



# Karthik Thrikkadeeri

SENIOR RESEARCH ASSISTANT

Nature Conservation Foundation, India

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## Personal Information

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|-----------------|--|
| DATE OF BIRTH   | 24 March 1999  |
| SEX             | Male (he/him)  |
| NATIONALITY     | Indian   |
| MARITAL STATUS  | Unmarried  |
| DRIVING LICENCE | LMV & MCWG (India)   |
| LANGUAGES       | English, Malayalam (native), Hindi   |
| INTERESTS       | Ecological research (community ecology, macroecology, biogeography)<br>Data analysis and visualisation ( <b>fun data projects</b> )<br>Birdwatching ( <b>eBird profile</b> )<br>Poetry and creative non-fiction writing<br>Hip-hop |

## Education

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### DEGREES

#### University of South Bohemia in České Budějovice

České Budějovice, CZ

MSc IN ECOLOGY

2019–2021

- Thesis: “Habitat selection in post-breeding temperate forest birds”
- Supervisor: Katerina Sam

#### Christ University

Bengaluru, IN

BSc IN BIOTECHNOLOGY, CHEMISTRY, ZOOLOGY

2016–2019

### COURSES/WORKSHOPS

#### Azim Premji University

Bengaluru, IN

INTRODUCTION TO REMOTE SENSING USING QGIS

21–25 Nov 2022

- Basic principles of remote sensing, characterising different features of land surface, generating maps with land cover statistics

## Skills

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### FIELD

- Point counts, line transects, all-out/opportunistic search
- Sound recording (birds), telephoto photography (birds), macro photography
- Camera trapping, PCQ vegetation sampling, radio telemetry
- Excellent sight and sound ID of birds (India, Europe)
- Extensive field experience in diverse and challenging landscapes, habitats and terrains

### TECHNICAL

- Quantitative ecology and research design
- Data curation, management, processing and wrangling
- Reproducibility, version control and transparency in research workflows
- Copy editing and proofreading (English)

### SOFTWARE

- R, R Markdown & allies, Git/GitHub, QGIS
- ChatGPT, Bard
- Audacity, MS Office, Google Suite, Canva, ImageJ

## PERSONAL QUALITIES

Ambitious, patient, persistent, self-motivated, time management skills

## Certifications

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2023 **English CEFR C2: IELTS 2023 (Academic)**

Listening: 9.0; Reading: 9.0; Writing: 7.5; Speaking: 8.0; Overall Band Score: **8.5**

2023 **All-India Topper: Ecology and Evolution (EY) | Graduate Aptitude Test in Engineering (GATE) 2023**

Marks: 84.33; Score: **1000**

2018 **English CEFR C2: IELTS 2018 (Academic)**

Listening: 9.0; Reading: 9.0; Writing: 7.0; Speaking: 8.0; Overall Band Score: **8.5**

## Work Experience

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### Nature Conservation Foundation

*Bengaluru, IN*

SENIOR RESEARCH ASSISTANT

*Apr 2023–present*

- SolB 2023: Contributed to analysis, visualisation and writing for two chapters (large-scale trends, systematic monitoring) of report, and also produced website-specific outputs
- SolB 2023: Unified various analyses into pipeline framework, and functionised/parametrised scripts and added annotations, to improve accessibility to team as well as others
- SolB 2023: Cleaned, structured and organised GitHub repository to archive
- SolB 2023: Contributed to editing and proofreading as well as bibliography management for the full report
- Created an R package 'skimmr' for functions used repeatedly when working with eBird data in R in the Indian context
- Created a Shiny app based on eBird API that allows the user to generate a summary of the eBirding that happened in a given administrative unit on a given date(s)
- Created a GitHub repository to collate mapping data useful for eBird data analysis in the Indian context—mostly contains open shapefiles of administrative units

### Nature Conservation Foundation

*Bengaluru, IN*

RESEARCH ASSISTANT

*Aug 2021–Mar 2023*

- Analysed the effect of the COVID-19 pandemic on birdwatching and eBird data in India, and its implications for research using this data; wrote up and submitted manuscript to a peer-reviewed journal
- Established a version control (Git/GitHub) workflow for Bird Count India analyses to enable reproducibility as well as transparency
- Created a periodic analysis framework to identify and track regions in India that are most underrepresented in eBird data, in order to identify regions of priority where concerted action (strategised from these metrics) is required
- Created eBirding point maps for the country as well as for each state in India, made easily accessible to users and updated monthly
- Automated several periodically occurring data analysis tasks of Bird Count India (tracking metrics, results of challenges & birding events [post-hoc from EBD and also live summaries using eBird API and R], etc.)
- Improved eBird data quality in India by creating updated and more fine-scale (district-wise) filters for Tripura state
- Assisted birders with their queries regarding eBird data and how to analyse it for their own studies

### Biology Centre of the Czech Academy of Sciences

*České Budějovice, CZ*

PART-TIME EMPLOYEE

*Dec 2020–Feb 2021*

- Collated Katerina Sam's Papua New Guinea bird datasets spanning c. 4 years and uploaded to eBird

### Biology Centre of the Czech Academy of Sciences

*České Budějovice, CZ*

PART-TIME EMPLOYEE

*Oct 2020*

- Calculated herbivory damage from images of collected leaves from Cameroon using ImageJ software

### Centre for Ecology Development and Research (CEDAR Himalaya)

*Kumaon, IN*

RESEARCH INTERN

*Apr 2018–May 2018*

- Studied butterfly diversity patterns across a land-use intensification gradient in oak-pine forests of Kumaon Himalayas

### Agumbe Rainforest Research Station (ARRS)

*Agumbe, IN*

RESEARCH VOLUNTEER

*Apr 2017–May 2017*

- Assisted in field work and data entry for a project on breeding ecology of the Yellow-wattled Lapwing
- Additionally, learned basics of camera trapping, scale counting for snakes and PCQ vegetation survey

## Publications

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### RESEARCH ARTICLES

1. **K Thrikkadeeri** and A Viswanathan (2023). Birdwatchers' resilience to perturbation in India buffers citizen science from pandemic-induced biases. Preprint at *bioRxiv*: <https://doi.org/10.1101/2023.12.11.571083>.
2. L Schillé, ..., **K Thrikkadeeri**, et al. (2023). Latitudinal gradient in avian insectivory: complementary effects of climate, habitat and bird diversity. Preprint at *bioRxiv*: <https://doi.org/10.1101/2023.01.19.524212>.
3. J Praveen, ..., **K Thrikkadeeri**, et al. (2022). Kerala Bird Atlas 2015–20: features, outcomes and implications of a citizen-science project. *Current Science* 122(3).

### REPORTS

1. **SoIB 2023**. *State of India's Birds, 2023: Range, trends, and conservation status*. The SoIB Partnership. Pp. 119. Available online: [https://stateofindiasbirds.in/#soib\\_report](https://stateofindiasbirds.in/#soib_report).

### BOOKS

1. PU Antony, ..., **K Thrikkadeeri** et al. (2018). *Butterflies of Christ University Main Campus—A Pictorial Guide*. Centre for Publications, Christ University, Bangalore, India.

### IN PIPELINE

1. **K Thrikkadeeri**, ..., A Viswanathan (*under review*). Birdwatchers rapidly unravel the wintering distribution of the cryptic West Himalayan Bush Warbler (*Locustella kashmirensis*).
2. **K Thrikkadeeri** and A Viswanathan (*in prep.*). No evidence at large scale for “return” of bird life in the Indian anthropause.
3. A Viswanathan, **K Thrikkadeeri**, et al. (*in prep.*). State of India's Birds 2023: A blueprint to leverage semi-structured citizen science for bird conservation.
4. **K Thrikkadeeri**, I Freiberga, LR Jorge, K Sam (*in prep.*). Post-breeding birds dynamically track habitat structure over the season in a Central European forest.
5. **K Thrikkadeeri**, ..., G Shahabuddin (*in prep.*). A checklist of butterflies from a land-use intensification gradient in Kumaon Himalayas.

## Presentations

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### CONTRIBUTED

- 2023 **Talk**: *Citizen Science at NCF Field Sites*. Presented with Mittal Gala. NCF Annual Meet 2023, Mysuru, IN.
- 2022 **Talk**: *The impact of the COVID-19 pandemic on birding and birds in India*. NCF Annual Meet 2022, Mysuru, IN. (See slides or code)
- 2022 **Talk**: *The impact of the COVID-19 pandemic on birding and birds in India*. International Ornithological Congress 2022, online. (See slides or code)
- 2022 **Poster**: *The impact of the COVID-19 pandemic on bird monitoring in India*. Bird Monitoring Symposium 2022, online.
- 2019 **Talk**: *Inventory of butterfly species along a land-use intensification gradient in moist temperate forest biome in Kumaon Himalayas*. Ecology Seminar, University of South Bohemia, CZ.
- 2018 **Talk**: *A study on avian diversity in an industrial area of the Palghat Gap*. National Seminar on Development and Ecological Sustainability: Issues in Emerging India (DESIEI) 2018, Bengaluru, IN.

## Workshops

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### Analysing eBird data with R

KERALA BIRD MONITORING MEET (KBMM) 2023

- Led workshop for c. 20 participants (birders) with assistance from Praveen J

Thrissur, IN

Jun 2023

## Introduction to Merlin and eBird tools

Silchar, IN

ASSAM UNIVERSITY, SILCHAR

May 2022

- Assisted Mittal Gala in short outdoor training session for eight MSc Physics students
- Introduced features of Merlin Bird ID and eBird Mobile, and demonstrated practical usage
- Interacted with students on general queries about birds and birding

## Bird monitoring and eBird

Lembucherra, IN

COLLEGE OF AGRICULTURE, LEMBUCHERRA

May 2022

- Assisted Mittal Gala in indoor workshop for c. 40 participants (students and local birders)
- Provided technical assistance, coordination support, and ad-hoc engagement with audience

## Field Activities

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### Bird Surveys

IN

VOLUNTEER DATA COLLECTOR

2019–present

- Periyar Bird Survey (Jan 2023) in Periyar Tiger Reserve, Kerala (team lead)
- Attappady Bird Survey (Dec 2022) in Attappady, Kerala (team lead)
- Panna Bird Survey (Mar 2022) in Panna Tiger Reserve, Madhya Pradesh (team lead)
- Wet Season Survey of Kerala Bird Atlas (Jul 2019) in Silent Valley National Park, Kerala

### Field research

Dudhwa, IN

TEAM MEMBER

Apr 2023

- Contributed to data collection and discussions during the Bengal Florican survey (part of the grassland monitoring project of The Habitats Trust) in Dudhwa–Pilibhit landscape, Uttar Pradesh

### Expeditions

Betul, IN

EXPEDITION MEMBER

Feb 2023

- Joined mini-expedition to survey the birds of Betul, an underbirded district in Madhya Pradesh

## Other Activities

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### ORGANISATIONAL

#### North Wayanad Forest Division Bird Survey 2023

North Wayanad, IN

ORGANISER

Mar 2023

- Helped formulate survey methodology, and managed technical logistics (eBird as a tool) and data quality

#### National Seminar DESIEI 2018

Bengaluru, IN

ORGANISER, EDITOR

Dec 2018

- Member of symposium's Organising Committee
- Led editorial work including editing, proofreading, typesetting, and publishing of Abstracts book

### VOLUNTEERING

#### eBird data analysis consultation, Bird Count India

Online

OFFICE HOURS

Dec 2022–present

- Offered office hours consultation for individuals or groups on how to analyse eBird data (see <https://birdcount.in/analysis-consultation/>)

#### eBird data quality

Online

REGIONAL REVIEWER & HOTSPOT EDITOR

May 2022–present

- Regional Reviewer for Tripura, IN; Hotspot Editor for Tripura, In & Meghalaya, IN

#### Bird Monitoring Symposium

Online

VOLUNTEER

Mar 2023

- Managed session talks, Q&As and comments on Discord, as well as assisted participants with queries

#### NCF Annual Meet

Mysuru, IN

VOLUNTEER

Oct 2022

- MCd a session of talks

#### Bird Monitoring Symposium

Online

VOLUNTEER

Apr 2022

- Managed session talks, Q&As and comments on Slack, as well as assisted participants with queries

### ADMINISTRATIVE

## High-performance server administration

COORDINATOR

*Bengaluru, IN*

*2022–present*

- Coordinated usage of NCF High Altitude Programme's high-end server among various interested parties, as well as its maintenance

## Mentoring

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**Vyom Vyas** Assisted in designing a behavioural study on the breeding ecology of Purple Sunbird

## Referees

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### DR ASHWIN VISWANATHAN

Research Associate, Education and Public Engagement  
Nature Conservation Foundation, Mysuru, India  
Email: [ashwinv@ncf-india.org](mailto:ashwinv@ncf-india.org)

### DR SUHEL QUADER

Scientist, Education and Public Engagement  
Nature Conservation Foundation, Mysuru, India  
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### PRAVEEN J

Scientist, Education and Public Engagement  
Nature Conservation Foundation, Mysuru, India  
Email: [praveen.j@ncf-india.org](mailto:praveen.j@ncf-india.org)

### MGR KATERINA SAM, PHD

Head, Laboratory of Multitrophic Interactions  
Biology Centre of the Czech Academy of Sciences, České Budějovice, Czech Republic  
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### DR PU ANTONY

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Christ University, Bengaluru, India  
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