

VISHWA JAGATI

RESEARCHER

CONTACT

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Hyderabad, India

SKILLS

Field skills

- Avifaunal and herpetofauna sampling and handling
- Quadrat sampling
- Natural history observations & field data collection
- Photography & Videography

Laboratory techniques

- Tissue & DNA extraction
- PCR, Gel run
- Operating- Gel documentation systems, compound microscope, stereo microscope

Software

- Programming - R, Python, & MATLAB (basics)
- Phylogenetic analyses - MEGA, RAxML, PartitionFinder, MrBayes, Chromas, IQ-TREE, BEAST
- Others - QGIS, MS Office, Photoshop, Lightroom, Canva

Languages

- English, Telugu & Hindi

EDUCATION

BS-MS | CGPA 7.63 2017-2022
National Institute of Science Education and Research, Bhubaneswar, India

Higher Secondary School
CGPA 7.58 2016
Jawahar Navodaya Vidyalaya, Sirpur
Kagaznagar, Telangana, India

Secondary School
CGPA 9.8 2014
Jawahar Navodaya Vidyalaya, Sirpur
Kagaznagar, Telangana, India

PROFILE

My research interests converge on a multidisciplinary exploration of behavioral ecology and evolution, focusing on life history traits, sexual selection, parental care, mating systems, and conservation. Furthermore, I am interested in Phylogenetics and Biogeography.

RESEARCH EXPERIENCE

Masters Dissertation

October 2020-May 2022

Unveiling nesting strategies: Investigating visual concealment and nest-site selection in Yellow-wattled Lapwings, *Vanellus malabaricus* (Boddaert, 1783)

Dr. Aniruddha Datta-Roy | Dr. Geetha Ramaswami | NISER, Bhubaneswar, India

- This study aimed to explore the significance of two common visual concealment tactics used by open ground-nesting birds: concealing nests through vegetation and utilizing camouflage, with a focus on the Yellow-wattled Lapwing as the subject species.
- Furthermore, the research investigated nest-site preferences of Yellow-wattled Lapwings in relation to factors like vegetation cover, food availability, and background substrate.

Junior Research Fellow

March 2023-September 2023

Speciation in sky islands: A reappraisal of endemic skinks from the Western Ghats biodiversity hotspot

Dr. Aniruddha Datta-Roy | Mr. Avrajjal Ghosh | NISER, Bhubaneswar, India

- Exploring speciation and dispersal patterns among two genera of South Asian skinks- *Kaestlea* and *Ristella*.
- Performing an array of laboratory-based tasks such as Tissue & DNA extraction, performing PCR & gel run, and engaging in critical aspects of phylogenetic analyses such as sequence alignment and building trees.

Intern

October 2022-February 2023

Understanding connectivity of range-restricted birds in Shola Sky islands

Dr. V V Robin | Mr. Jobin Varughese | IISER, Tirupati, India

- The project involves examining the occupancy and abundance of understory birds in the montane landscapes of the Western Ghats. The project included analyzing various vegetational and landscape variables that potentially influence the current distribution of these birds.
- My work included rigorous fieldwork collecting data related to bird abundance and various vegetation-related variables from the montane landscapes of the Shola sky islands of the Western Ghats of India.

Intern

July 2022-September 2022

Conservation of Great Indian Bustard and Lesser Florican

Mr. Rakesh Kalva - Andhra Pradesh Forest Department, India

- A comprehensive assessment of grasslands within a radius of 30 km around the Rollapadu Wildlife Sanctuary, to determine the current status of them and to understand the impact of existing land use on their survival.

Intern

June 2018 to July 2018

Effects of gut microbiome on gut-brain-gut axis

Dr. Palok Aich | NISER Bhubaneswar, India

- Trained in mice handling fundamentals, procedures related to their experiments, and assisted with the mice behavioral tests, and the mice dissection.

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RESEARCHER

ACADEMIC

ACHIEVEMENTS

- Junior Research Fellowship funded by SERB, Govt. of India
- GATE 2022 and 2023 | Ecology and Evolution | All India Rank 92 and 107
- GATE 2022 scholar | Life Sciences
- DISHA scholarship | 2017-2022
Scholarship of INR 5,000 per month, and an annual contingency grant of INR 20,000
- Joint CSIR NET Life Sciences | Lectureship
- Navodaya scholarship | 2009-2016

EXTRACURRICULAR ACTIVITIES

Member

Oorna : Nature Club | NISER

- Project head - Bird Field guide
- Led volunteers in the event - Campus Bird Count (CBC) 2021 and 2022 (a sub-event of the Great Backyard Bird Count)

Member

Snake Rescue | NISER

- Assisted in multiple snake rescues around human-inhabited areas in NISER campus.

Member

Sapsara : Photography Club | NISER

PUBLICATIONS

V. Jagati, G. Ramaswami, A. Datta-Roy (2023). Unveiling nesting strategies: Investigating visual concealment and nest-site selection in Yellow-wattled Lapwings, *Vanellus malabaricus* (Boddaert, 1783). bioRxiv. <https://doi.org/10.1101/2023.08.13.552636>

WORKSHOPS AND CONFERENCES

Speed talk

October 2020-May 2022

Association for Tropical Biology and Conservation 2023

- **Vishwa Jagati**, Geetha Ramaswami, Aniruddha Datta-Roy
Breeding ecology of Yellow-wattled Lapwing, *Vanellus malabaricus* (Boddaert 1783)

Poster presentation

Understanding Behaviour 2023

June 2023

- **Vishwa Jagati**, Geetha Ramaswami, Aniruddha Datta-Roy
Breeding ecology of Yellow-wattled Lapwing, *Vanellus malabaricus* (Boddaert 1783)

Volunteer

Bird monitoring in India symposium 2023

April 2023

Poster presentation

Bird monitoring in India symposium 2022

April 2022

- **Vishwa Jagati**, Geetha Ramaswami, Aniruddha Datta-Roy
Breeding ecology of Yellow-wattled Lapwing, *Vanellus malabaricus* (Boddaert 1783)

Inclusive Ecology 2022

February 2022

Inclusive Ecology 2021

February 2021

PROFESSIONAL SERVICE

Peer-reviewed articles for the journals 'Avian Biology Research' and 'The Wilson Journal of Ornithology'

REFERENCES

Dr. Aniruddha Datta-Roy

Reader-F, School of Biological Sciences
National Institute of Science Education and Research, India
datta.roy@niser.ac.in

Dr. Geetha Ramaswami

Programme Manager, Education, and Public Engagement
Nature Conservation Foundation, Bengaluru, India
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