

Personal Profile



Dr. Hiren Gogoi
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Educational Profile

- Ph.D. Dibrugarh University, Dibrugarh-786004,
Assam, India; Year of award: 2013
Supervisor: Prof. (Mrs.) Dipsikha Bora
- M.Sc. Gauhati University, Guwahati 781014, Assam, India;
Year of award: 2006
Subject: Zoology
Specialization: Entomology
- B.Sc. Dibrugarh University, Dibrugarh-786004; Year of award: 2003
Subject: Zoology

Professional Experience

- Assistant Professor**, Department of Zoology, July 2013-till date
Rajiv Gandhi University, Arunachal Pradesh, India
- Assistant Professor**, Department of Zoology, Silapathar June 2006- July 2013
Science College, Silapathar-787059, Assam

Research Interests

Insect diversity in Arunachal Pradesh with emphasis on honey bees, wild bees, wild silkworms and their sustainable utilization for economic empowerment of local communities.

Research Publications

1. Structure of the silk gland of Eri silkworm *Samia cynthia ricini* Boisd. and its secreted proteins. Taba M. and Gogoi H. *International Journal of Tropical Insect Science* **2021** (In Press)
2. Response of foragers of giant Himalayan honey bee *Apis laboriosa* to microclimates in agro-net and climate control greenhouse. **Gogoi H.**, Taid R., Boruah B.B., Umbrey C., Ete G. 2021. *Journal of Apicultural Research* (In Press).
3. Characterization of chitin content extracted from edible insect, *Coridius nepalensis* (Westwood, 1837) (Hemiptera: Dinidoridae). Sharbidre A., Sargar S., **Gogoi H.**

- Patil R. *International Journal of Tropical Insect Science* **2020**, *41(2)*, 1893–1900. <https://doi.org/10.1007/s42690-020-00386-3>
4. Therapeutic potential of stink bug *Coridius nepalenseis* (Westwood) (Hemiptera: Dinidoridae): An *in vitro* study. Sharbidre A., Sargar S., **Gogoi H.**, Ambre V., Honawale P., Patil R. *Journal of Bioresources* **2020**, *7(2)*, 60 – 70.
 5. Report on wild Eri silkworm *Samia canningii* Hutton (Lepidoptera: Saturniidae) from Arunachal Pradesh, India. Taba M. and **Gogoi H.** *National Academy Science Letters* **2019**, *42(2)*, 147-150, <https://doi.org/10.1007/s40009-018-0678-2>
 6. Pan-Himalayan high altitude endemic cliff bee, *Apis laborisa* Smith (Hymenoptera: Apidae): A review. **Gogoi H.**, Tayeng M. and Meth T. *Proceedings of the Zoological Society* **2019**, *72(1)*, 3-12, <https://doi.org/10.1007/s12595-017-0234-y>
 7. Insect pollinators of crops and fruits in Arunachal Pradesh, Eastern Himalaya: Rich diversity in flowers with yellow anther. Tayeng, M. and **Gogoi, H.** *Proceedings of the Zoological Society* **2018** *71(1)*, 56-62, <https://doi.org/10.1007/s12595-016-0185-8>
 8. Honey bees in Eastern Arunachal Himalaya: Colony status, comparison of pH and protein profile (1D SDS) of honey produced. **Gogoi H.**, Umbrey C., Taba M., Badak M., Riso N. *Journal of Bioresources* **2018**, *5(2)*, 58-64.
 9. A report on insect community and their habitat association in Daying Ering memorial wildlife sanctuary, Arunachal Pradesh. **Gogoi H.**, Lego O., Tayeng M., Meth T. *National Academy Science Letters* **2017**, *40(4)*, 257–266, <https://doi.org/10.1007/s40009-017-0568-z>
 10. Species of Tari in Arunachal Pradesh: Morphology, ecology and toxicity of entomophagy. **Gogoi, H.**, Moyong, B., Sonia, K., Umbrey, C. (2017). *Journal of Bioresources* **2017**, *4(2)*, 50-57.
 11. Insect pests and associated natural enemies in farming ecosystems of Arunachal Pradesh. **Gogoi, H.**, Wangno, W., Khimhun, C., Rabha, M., and Tayeng, M. *Journal of Bioresources* **2017**, *4(1)*, 41-48.
 12. A scientific note on insect anthophiles and ridge gourd [*Luffa acutangula* (Roxb.) L.] pollination. **Gogoi, H.** and Tayeng, M. *National Academy Science Letters*. **2016**, *39(5)*, 327-331, <https://doi.org/10.1007/s40009-016-0473-x>
 13. A report on coleopteran species composition in Rono-Hills, Arunachal Pradesh with perspective on ecological and economic aspects. Tayeng, M. and **Gogoi, H.** *Journal of Bioresources* **2016**, *3(1)*, 72-79.
 14. Rearing of Eri silkworm (*Samia cynthia ricini* Boisid.) (Lepidoptera: Saturniidae) in Arunachal Pradesh: A study in Papumpare district. Taba, M. and **Gogoi, H.** (2016). *Journal of Bioresources* **2016**, *3(1)*, 46-52.
 15. Preliminary survey on insects and spiders from Papumpare and East Kameng district, Arunachal Pradesh with commercial and economic value. **Gogoi, H.**, Meth, T. and Tayeng, M. *Journal of Bioresources*, **2015** *2(1)*, 33-39.
 16. A field survey of the silk moths (Lepidoptera: Saturniidae) in West Siang district, Arunachal Pradesh and threats to their population. **Gogoi, H.**, Borah, G., Habung T. and Wangsa, K. *Journal of Bioresources* **2014**, *1(1)*, 16-24.
 17. Moths of Arunachal Pradesh: A preliminary report. **Gogoi H.**, Borah G., Indu H., Habung T. *Bulletin of Life Sciences* **2014**, *XX*: 16-28

18. High yielding rice cultivars, high rainfall and high humidity favour *Nymphula depunctalis* to reach major pest status: A study in Dhemaji district, Assam. **Gogoi, H.** and Bora, D.S.. *National Academy Science Letters* **2013** 36, 469-475. <https://doi.org/10.1007/s40009-013-0159-6>
19. Bio-efficacy potential of some ethnically important plants against *Nymphula depunctalis* Guenée (Lepidoptera: Pyralidae) larvae with special reference to *Calotropis procera* and *Zanthoxylum nitidum*. **Gogoi, H.** and Bora, D. S. *National Academy Science Letters* **2012** 35(3), 169-175. <https://doi.org/10.007/s40009-012-0030-1>
20. Spatial distribution of *Nymphula depunctalis* Guenee larvae (Lepidoptera: Pyralidae), an early vegetative pest of *Oryza sativa* L. **Gogoi, H.** and Bora, D.S. *Academic Journal of Entomology*, **2012** 5(1), 41-46.

Book/Book Chapter published

1. Bora, D.S., Khanikor B. and **Gogoi, H.** (2012). Plant based pesticides: Green environment with special reference to silkworms, In: *Pesticides- Advances in chemical and botanical pesticides*; Edt. R.P. Soundaranjan; In Tech, University Campus, STeP RI, Croatia, pp. 171-206.

Research guidance

Ph.D scholar

1. Ms. Taba Meth
Topic of research: Study on histological and biochemical profile of silk gland of Eri silkworm (*Samia cynthia ricini* Boisd.) reared on its primary food plants – Castor and Keseru
Year of PhD degree: Ongoing
2. Ms. Ruby Taid
Topic of research: Foraging ecology of Himalayan cliff bee *Apis laboriosa* Smith, 1871 in high altitudinal regions of Arunachal Pradesh and it's influence on honey quality
Year of PhD degree: Ongoing
3. Ms. Nyabin Riso
Topic of research: Quantitative Assessment and Mapping of the Diversity of Bees of Apidae Family in Northeast India
Year of PhD degree: Ongoing
4. Mr. Chihi Umbrey
Topic of research: Measuring and Mapping Diversity Pattern of non-Apidae Bees in Northeast India
Year of PhD degree: Ongoing

Course/Conference/Workshop organized

1. Webinar on "Locust Outbreak and its Management Strategies" organized by Department of Zoology and *Department of Zoology, RGU in collaboration with UBA cell of RGU, CHF (Pasighat), and DRL (Tezpur)*.
Duration: May 30, 2020
Role: Coordinator

Course/Conference/Workshop etc. attended

- Delivered an invited talk at Department of Zoology, Bhattadev University, Pathsala – 781325, Assam, India on 11th September, 2021.
Title of the presentation/talk: Insecticides and their modes of action
- Delivered an invited talk in Symposium “Potential of edible insects in northeast India” organized by Advanced level institutional biotech hub, Department of Biotechnology, Gauhati University, India on 30th March, 2019.
Title of the presentation/talk: Potential of the edible insect-based industry with reference to Arunachal Pradesh
- Presented a poster in the international conference on "Global biodiversity, climate change, and sustainable development. October 15-18, 2016 organized by Center with Potential for Excellence in Biodiversity, Rajiv Gandhi University, Arunachal Pradesh, India
Title of the presentation: Insect pollinators of crops and fruits in Arunachal Pradesh
- Delivered an oral presentation in national seminar on “Applied Zoology and Sustainable Development: An Update”, January 30-February 2, 2015 organized by Department of Zoology, University of North Bengal, Siliguri, Darjeeling, West Bengal, India.
Title of the presentation: Bioprospecting from the insects and spiders of Arunachal Pradesh in the Himalaya biodiversity hotspot and their ecology
- Presented a poster in national seminar on “Recent trends in bioresources management and biodiversity conservation” October 17-19, 2013 organized by CPEB-II, Rajiv Gandhi University, Arunachal Pradesh, India
Title of the presentation: Agro bio-diversity regulate pest population: Study in rice agro-ecosystem with reference to *Nymphula depunctalis* Guenée
- Delivered an oral presentation in national seminar on “Climate change and sustainable development”, 1st-3rd April 2010 organized by Department of Environmental Science, Tezpur University, India.
Title of the presentation: Bio-efficacy potential of some ethnically important plants against *Nymphula depunctalis* Guenée (Lepidoptera: Pyralidae) larvae

Sponsored Project

Title of the project	Funding agency	Year of sanction	Role
Impact of climate change on high altitude Himalayan honey bee <i>Apis laboriosa</i> Smith and its acclimatization in changing environment	DST, SPLICE-CCP, Govt. of India	2019	PI
“Quantitative assessment and mapping of the diversity of wild bees and honey bees of Northeast India” under the Major Research Project “Bioresource and Sustainable livelihoods in North East India”	DBT, Govt. of India	2018	PI

Foraging ecology of high altitude cliff bee (<i>Apis laboriosa</i> Smith) in-situ and its response to ex-situ management in lower altitude	DST-SERB, Govt. of India	2017	PI
“Commercial product yielding insects in Arunachal Pradesh” under the major research project CPEB-II, Rajiv Gandhi University, Arunachal Pradesh	UGC, New Delhi, India	2014	PI
