

Aditya Panigrahy *(He/Him)*

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Indian Institute of Science Education and Research, Tirupati, Andhra Pradesh, India-517619

EDUCATIONAL BACKGROUND

- BS-MS Student,
IISER Tirupati, Andhra Pradesh, INDIA 2020-2025(Ongoing)
Majoring in Ecology, CGPA: 8.5/10.0
- 12th std.(Indian School Certificate; ISC, CISCE),
De Paul School, Berhampur, Odisha 2020
Percentage of marks: 97.2%
- 10th std.(Indian School Certificate; ISC, CISCE),
De Paul School, Berhampur, Odisha 2018
Percentage of marks: 95.5%

RESEARCH EXPERIENCE

- **Project Student, Bird Lab** (August 2023- ongoing)
Supervisor: Dr. V.V. Robin, Associate Professor, IISER Tirupati
Project: *Assessing the detection accuracy and performance of BirdNET for a Western ghat endemic bird (Poster)*
- **Summer Intern, MITACS GRI Fellow** (May-August, 2023)
Supervisor: Dr. Brian McLaren, Associate Professor, Lakehead University, Canada
Projects: *Exploring Species-Specific Vocal Recognition in Social Songbirds- A case study on Black-capped Chickadees. (Report)*
- **Field Intern, Bird Lab** (May - July, 2022)
Supervisor: Dr. V.V. Robin, Associate Professor, IISER Tirupati
Projects:
1) *Assessing the diversity and distribution of mosquito vectors along an urbanization gradient in and around Kodaikanal, Tamil Nadu. (Team Lead) (presentation)*
2) *Estimating Avian Detection Probabilities using audio-visual cues correlating with various field and site variables. (Team member) (presentation)*
- **Research Intern, Sciurid lab** (January - March, 2022)
Supervisor: Dr. Nandini Rajamani, Assistant Professor, IISER Tirupati
Project: *Quantifying coat pattern characteristics from museum samples of Funambulus species (Palm Squirrels)*

COURSEWORK PROJECTS

- **Advance Ecology (BIO 317)**
Supervisor: Dr. V.V. Robin
Project: A study on ant (Solenopsis sp.) trail formation and factors affecting their path preference *(report)*
- **Behavioral Ecology (BIO 329)**
Supervisor: Dr. Nandini Rajamani
Project: A study on the social behavior of Ants in response to inter-colonial Interactions *(report)*

- **Foundations of Biology III - Evolution and Ecology (BIO 211)**
Supervisor: Dr. V.V. Robin
Project: A comparative study of spider biodiversity in the Deccan Inland region and Eastern coast (*report*)

GRANTS AND FELLOWSHIPS

- **MITACS Globalink Research Fellowship (2023)** - selected to participate in a fully funded summer internship program in Canada for 12 weeks.
- **Summer Research Fellowship (2022)**- selected by the Indian Academy of Sciences to complete an Internship Program in the Summer of 2022. (position not accepted)
- **INSPIRE Scholarship (2020-Present)** from the Department of Science and Technology, Govt. of India.
-for being in the top 1% scorers in the class 12th board at the national level.

TECHNICAL SKILLS

- **Analytical Skills:**
 1. *Programming languages:* Javascript, Python, R
 2. *Software:* Basic knowledge and usage of RStudio, QGIS, ImageJ, Maxent, BirdNET-GUI
- **Field Skills:**
 1. *Acoustic data collection:* automated and focal recorders
 2. *Biodiversity monitoring:* species and family level identification of birds and spiders in the field, respectively (effectively use binoculars and regular camera- for documenting observations)

RELEVANT COURSEWORK

- Foundations of Biology III, Probability and Statistics, Advance Ecology, Solid Earth Geophysics, Behavioral Ecology, Evolution, Non-Linear Dynamics, Data Science-I, Atmospheric Sciences and Cloud Dynamics, Introduction to Graph Theory

ADDITIONAL AFFILIATIONS

- Member of Young Advantage Program-2023 cohort, Institute of Bioecosciences, Virginia, US
Quantitative Ecology- QGIS, maxent modeling, and R analysis
- Website Intern at tirupatibiodiversity.org
- Campus Coordinator for IISER Tirupati- Mimamsa, 2023 (National Level Science Challenge)
- Volunteer for Tirupati Bird Atlas survey-2023 and GBBC-2023 (Great Bird Backyard Count)
- Attended Vijyoshi National Science Camp 2021, organized by the DST, Govt. of India.

OTHER INTERESTS

- *Sports-* Basketball (Institute team Captain) and Chess (Districts-U17).
- *Extracurricular activities-* Poetry (Hindi), Painting, Sketching, Photography, Birding
- *Languages-* proficient in English, basic spoken Odia and Hindi.

REFEREES

- **Dr. V.V. Robin**, [[Website](#)]
Associate Professor, IISER Tirupati,
Shola Sky Islands Lab (Bird Lab), IISER Tirupati
Email: robin@labs.iisertirupati.ac.in
- **Dr. Brian McLaren**,
Associate Professor, Faculty of Natural
Resources Department,
Lakehead University, Thunderbay
Email: bmclaren@lakeheadu.ca