

# Dr. Bishnu Goswami, Ph.D., M.Sc.

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Village and Post: Nabagram

District: Purba Burdwan

State: West Bengal

Country: India

Pin: 713166

Doctor of Philosophy in Life Science (2024). Experienced as a mentor in Science. Fellow of World Science Congress.

**2026:** Currently a guest lecturer in Animal Science department of Kazi Nazrul University, Asansol, WB, India: Teaching both undergraduate and postgraduate students. Experience: ~1 year

Also a guest faculty in Netaji Subhas Open University, teaching Zoology to undergraduates.

## Fellowship

**Senior Research Fellow (Govt. of India)** on IT and Vector Biology(2020- 2023):University of Burdwan

Former **Junior Research Fellow (Govt. of India)** on IT and Vector Biology(2018-2020).

**Qualified CSIR-UGC NET Life Sciences**, 2016 June: Qualified with both Lectureship and Junior Research Fellowship in first year of master's as the sole person from the class.

I'm experienced in Biology Research, Software Development, Research writing, and Analysis.

## CERTIFICATES/ LICENCES

- 1) **University of Helsinki** certified on "**Elements of AI**"
- 2) **Cisco Certified** on "Computer Hardware Basics".
- 3) Super Earths and Life; By HarvardX.
- 4) Economic Democracy: The Cooperative Alternative; by EdinburghX.
- 5) Introduction to Linux; By LinuxFoundationX.
- 6) Introduction to Python for data science; By Microsoft.
- 7) **IBM Certified** on "Data Science Foundations".
- 8) **IBM Certified** on "Deep Learning Essentials".
- 9) **Cisco Certified** on "Introduction to Cybersecurity".
- 10) **Cisco Certified** on "Engaging Stakeholders for Success".
- 11) **Great Learning Certified** on "Project management".

## EDUCATION

**Ph.D in Zoology (Vector Biology+Information Technology)**

**M.Sc. in Zoology**, The University of Burdwan. Final Sem. GPA=8.87

**B.Sc. in Zoology**, Burdwan Raj College. First Class.

**Top standing in school (90%)**

**English Language Skills:** Perfect 100/100 score separately in Reading, Listening, Grammar and Vocabulary in a test conducted by British Council.

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

**1. (Pre-print) “A study on the seasonal distribution of mosquito vectors and a multidimensional approach towards their eradication using perception surveys on mobile software with concepts of AI among college students in Purba Bardhaman, India”**

Bishnu Goswami, Sarmila Pal

**2. Introduction of two new programming tools in Bengali and measurement of their reception among high-school students in Purba Bardhaman, India with the prototypic inclusion of a vector-biology module.**

Bishnu Goswami, Sarmila Pal

**Education and Information Technologies (2022): 1-23. Springer-Nature Group (IF: 5.5)**

**3. Variation of Vermicompost Quality Produced by Different Earthworm Species using Rural and Urban Garbage.**

Bishnu Goswami, Nirupama Goswami and Jagatpati Tah

International Journal of scientific research (ISSN 2247-8179) IF 3.58

**4. Use of software and extended precision of Finney’s table using probit analysis.**

Bishnu Goswami, Jagatpati Tah

International journal of scientific research. IF 6.391(2015)

**5. A PRIMARY SURVEY FOR THE NOVEL SYNTHESIS OF METHODS TO COMBAT VECTOR-BORNE DISEASES AND RELATED LONG TERM MANAGEMENT**

Bishnu Goswami, Sarmila Pal, Deb Prakash Pahari

Asian Journal of Advances in Research. (Vol 5 Issue 4)

**6. MULTI-PRONGED SURVEY AND PROTOTYPICAL INFORMATION TECHNOLOGY APPLICATION AGAINST VECTOR-BORNE DISEASE IN NOAKHALI, BANGLADESH**

Bishnu Goswami, Sarmila Pal, Kapil Ghosh

UTTAR PRADESH JOURNAL OF ZOOLOGY (Web of Science+UGC-Care Listed, ISSN: 0256-971X)

**7. INTRODUCTION OF A NEW PROGRAMMING TOOL, BSM, FOR VECTOR BIOLOGY AND PUBLIC HEALTH AND MEASURING ITS LIKABILITY USING AN ONLINE SURVEY**

Bishnu Goswami, Sarmila Pal

International Journal of Entomology Research (Web of Science+UGC-Care Listed, ISSN: 2455-4758)

## 8. A CORRELATIVE STUDY OF MOSQUITO BREEDING HABITATS IN A RURAL REGION OF WEST BENGAL, INDIA

Bishnu Goswami, Sarmila Pal

UTTAR PRADESH JOURNAL OF ZOOLOGY (Web of Science+UGC-Care Listed, ISSN: 0256-971X)

### REVIEWER IN PEER-REVIEWED JOURNALS

Acted as a double-blind peer-reviewer by invitation to a Springer Journal and another Web of Science listed Journal as an expert.

**1)Manuscript Title: Checklist of Indian fairyfly (Hymenoptera: Mymaridae) parasitoids - an Update**

**2) Manuscript Title: Analysis of millicompost and its effects on plant growth (2022)**

**3)Manuscript Title: The biocontrol activity of both *Bacillus thuringiensis* and *Beauveria bassiana* against *Spodoptera litura* and their toxic effect on the insect metamorphosis (2024)**

### PUBLICATIONS (BOOKS)

[Hyperlink to list of published books](#)

Publishers: Amazon Digital Services LLC , PENGUIN RANDOM HOUSE SOUTH AFR. , LIGHTNING SOURCE INC. (Tennessee,USA)...

SR No	Category	Title	Author(s)	ISBN
1	Aptitude	Acing the aptitude, published April 2017	Bishnu Goswami	ISBN-13: 978-1521127452;ISBN-10: 152112745X
2	Aptitude	A+ on Aptitude: CSIR-UGC NET , published August 2017	Bishnu Goswami	ISBN-10: 152112745X ISBN-13: 978-1521127452
3	Aptitude	THINK, AND THEN SOLVE!: For Competitive exams, Banking, Railways, SSC etc	Bishnu Goswami	ISBN-10: 1717971784 ISBN-13: 978-1717971784
4	Life Sciences	51 Tips to crack NET Life Science (JRF), published December 2016	Bishnu Goswami	ISBN-13: 978-1520246161;ISBN-10: 1520246161
5	Life Sciences	Successful Methods for CBSE-UGC NET JRF Paper 1	Bishnu Goswami	ASIN: B07CR3DGRP
6	Life Sciences	Fundamental strategies for NET LIFE SCIENCES: Innovative ideas, discussions and secrets.	Bishnu Goswami, Dr.Nirupama Goswami	ISBN-10: 1977026540 ISBN-13: 978-1977026545
7	Life Sciences	Crack NEET and clarify the conceptual conduits- A guide for biology.	Bishnu Goswami	ISBN-10: 1790292565 ISBN-

				13: 978-1790292561
8	Literature	Poetry Plumules	Bishnu Goswami	ISBN-10: 1723797987 ISBN-13: 978-1723797989
9	Literature	The 'Desi Dog' and their 'God': A firsthand experience for over a decade	Bishnu Goswami	ISBN-10: 1729204007 ISBN-13: 978-1729204009
10	Literature	The World in Pen: A Brief memoir of Pen-Palling around the globe	Bishnu Goswami	ISBN-10: 1092138838 ISBN-13: 978-1092138833
11	Literature	The last small train of Katwa	Bishnu Goswami	ISBN-10: 1075496179 ISBN-13: 978-1075496172
12	Literature	Kashmir in Zenith	Bishnu Goswami	ISBN-13: 979-8651582402
13	Personal Development	Abstract Thinking Primers	Bishnu Goswami	ISBN-10: 1976963869 ISBN-13: 978-1976963865
14	Personal Development	Perfect Speech and Presentation	Bishnu Goswami	ISBN-10: 1723797510 ISBN-13: 978-1723797514
15	Personal Development	Sciwords	Bishnu Goswami	ISBN-10: 1983266043 ISBN-13: 978-1983266041
16	Personal Development	Personality Preferences: How MBTI manifests in the personality of over 30 individuals	Bishnu Goswami	ISBN-10: 1072582465 ISBN-13: 978-1072582465
17	Personal Development	Pedagogy towards Perfection: and Other Essays	Bishnu Goswami	ISBN-10: 1709599316 ISBN-13: 978-1709599316
18	Software Development	Indie Game Development : 30 challenging ideas for beginners	Bishnu Goswami	ISBN-10: 1723796638 ISBN-13: 978-1723796630

19	Software Development	Game Development for beginners in Game Maker	Bishnu Goswami	ISBN-10: 1719942986 ISBN-13: 978-1719942980
20	Software Development	The BASICS of MONETIZATION for GAMES in GAME MAKER.	Bishnu Goswami	ISBN-10: 1791965369 ISBN-13: 978-1791965365
21	Software Development	Progressive Web Apps for Social Development	Bishnu Goswami, Rohin Chatterjee	ISBN-10: 1096165880 ISBN-13: 978-1096165880
22	Software Development	BongoJontro: Dual Language Edition	Bishnu Goswami	ASIN: B07VNZXJQS
23	Strategy	BChess: Introducing a new variant of Chess	Bishnu Goswami	ISBN-10: 1724048899 ISBN-13: 978-1724048899
24	Strategy	A few new board games: Four new variations to popular board games	Bishnu Goswami	ISBN-10: 1798164337 ISBN-13: 978-1798164334
25	General Science	Astronomy 123	Bishnu Goswami	ISBN-10: 1652249192 ISBN-13: 978-1652249191
26	Applied Analysis	Gaussian Curves: From A to Z	Bishnu Goswami	ISBN-13: 979-8666479483
27	Critical Analysis	Early Adverts: Unsung words post-liberalization	Bishnu Goswami	ISBN-13: 979-8681579908
28	General Guide	Technology Post-2020: A guide for work-from- homers and new users	Bishnu Goswami	ISBN-13 : 979-8554244612
29	Life Sciences	A for Animals: Facts you must know!	Bishnu Goswami	ISBN-13 : 979-8518740631
30	Literature	Bouquet and other poems	Bishnu Goswami	ISBN-13 : 979-8459268294

31	Applied Analysis	2051: Predictions about the future world	Bishnu Goswami	ISBN-13 : 979-8499767252
32	Science and Literature	The Spirit of Spacetime	Bishnu Goswami	ISBN-13 : 979-8403098946
33	Inclusive Development	Computing India: Our journey to make coding accessible to the masses	Bishnu Goswami	ISBN-13: 979-8441302890
34	Travel	One Dusk at Dar: Impressions of visiting a river and her people	Bishnu Goswami	ISBN-13: 979-8830722940
35	Literature	Jacaranda's Jest: A collection of poems	Bishnu Goswami	ISBN-13: 979-8841036319
36	Education	Unmilled Maestros: Accompaniments for the 22nd century education	Bishnu Goswami	ISBN-13: 979-8353147558
37	General Science	Small book of unsolved questions	Bishnu Goswami	ISBN-13: 979-8365026353
38	Literature	The Poco Melodies: A collection of songs	Bishnu Goswami	ISBN-13: 979-8374971040
39	Applied Analysis	On Intelligence: A gist on the characteristics and the way forward	Bishnu Goswami	ISBN-13 : 979-8391180319
40	Applied Analysis	Against Strong Atheism: A simple explanation for laymen	Dr. Bishnu Goswami	ISBN-13 : 979-8322178064
41	Interdisciplinary analysis	Gita for contemporary times	Dr. Bishnu Goswami	979-8326066749

42	Aptitude	Win the Wonderlic: and other similar tests	Dr. Bishnu Goswami	979-8328816885
43	Science and Technology	Biology, computing and AI	Dr. Bishnu Goswami	979-8339628248
44	Literature	The bright book of poetry	Dr. Bishnu Goswami	979-8304846042
45	Literature	Ways of my childhood	Dr. Bishnu Goswami	979-8304846042
46	Education	The MOUNTAIN model: for best education	Dr. Bishnu Goswami	979-8268965766
47	Epochal	The End of Solo Thinking: How Artificial Minds Are Redefining Human Thought	Dr. Bishnu Goswami	979-8248872428
48	Technology	FUTURE -PROOFING: A take on consumer gadgetry and politico-environmental sustainability	Bishnu Goswami	979-8617612457
49	Aptitude	Aptitude for aspiring professionals: Intelligent approaches in interview or written tests	Bishnu Goswami	979-8588363099

## PUBLICATIONS (BOOK CHAPTERS)

SR No	Book Name	Article name	Author(s)	ISBN
1	History, Heritage and Religion: Problems and Perspectives	<b>The relevance of some ancient dominant texts in modern biodiversity management</b>	Bishnu Goswami	978-93-87706-43-9
2	Dharmasastras: Guide to Modern Society	<b>Holistic sustainable development in the light of Dharmasutras</b>	Bishnu Goswami	978-81-952719-3-1

3	Life as Basic Science: An Overview and Prospects for the Future	<b>Sustainable basic science: New avenues in vector biology and a novel artificial intelligence paradigm for research in public health.</b>	Dr. Bishnu Goswami, Prof. Ashis Kumar Panigrahi	ISBN: 978-81-969828-9-8
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## CONFERENCE PRESENTATIONS

### **1) Variation of Vermicompost Quality Produced by Different Earthworm Species using Rural and Urban Garbage.**

Bishnu Goswami, Nirupama Goswami and Jagatpati Tah

International Journal of scientific research (ISSN 2247-8179) IF 3.58

### **2) Development of awareness for conserving natural flora special emphasis with the medicinal plants and their proper commercial utilization in Indian sub-continent.**

Bishnu Goswami

Poster, World Science Congress 2015

### **3) BScript- A new interface software for quick development.**

Bishnu Goswami

International Science Congress association Abstract book. (8th and 9th Dec, 2015)

### **4) Innocuous encryption using images.**

Bishnu Goswami

Poster, World Science Congress 2016

### **5) Use of software and extended precision of Finney's table using probit analysis.**

Bishnu Goswami, Jagatpati Tah

International journal of scientific research. IF 6.391(2015)

### **6) Transgenic Fish**

National Conference on Advances of Life Sciences and Radiation Biology, the University of Burdwan(joint)

### **7) Automated Questionnaire Using Fischer-Yates Shuffle**

Poster, International Science Seminar, organized by Burdwan Raj College and Indian Chemical Society

### **8) Affordable Hardware and Approachable Software in ICT for development.**

Poster, 2nd regional Science and Technology Congress, West Bengal

### **9) Inventory Manager-Autonomous Technology for Laboratories.**

Poster in Shyamsundar college seminar "Science: Past, Present and Future"

### **10) Interfacing technological systems in software for affordable public health solutions.**

Oral Presentation in "International Conference on Frontiers in Biological, Environmental and Medical Sciences, Burdwan 2018".



**11)BBTech- A beginner oriented coding tool for Biotechnology.**

Poster in the international conference “Biotechnology: A paradigm shift in Health and Agriculture”, organized in Adamas University.

**12) Progressive Web Apps and Web Assembly in the Biology of Tomorrow.**

In the Golden Jubilee International Conference on Trends in Zoology, 2019.

**13) The relevance of some ancient dominant texts in modern biodiversity management**

Oral Presentation in the ‘Seventeenth Annual Conference of Bharata Vidya Charcha Kendra’, 2019.

**14) C-Pterido: A prototypic software platform for Pteridophytic identification using external keys.**

In the International Conference on ‘Next Generation Pteridology: The Indian Perspective”, 2019.

**15) Culture, society and politics: Is there a new colonial period?**

In the ICSSR sponsored National Conference on Culture, society and Politics: Colonial and post-colonial period, 2020.

**16)Further developments of C-Pterido**

In the XVI Conference of the Indian Fern Society, 2022

**17)The use of Bongojontro for budding researchers in chemistry**

In the Virtual Conference on Chemistry and its applications, endorsed by IUPAC, by University of Mauritius 2022

**18) Evolving scopes of Information Technology and social inclusion for vector-borne disease elimination**

Oral presentation in 2-day national seminar "Popular and Basic Sciences: A quest towards foundation of science" organized by Sarat Centenary college, Dhaniakhali, Hoogly, W.B, 2022.

**19) Ferns against the deadliest of man's enemies: Creating a geospatial dashboard**

Oral presentation in 3-day national XVII Annual conference of The Indian Fern Society being organized by Mansarovar Global University.

**20) Mitigating crisis and enhancing sustainability through the equitable framework of the Bongojontro software**

Poster presentation in the 3-day international seminar entitled “9<sup>th</sup> International Conference on Environment and Ecology” held in the University of Burdwan, 2023.

**21) Betel leaves: Greater roles in public health and climate change preparedness.**

Oral presentation in 3-day national conference organized by the Ladakh University in collaboration with AYUSH

**22) Dharmasashtras, guide to sustainable prosperity**

Oral presentation in 2-day international seminar organized by the Dept. And IQAC, Katwa College.

## WORKSHOPS/ WEBINARS/SEMINARS ATTAINED

### 1) Induced Breeding & larval rearing of Indian Magur

Held in the University of Burdwan, 2017.

### 2) 2-day International Webinar on “Aquatic Ecosystem: Prospect and Future Challenges”.

Organized by Presidency University, 18-19 July, 2020.

### 3) British Indian Psychiatric Association webinar on “Social inequalities and mental health”, 2020.

### 4) Global Young Leaders (Amsterdam, Netherlands) and others on "Importance of Education and Educators", 2022.

## PROFESSIONAL WORK

**Developer in Amazon store** as App-Developer (2014)

**Developer in Slide Me Store** as App-Developer (2014)

Developer in many other app-stores. Now maintains a non-commercial site ([bishnu.itch.io](http://bishnu.itch.io)).

## PARTICIPATION AS A TEAM

1. Participant in the Harvard University Puzzle Week as a member in a four-person team. Other three members were from Germany, USA and Egypt.
- 2) Co-Developer of unreleased SNIPER Windows game demo.
- 3) Participant in Entrepreneurship Cell, IIT KGP 2018

## INVITED LECTURES

- 1) Delivered an Invited Lecture on the topic “Biological evolution” during the celebration of International Museum day at Burdwan Science Centre, National Council of Science Museums, Ministry of Culture, Government of India.
- 2) Delivered an Invited Lecture in the context of Ecology during the celebration of International Museum day at Burdwan Science Centre, National Council of Science Museums, Ministry of Culture, Government of India.
- 3) Delivered an **Invited Lecture** on the topic “Past and Future: Mosquito control following the legacy of Vidyasagar” in **Gandhi Ashram Trust, Noakhali, Bangladesh, 2019.**
- 4) Delivered an Invited Lecture on the topic "A bottom-up approach for public-health development utilizing artificial intelligence and BSM coding" as a resource person in ENDEV 08, 2021, organized by Flora and Fauna Asia group in collaboration with DRISHTICON organization.
- 5) Delivered an Invited Lecture on the topic "Sustainable eradication of vector borne diseases" on the occasion of Earth Day, 2021, organised by Digha Science Centre & National Science Camp
- 6) Invited by the World Science Congress to deliver a talk in the 12th International Science Conference, Ram Manohar Lohia Hospital, New Delhi on "Pandemics and Social Disaster" (2022)

## MENTORING AND VOLUNTARY WORK

- 1) Voluntarily Mentored the innovation hub students on the project “Biology and Computing” at Bardhaman Science Centre, National Council of Science Museums, Ministry of Culture, Government of India **(12 months).**
- 2) Successfully created two software applications in the innovation lab: Poison-Snakes and MosaDomon, aimed at social welfare.

- 3) Contributed to the Centre for Research Studies and Development with content such as “Not only Corona”(<https://crsdngo.blogspot.com/2020/05/not-only-corona.html>).

## HONORS / AWARDS

- 1) World Science Congress, Delhi 2015- Presentation 1st Position
- 2) International Science Congress Association, Nepal, Dec 2015- Oral Speaker
- 3) World Science Congress, Kolkata 2016- Presentation 1st Position
- 4) International Conference on Frontiers in Biological, Environmental and Medical Sciences, Burdwan 2018- Oral Speaker- Best Presentation
- 5) College cultural Fest Event- 3rd prize
- 6) College Poster Presentation with external judges- 2nd Prize
- 7) Inter-college competition-Guskara College- Debate 3rd position
- 8) Inter-college competition-Guskara College- Quiz 2nd position
- 9) Science Fair Finalists- University finals-Debate 2nd position
- 10) Science Fair Finalists- University finals-Quiz 2nd position

## MEMBERSHIPS / AFFILIATIONS

- 1) Active member of the **Society of Mental and Rhetorical Training**, which was created by Dr. S. Mohan, Former District Magistrate, Burdwan (2013-2020).
- 2) **Life Member: World Science Congress**
- 3) Member of Innovation Hub, Burdwan Science Centre, National Council of Science Museums, Ministry of Culture, Government of India for 2017-18 session.
- 4) Regular contributor to Quora, inc.

## SOFTWARE DEVELOPMENT (NONCOMMERCIAL)

Have created and published numerous software. Some of these software are-

- 1) Advanced Education apps (Example - BQuiz)
- 2) Development apps (Example - BScript)
- 3) Management Apps (Example - Library Manager by Bishnu)
- 4) Educational Apps (Example - Rock Paper Scissors- Making a simple game)
- 5) Games (Example- SpaceGun)
- 6) Research Tools (Example- FishMeal calculator, Knowfish(Alpha))
- 7) Statistical tools (Example- FinanceStat )
- 8) Special Device Applications (Example- Various ports of own software to the hacked Kindle Platform)
- 9) Remakes(Example-A prototype recreation of the LOGO programming language )
- 10) Developer of a **programming language in Bengali using English Script**.