

Faizee Ali Khan

Master's Student, Bird Lab, IISER Tirupati

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EDUCATION

Indian Institute of Science Education and Research, Tirupati 2019-Present

Five year Integrated BS-MS Program (5th year)

CGPA: 8.5/10

(Class XII) Gurukul Public School, Kawardha 2017-2019

Central Board of Secondary Education

Secured 95%

(Class X) Gurukul Public School, Kawardha 2005-2017

Central Board of Secondary Education

Secured 10/10 CGPA

SKILLS

Analytical

- Analyzing large ecological databases (like eBird)
- NGS and Phylogenetic analyses: Phyluce, IQtree, RAxML, MrBayes
- Good understanding of GIS-QGIS
- Bioacoustic analysis techniques: Raven, Rraven
- Community analyses, Parametric and non-parametric tests in R

Field

Invasive Techniques: Mist-netting, Bird-ringing, taking measurements and blood samples

Biodiversity Surveys: Have a good grasp on species identification of Birds, Mammals, Reptiles, and Spiders.

Non-Invasive Techniques: Fecal and spray sample collection, Camera trapping, Automated Recorder deployment

Driving: Geared two wheeler and Four-wheel drive vehicles

Learning: Snake Handling

Lab

DNA extraction and PCR techniques
NGS library preparation and enrichment

Languages

Proficient in English and Hindi, passable Urdu
Can Code in: R, Python, Java, SQL

RESEARCH & INTERNSHIP EXPERIENCE

Citizen Data Analyses | Seasonal elevational shifts Jan 2023 - Present

PI: Dr. Robin V. V., Associate professor

Indian Institute of Science Education and Research, Tirupati, India

Collaborator: Vijay Ramesh, Rose Postdoctoral Fellow, Cornell Lab of Ornithology, USA

Title: Avian Elevational Migration in the Western Ghats of India.

Description: Using data from the citizen science initiative eBird; I calculated the seasonal

elevational range shifts in birds of Western Ghats, and modelled their association with ecological traits. [Poster](#)

Phylogenetic Analyses | Partial migration August 2022 - Present

PI: Dr. Robin V. V., Associate professor, IISER, Tirupati, India

Title: Investigating divergence patterns within resident and migratory populations of Grey-headed Canary-Flycatcher.

Description: I looked for signatures of cryptic speciation in the *Culicicapa ceylonensis* subspecies complex using integrative taxonomy and investigating whether the genetic divergence in the subspecies associated with migratory behavior. [Poster](#)

Theoretical Ecology Lab | Summer Internship June 2022 - July 2022

PI: Dr. Vishwesh Guttal, Associate Professor

Center for Ecological Sciences, Indian Institute of Sciences, India

Title: PyDaddy: Learning Models from Data

Description: In this project, I learned about non-linear dynamics and limit cycles in populations and ecological communities. Also learned how to build models from data using the Python package PyDaddy. [Report](#)

Fieldwork in Ranthambore Tiger Reserve May 2022 - June 2022

PI: Dr. Uma Ramakrishnan, Associate Professor

National Centre for Biological Sciences, Bangalore, India

Title: Chemical Ecology of Tigers

Description: Collected tiger shed hair, urine spray, and fecal samples in Ranthambore Tiger Reserve, for the Ph.D. project of B. V. Aditi. I learned about planning field work and expenses, Tiger behaviour and tracking animals through indirect signs. [Report](#)

Spider Community Assembly | Course Project January 2022 - April 2022

Instructor: Dr. Robin V. V.

Title: The role of vegetation complexity on spider communities

About: As a part of Advanced Ecology(BIO327) course. I assessed the effect of vegetation structure on spider communities in the IISER-Tirupati Permanent Campus in different levels of anthropogenic disturbances, with the help of plot surveys, and vegan package in R. [Report](#)

Bird Lab, IISER Tirupati — Summer Internship June 2021 - July 2021

PI: Dr. Robin V. V.

Title: Measuring song complexity between individuals of the White-bellied Sholakili

Description: The White-bellied Sholakili(*Sholicola albiventris*) has a highly complex repertoire and we measure between individual song complexity using a recently devised metric - the Note Variability Index(Sawant et.al, 2021). [Report](#)

CONFERENCES & WORKSHOPS

ATBC 2023: Association of Tropical Biology Conference 2-6 July, 2023

Poster presentation on the degree of avian elevational migration in Western Ghats.

NSAB 2022: National Symposium on Avian Biology 9-11 November, 2022

Oral Presentation on divergence patterns within the widely distributed resident and migratory populations of Grey-headed Canary-Flycatcher.

Molecular Phylogenetics Workshop(Online)

27 June - 1 July, 2022

Instructor: Kunal Arekar, Ph.D., IISc Bangalore

Basic principles and analysis methods necessary to undertake a molecular phylogenetic study.

ISEB 3: International Evolutionary Biology Conference 16-18 February, 2022

International Conference on Insect Systematics and Evolutionary Biology

Organized by the Indian Society of Evolutionary Biologists and University of Patiala.
Attended Online.

RELEVANT COURSES

Evolution

Data Science

Basics of Ornithology

Microbiology

Advanced Ecology

Non-Linear Dynamics

Genetics

Biochemistry

Animal Physiology

GRANTS AND FELLOWSHIPS

Chapman Research Grant for Ornithology: 2600 USD

2023

Secured The Frank M. Chapman Memorial Fund of the American Museum of Natural History to conduct a study using the bird collections at the AMNH.

KVPY SX Fellowship: 348000 INR

2018 - Present

Secured The Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship, a National Program of Fellowship in Basic Sciences.

ADDITIONAL INFORMATION

Writing

- Content Writing Intern - [Tirupati Biodiversity Program](#).
- Research Article Summary for HerpBuzz Magazine 2022.
- Article on Dragonflies for [Minuscules.in](#)

Volunteer

- Coordinated Great Backyard Bird Count at IISER Tirupati, 2022.
- Tirupati Bird Atlas Survey 2022.
- Tirupati Urban Bioblitz 2020

Hobbies

- Trekking and exploring places
- Climbing Trees or any tall structure
- Meeting new people and experiencing cultures
- Playing the Flute

DOB

18th July, 2000

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