



NINAD WADHAVE

BS-MS Biological Sciences

Indian Institute of Science Education and Research Bhopal
Bhopal, India

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RESEARCH OBJECTIVE

I aim to conduct Master's research in evolutionary genomics, shifting my focus from phenotypic observation to the molecular drivers of adaptation. My interest lies in using computational tools (Python/R) to investigate how genetic variation arises and persists within populations. I seek to contribute my quantitative background to a rigorous research group while gaining training in bioinformatics and population-level analysis."

EDUCATION

- **BS-MS in Biological Sciences (Dual Degree)**

Indian Institute of Science Education and Research (IISER), Bhopal

May 2027

RESEARCH & PROJECT EXPERIENCE

- **Project Intern | Ecological Impacts of ALAN**

Guide: Dr. Maria Thaker

Indian Institute of Science (IISc)

Bangalore, India

May 2025 - July 2025

- Contributed to and executed field experiments to assess the ecological impacts of Artificial Light at Night (ALAN) on Peninsular rock agama (*Psammophilus dorsalis*).
- Conducted standardized quantitative behavioural sampling and managed handling of live organisms under ethical protocols.

- **Project Intern | Pollen Diversity and Avian Behaviour**

Guide: Dr. Vinita Gowda

Tree Lab, IISER Bhopal

Bhopal, India

Dec 2024

- Worked as an intern assisting on projects related to pollen diversity and avian behaviour.
- Included behavioural experiments on Purple Sunbirds using artificial-flower arrays to test nectar-volume discrimination and quantify foraging decisions.

- **Project Intern | Water-Contaminant Remediation**

Guide: Dr. Surya Singh

ICMR-NIREH

Bhopal, India

May 2024 - July 2024

- Investigated water-contaminant remediation using natural biosorbents, successfully achieving ~70% pollutant removal efficiency.

- **Reading Project Intern | Ecological Trade-offs**

Guide: Dr. Meghna Krishnadas

CSIR-CCMB

Hyderabad, India

Dec 2023

- Conducted an extensive critical literature review on the ecological trade-offs between plant herbivory defense and pollinator interactions.

- **Course Project: Evolutionary Ecology**

IISER Bhopal

[Semester Project]

- Developed a computational simulation model for avian vocalizations to study evolutionary patterns in bird song frequency and modulation.

- Implemented the simulation framework using Python/R, demonstrating application of quantitative methods.
- **Course Project: Behavioural Cognition**
IISER Bhopal
 - Led a behavioural-cognition study ($n = 150$), overseeing experimental design, data collection, and statistical evaluation.

TECHNICAL SKILLS

- **Computation & Code**
R (Basic), Python (Pandas, NumPy), C++ (Basic)
- **Analysis & Modeling**
Statistical Hypothesis Testing, Regression Analysis, Bio-acoustic Modeling
- **Geospatial Tools**
QGIS (Habitat mapping, Spatial analysis)
- **Field Techniques**
Standardized Ecological Sampling, GPS Logging, Behavioural Observation
- **Laboratory**
Filtration Assays, Contamination Control, Specimen Handling

ACHIEVEMENTS & FELLOWSHIPS

- **Selected Research Intern**
IISc Bangalore (Competitive Selection)
- **NTSE Scholar**
National Talent Search Examination - Awarded by Govt. of India
- **Gold Medalist**
Science and Math Olympiad