



Karthik Thrikkadeeri

SENIOR RESEARCH ASSISTANT

Nature Conservation Foundation, India

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Personal Information

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, migration, biogeography) Birdwatching (eBird profile) Poetry and creative non-fiction writing Quantitative data analysis and visualisation (fun data projects)

Education

DEGREES

University of South Bohemia in České Budějovice

MSC IN ECOLOGY

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

České Budějovice, CZ

2019–2021

Christ University

BSC IN BIOTECHNOLOGY, CHEMISTRY, ZOOLOGY

Bengaluru, IN

2016–2019

COURSES/WORKSHOPS

Azim Premji University

INTRODUCTION TO REMOTE SENSING USING QGIS

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

Bengaluru, IN

21–25 Nov 2022

Skills

FIELD METHODS

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

TECHNICAL

- Quantitative ecology (particularly community and macroecology) and research design
- Data curation, management, processing and wrangling
- Reproducibility and transparency in research workflows
- Editing and proofreading of written material (English)

SOFTWARE

- R, R Markdown & allies, Git/GitHub, QGIS

- ChatGPT, Bard
- Audacity, Canva, MS Office, Google Suite, ImageJ

PERSONAL QUALITIES

Patience, persistence, self-motivation, ambition, time management

Certifications

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

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 a GitHub repository to collate functions used repeatedly when working with eBird data in R—to potentially be converted into a package
- 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

RESEARCH ARTICLES

1. L Schillé, ..., **K Thrikkadeeri** et al. (2023). Latitudinal gradient in avian insectivory: complementary effects of climate, habitat and bird diversity. Preprint at *BioArxiv*: <https://doi.org/10.1101/2023.01.19.524212>.

2. 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.

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** and A Viswanathan (*rejected, in revision*). Effects of COVID-19 pandemic on birding in India, and implications for citizen science inference.
2. **K Thrikkadeeri**, ..., A Viswanathan (*under review*). Occurrence of West Himalayan Bush Warbler (*Locustella kashmirensis*) in Eastern Himalaya Terai.
3. **K Thrikkadeeri**, R Chanda, RD Kishore and R Singh (*under review*). Sighting of the Jungle Cat in an urban hotspot in Bengaluru city, Karnataka, India.
4. A Viswanathan, ..., **K Thrikkadeeri** et al. (*in prep.*). State of India's Birds 2023: Background and Methodology.
5. **K Thrikkadeeri**, I Freiberga, LR Jorge, K Sam (*in prep.*). Habitat selection in post-breeding temperate forest birds.
6. **K Thrikkadeeri**, ..., G Shahabuddin (*in prep.*). A checklist of butterflies from a land-use intensification gradient in Kumaon Himalayas.

Presentations

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

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

ASSAM UNIVERSITY, SILCHAR

- 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

Silchar, IN

May 2022

Bird monitoring and eBird

COLLEGE OF AGRICULTURE, LEMBUCHERRA

- 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

Lembucherra, IN

May 2022

Field Activities

Bird Surveys

VOLUNTEER DATA COLLECTOR

IN
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

TEAM MEMBER

Dudhwa, IN
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

EXPEDITION MEMBER

Betul, IN
Feb 2023

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

Other Activities

ORGANISATIONAL

North Wayanad Forest Division Bird Survey 2023

ORGANISER

North Wayanad, IN
Mar 2023

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

National Seminar DESIEI 2018

ORGANISER, EDITOR

Bengaluru, IN
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

OFFICE HOURS

Online
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

REGIONAL REVIEWER & HOTSPOT EDITOR

Online
May 2022–present

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

Bird Monitoring Symposium

VOLUNTEER

Online
Mar 2023

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

NCF Annual Meet

VOLUNTEER

Mysuru, IN
Oct 2022

- MCd a session of talks

Bird Monitoring Symposium

VOLUNTEER

Online
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

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

Referees

DR ASHWIN VISWANATHAN

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

DR SUHEL QUADER

Scientist, Education and Public Engagement
Nature Conservation Foundation, Mysuru, India
Email: suhelq@ncf-india.org

PRAVEEN J

Scientist, Education and Public Engagement
Nature Conservation Foundation, Mysuru, India
Email: 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
Email: katerinatvardikova@gmail.com

DR PU ANTONY

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Christ University, Bengaluru, India
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