

MD JAHIR RAYHAN

CURRICULUM VITAE

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ACADEMIC QUALIFICATION

- **Bachelor of Science (Honors) in Zoology**, University of Chittagong, Bangladesh (2017–Present)
Current status: Average GPA 3.85 on a scale of 4.00, the final degree to be conferred on May 2024

RESEARCH INTERESTS

- Evolution of wing tails, larval feeding habits, and spinneret in Lepidoptera
- Molecular evolution and higher-level phylogeny of Lepidoptera
- Philosophy of Biological Science

RESEARCH EXPERIENCE

- **Undergraduate (4th year) thesis** (January 2023–July 2023)
Topic: From concealers to exposers by acquisition of noble traits: On the evolution of feeding behavior in lepidopteran caterpillars. Supervisor: Dr. Munira Nasiruddin
- **Independent research** (2018–Present)
Topic: Taxonomy, ecology, and diversity of moths in Bangladesh

JOURNAL PUBLICATIONS (6 publications total, 4 first-authored)

- Rayhan, M. J.,** Jahan, S. & Hulsbosch, R. (2023) A new species of genus *Phragmataecia* Newman, 1850 (Lepidoptera: Cossidae) from Bangladesh. *Zootaxa*. 5375(2): 273–278.
- Rayhan, M. J.,** Jahan, S. & Irungbam, J. S. (2023) First description of the hitherto unknown male and female genitalia of *Eupterote citrina* (Walker, 1855) (Lepidoptera: Eupterotidae) with taxonomic note on its related taxa. *Zootaxa* 5325(2): 298–300.
- Rayhan, M. J.,** Jahan, S. & Sanjida, A. A. (2023) Taxonomy, ecology and larval behaviour of *Micraloa emittens* (Walker) (Lepidoptera: Erebidae: Arctiinae) from Bangladesh. *Oriental Insects*. (Published Online).
- Farooqui, S. A., Siddiqui, K. S., **Rayhan, M. J.** & Khan, S. A. (2023) A world checklist of the genus *Phauda* Walker (Lepidoptera: Phaudidae) with the description of female genitalia of *Phauda flammans* (Walker, 1854). *Tropical Lepidoptera Research* 33(1): 39–41.
- Rayhan, M. J.,** Samraj, J. M. & Jahan, S. (2022) On the Picture-winged Leaf Moths (Lepidoptera: Thyrididae) from Chittagong University Campus, Bangladesh, with a report of a pouch-like structure on the caterpillar metathoracic legs of *Aglaopus decussata* Moore and notes on its life history. *Tropical Lepidoptera Research* 32(2): 118–126.
- Jahan, S. & **Rayhan, M. J.** (2022) First record of *Anereuthina renosa* Hübner, 1823 (Lepidoptera: Erebidae) from Bangladesh and *Terminalia* sp. (Combretaceae) as a new larval hostplant record. *Tropical Lepidoptera Research* 32(2): 87–90.

CONFERENCE PUBLICATIONS (1 publication total)

- Rayhan, M. J.** (2022) DNA barcoding: A helpful ally to taxonomists or a hindrance on the way to taxonomy (**Poster presentation**), conference: 1st Jamal Nazrul Islam National Conference 2022 for Young Researchers, at: University of Chittagong, Bangladesh.

ARTICLE REVIEW

- 2022: One article on non-ditrysian Lepidoptera of India for *Zootaxa* (ISSN: 1175-5326)
- 2022: One article on Crambidae for *Bionotes* (ISSN: 0972-1800)

WORK EXPERIENCE

- **Co-author and contributor** (Awaiting publication)
Brochure on common microlepidoptera from Indian subcontinent
- **Freelancing writer and contributor** (July 2022–Present)
Moths of Kerala- an upcoming book by Mr. Balakrishnan Valappil
- **Team member** (November 2021–Present)
Moths of India team

TEACHING EXPERIENCE

- **Supervision** (August 2023–April, 2024)
One trainee student for an internship program arranged by Wildlife Information and Nature Guide Society, India on the influence of diversified host-plant usage on phenotypic variations in moths.
Responsibilities: Formulation of research plan and working procedures, virtual guiding and monitoring
- **Supplementary instructor (Biology and General Chemistry)** (2018–Present)
Responsibilities: Teaching different topics of Biology and Chemistry to high school level students

INVITED TALKS AND PRESENTATIONS (Last 5)

- Invited for a presentation on ‘The ecology and evolution of moths’ in an international webinar
Organized by: Palar Agricultural College, Tamil Nadu, India on 29 July 2023 for National Moth Week
- Invited as a resource person for a workshop on moths.
Organized by: Malabar Natural History Society, Kerala, India from 22 to 24 March, 2023
- Invited for a talk on ‘Basic ecology and evolution of moths’ for high school level students
Organized by: Wildlife Information and Nature Guide Society, India on 23 July, 2022
- Invited for a presentation on ‘An introduction to micromoths’
Organized by: Moths of India team on 12 February, 2022
- Invited for a talk on ‘My journey with moths’ in a webinar entitled ‘Unravelling the moth mysteries’
Organized by: Zoological Survey of India on 20 July 2021 for National Moth Week

EDUCATION AND OUTREACH

- Founded and currently working as a coordinator in ‘Entomological Society of Chittagong University-ESCU’ (July 2023–Present)
- Founded Microlepidoptera of South-Asia and currently involved with several other social media platforms for mapping the distribution, identification, and discussion on taxonomy and ecological aspects of moths and spreading awareness for their conservation (2018–Present)
- Involved in awareness-building school campaigns for biodiversity conservation as an Education and Research Executive of Bicchu: Save Wild team (2018–2021)

AWARDS AND ACHIEVEMENTS (Last 2 years)

- Received the ‘Butterfly Young Enthusiast 2023’ award by the Jahangirnagar University, Bangladesh in collaboration with IUCN and the Ministry of Forest and Environment, Bangladesh
- Champion prize for the presentations in Wildlife Day 2022 and 2023 organized by the Department of Zoology, University of Chittagong in association with Bangladesh Bird Club

SKILLS

- **Wet Lab:**
 - Morphological analysis, genitalia dissection, and rearing immature stages of Lepidoptera
 - DNA extraction, PCR
- **Dry Lab:**
 - Phylogenetic analysis (Molecular and Morphological)
 - Microsoft office: Word, Excel, PowerPoint
 - Software: Mesquite, MEGA, PHYLIP, DAMBE, and Adobe Illustrator 10