Arjen de Groot, Tina Harrison, Brad Howlett, Rufus Isaacs, Shalene Jha, Björn Kristian Klatt, Kristin Krewenka, Samuel Leigh, Sandra A. M. Lindström, Yael Mandelik, Megan McKerchar, MiaPark, Gideon Pisanty, Romina Rader, Menno Reemer, Maj Rundlöf, Barbara Smith, Henrik G. Smith, Patrícia Nunes Silva, Ingolf Steffan-Dewenter, Teja Tschardt, Sean Webber, DuncanB. Westbury, Catrin Westphal, Jennifer B. Wickens, Victoria J. Wickens, Rachael Winfree, Hong Zhang and Alexandra- Maria Klein

Journal Of Royal Society B.

Pollination Crises in the Agroecosystems of the Tropics Challenges and Way Forward. In book 2017

Pollination Crises in the Agroecosystems of the Tropics Challenges andWay Forward. In book: Agroecology, Ecosystems, and Sustainability in the Tropics (pp.90-99),Chapter: 4 Publisher: Studera Press, Editors: Poyyamoli Gopalsamy

Basu, Parthiba, Bhattacharya, Ritam and Chakrabarti Basu, Priyadarshini. (2017).

[A decline in pollinator dependent vegetable crop productivity in India indicates pollination limitation and consequent agro-economic crises](#).1

Basu, Parthiba., Ritam. Bhattacharya. And Pietro. lanetta. 2011,

Nature Precedings <http://hdl.handle.net/10101/npre.2011.6044.1>.

Pollinator Limitation and Crop Production: Experimental Observations on Few Economically Important Vegetable Crops in West Bengal, India. 2016

Bhattacharya, Ritam. Parthiba. Basu. 2016. Proc.Zool.Soc. DOI10.1007/ s12595-016-0189-4.

● **NETWORKS AND MEMBERSHIPS**

Kolkata, India

Life membership at Zoological Society, Kolkata, India

● **CONFERENCES & SEMINARS**

05/04/2022 - 07/04/2022 CIHEAM, Bari, Italy

Nextfood Final Consortium Meeting I participated in the final consortium meeting of the European Union-funded H2020 project "Nextfood" in Bari, Italy. As a representative from the University of Calcutta, a key partner organization in collaboration with Welthungerhilfe, I contributed to the project's concluding discussions, shared insights from our work, and engaged with international stakeholders to discuss project outcomes and future directions. This meeting served as a platform to exchange ideas and showcase the collaborative efforts that made "Nextfood" successful in promoting agroecology and sustainable practices. It

also reinforced the importance of cross-border partnerships in achieving global sustainability goals.

Links <https://www.nextfood-project.eu/presenting-the-nextfood-monograph/>

07/12/2019 - 09/12/2019 Roskilde University, Denmark

Nextfood Work Package 1 meeting I actively participated in the work package 1 meeting of the EU-funded project "Nextfood" at Roskilde University, Denmark, fulfilling my role as a partner in the work package. During the meeting, I engaged with fellow partners to discuss project objectives, progress, and upcoming tasks related to work package 1. Through collaborative discussions and knowledge sharing, we strategized on how to effectively contribute to the project's overall goals and ensure the successful implementation of our specific work package. This experience underscored the importance of international cooperation and teamwork in advancing research and innovation in the field of sustainable agriculture and agroecology.

20/10/2019 - 22/10/2019 ISEKI, Vienna, Austria

Nextfood Work Package 2 meeting I participated as a case partner in the annual meeting of work package 2 for the EU-funded project "Nextfood" at ISEKI, Vienna. In this role, I collaborated with other case partners to review the progress of work package 2, shared insights from our specific cases, and contributed to discussions on refining methodologies and strategies. This annual meeting provided a valuable opportunity to network with peers, exchange ideas, and align our efforts to meet the broader goals of the project. The experience highlighted the significance of continuous collaboration and adaptive learning in advancing agroecology and sustainable food systems.

01/02/2018 - 03/02/2018 University of Calcutta, Kolkata, India

Invited Speaker at INTZOOCON, 2018 I delivered a talk at INTZOOCON 2018, an International Conference celebrating 100 years of zoology, held at the University of Calcutta from 1-3 February at the Ramakrishna Mission Institute of Culture, Golpark, Kolkata. My presentation, titled "Pollinator Limitation on Crop Pollination: Experimental Observations on a Few Economically Important Vegetable Crops in West Bengal, India," highlighted findings from experimental studies on pollination limitations in vegetable crops. This conference provided a platform to share my research with an international audience, discuss the implications of pollinator limitations on agricultural productivity, and explore strategies for enhancing crop pollination through agroecological practices.

13/12/2015 - 15/12/2015 Edinburgh, UK

Invited Speaker at BES annual meeting I delivered a talk on the "Effect of Seasonality on the Pollen Transport Network in an Eastern Indian Intensive Agricultural Landscape" on 14 December 2015 at the annual meeting of the British Ecological Society in Edinburgh, UK. In this presentation, I discussed how seasonal changes affect pollen transport within intensive agricultural landscapes, drawing insights from my research in Eastern India. This meeting brought together ecologists from around the world, providing an excellent opportunity to share my findings, engage in meaningful discussions, and explore the broader ecological implications of seasonality on pollination networks and crop productivity.

09/12/2015 Coventry, UK

Invited speaker at Coventry University Delivered a talk on the pollen transport network at Coventry University, the UK on 9th December 2015.

13/08/2015 NMBU, Norway

Student exchange programme at NMBU, Norway Visited the Norwegian University of Life sciences in Ås, Norway as a part of the exchange program of the Indo Norwegian collaboration project in August 2015.

21/02/2015 - 23/02/2015 University of Calcutta, Kolkata, India

Invited speaker at University of Calcutta Delivered a talk on the Pollen transport network and flower visitation network in vegetable cropping systems of Andharmanik and Hingaljanj in 1st joint meeting of UK-India agroecology initiative in Kolkata on 21st-23rd February 2015, organized by the Centre for Pollination Studies, University of Calcutta.

● RECOMMENDATIONS

Dr. Barbara Smith Mentor

Barbara and I have been working together since 2015. She was the first person to introduce me to Agroecology, teaching me the foundational concepts. Her guidance and encouragement have been instrumental in my development. Under Barbara's mentorship, I have had the opportunity to work on two major European projects—INCP and Nextfood—where her support and insights have been invaluable in shaping my skills and career trajectory.

Email barbarasmithmail@gmail.com | **Phone** +44 7940997136

Links <https://pureportal.coventry.ac.uk/en/persons/barbara-smith>

Prof. Aniruddha Mukopadhyay Mentor

Prof. Mukhopadhyay has been my teacher since my postgraduate days, introducing me to the world of environmental science. Throughout my academic journey, he has served as my mentor, providing not only guidance and mentorship but also friendship and philosophical insights. His influence has shaped my understanding of Environmental Science and played a significant role in my personal and professional growth.

Email amcu.envs24@gmail.com | **Phone** +91 9830310635

● **HOBBIES AND INTERESTS**

Hiking, Badminton and Cricket

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Action Learning

In my postdoctoral work on a European Union-funded project, action learning and communication were integral to the new pedagogical approach we implemented. This emphasis on interactive learning and practical communication shaped my teaching and research methods. Through this project, I honed five core competencies: Observation, Reflection, Participation, Visioning, and Dialogue. These skills allowed me to actively engage with participants, foster collaborative learning, and create a supportive environment where new ideas could thrive. This holistic approach was essential in developing innovative agroecology training and curriculum content, ensuring that our work was impactful and adaptable to diverse settings.

Links https://platform.nextfood-project.eu/#/case_studies/-LZ-NbRzQrIDZH_uBbiR

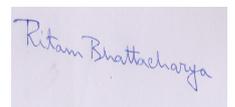
● **ORGANISATIONAL SKILLS**

Organizational Skills Summary

I excel in organizational skills, demonstrating the ability to coordinate complex projects and manage diverse tasks. As a work package partner in a European Union-funded project, I contributed to international meetings and maintained clear communication across multi-institutional teams. My role in ASHA NGO involved coordinating training sessions and managing data analysis, while my work on EU-funded projects required meticulous project management, including budget oversight and collaboration with global partners.

My organizational skills also extend to academic settings, where I've developed course content, delivered talks at international conferences, and created training modules for agroecology and food entrepreneurship courses. Through these experiences, I have honed my ability to manage multiple priorities, maintain high standards, and foster effective teamwork.

I hereby declare that the information provided above is true and correct to the best of my knowledge.



Kolkata, India, 08/08/2025

Dr. Ritam Bhattacharya