



Harin Aiyanna C R

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ABOUT MYSELF

Wildlife ecologist and remote sensing researcher working on climate-driven habitat models. My background is in Forest sciences with experience in conducting quantitative, qualitative, and mixed-methods research in India, Italy, the Netherlands, South Africa and Poland. Currently pursuing a PhD focused on biodiversity modelling at Wageningen University & Research, the Netherlands. I have experience in research methodologies and disseminating scientific knowledge to diverse audiences on many socio-environmental issues and Contributed a small part to a National Geographic documentary on human-elephant conflict mitigation in India. Passionate about bridging wildlife conservation with data science and remote sensing tools. Alongside research, I enjoy capturing wildlife photographs and rescuing snakes from human-dominated landscapes.

WORK EXPERIENCE

 **WILDLIFE RESEARCH AND CONSERVATION SOCIETY – UTTAR KANNADA, INDIA**

Website www.wrcsindia.org

PROGRAM OFFICER AND RESEARCHER – 05/06/2019 – 06/06/2020

Project Title: Conservation of Asian Elephant through Community Participation in North Kanara Landscape, Karnataka, India.

Responsibilities:

- Being an agile project manager, I helped forge a new chapter for Asian Elephant conservation through community participation.
- Propelling habitat protection, I led a transformative initiative engaging 500 resilient farmers and crafted innovative low-cost crop protection strategies through collaborating with Forest authorities and conducting interstate workshops.
- By combining my expertise with a commitment to conservation, I utilized GIS tools to accurately map important boundaries and improve the corridors for these endangered species.

Accomplishments:

- This project reached its zenith in a remarkable collaboration with National Geographic in the production of a video [documentary](#).
- Successfully carried out numerous operations to safely relocate elephants to prevent conflicts.

EDUCATION AND TRAINING

01/03/2024 – CURRENT Padua, Italy

DOCTORATE OF PHILOSOPHY University of Padua

Website <https://www.tesaf.unipd.it/en/research/doctoral-degrees-phd-lerh-program/teachers-and-students> |

Field of study Remote Sensing, Biodiversity Conservation, Environmental Modelling | **Level in EQF** EQF level 8

01/03/2023 – CURRENT Padua, Italy

INTERNSHIP Department of Land and Agro-Forestry Systems

Project Topic: A Species Distribution Model simulating the potential distribution and predicting range expansion of Eurasian beavers (Castor fiber) in Poland

Key Findings:

- The northward shift of Beaver habitat in Poland mainly due to Climate change and Human Impacts.

- Focused on simulating future climatic projections and anthropological impacts, my work holds the promise of contributing to our understanding of habitat dynamics and the significance of beavers in ecosystem restoration.
- Notably, the abstract of the study was submitted and presented at the prestigious International Conference on Fluvial Sedimentology 2023 at River del Garda.
- Enriching my academic journey, this project to analyze the habitat preference of Eurasian beavers is set to be an upcoming publication.

Website <https://www.tesaf.unipd.it/> | **Field of study** Agriculture, forestry, fisheries and veterinary

27/09/2020 – 19/07/2023 Padua, Italy

MASTERS IN FOREST SCIENCES. University of Padua

1st Specialization in Forest and Land Management.

Core courses: Forest Ecology and Management, Wildlife Conservation and Management, Forest Policy for a Bio-Economy Strategy, Introduction To GIS.

Address Padua, region of Veneto, northern Italy, 35122, Padua, Italy | **Website** <https://www.tesaf.unipd.it/> |

Field of study Forest Sciences | **Final grade** 105/110

28/08/2021 – 30/08/2022 Wageningen, Netherlands

ERASMUS EXCHANGE FOR MASTER'S IN FOREST AND NATURE CONSERVATION Wageningen University and Research

2nd Specialization in Forest and Nature Management

Core courses: Wildlife Management and Conservation, Trends in Nature Conservation, Research Methodologies in Human-Animal Interactions.

Website <https://www.wur.nl/> |

Thesis Effect of forest mosaics, water availability, and landscape fragmentation on the spatial distribution of Human-Elephant Conflict: An exploratory study in the Human-impacted landscapes of Western Ghats, India.

17/03/2019 – 29/05/2019 Bengaluru, India

FIELD EXECUTIVE IN MARKET INTELLIGENCE Ninja Cart

- Visting Commodity Markets across Bangalore City and Surveying.
- Maintaining data record of seasonality and availability of Agricultural commodities.
- Farmers interview on price fluctuations and their inventory management.
- Data Sourcing from various agricultural institutions.

16/08/2015 – 24/05/2019 Bengaluru, India

BACHELORS IN SCIENCE IN AGRICULTURAL MARKETING AND CO-OPERATION. University of Agricultural Sciences

Main Subjects: Agriculture Statistics, Agri-Economics, Apiculture, Entamology, Pathology, Forestry and Environmental Sciences, Agri-Marketing and Cooperation, Market Research, Agricultural Project Analysis, Meteorology, Animal Sciences, Advanced Accounting and Auditing, etc.

Overall GPA/ Percentage: **8.12/10**

Class Obtained: **First Class**

Practical Skills:

- Experiential learning/Hands On Training (**Major**) in Agriculture Market Information, Intelligence and Dissemination, Agriculture Input-Output Management, Agri-Import and Export Management. (**Minor**) in Management of Agro-Based industries.
- Participation in **Industrial visits** conducted by the University and gained practical exposure in production, processing, marketing, import & export units like SAFAL, AMUL Gujarat, NDDDB Gujarat, MYAMUL, Namdhari Fresh, Indo-Spanish Tasty Foods Pvt. Ltd., Camco chocolate factory Pvt. Ltd., Reliance Fresh Fruits & Vegetable Collection Center.
- Sound knowledge and handling skills operate lab as well as farm equipments.

Field of study Agriculture, forestry and fishery

11/12/2018 – 20/12/2018 Bengaluru, India

INTERNSHIP Louis Dreyfus Company India Pvt. limited

Hands on Training Program in Agri Import & Export Management.

- Placement in the Research Platform, as a part of Hands on training in an Export Industry and worked on an assignment on Trade Flow Export Data Analysis on *Microsoft Excel* for year wise data of 7 countries.

27/08/2018 – 29/09/2018 Bengaluru, India

RURAL AWARENESS WORK EXPERIENCE University of Agricultural Sciences

RAWE Program: Practical Extension Work in Rural Villages

- Gained first-hand experience on the farm practices followed by the farmers through one month village stay that helped to understand the socioeconomic conditions of rural community.
- Information Dissemination by conducting PRA and workshops in Villages such as Animal Health Camps, Soil Sampling, Bakery Training, Food Processing and Value Addition programs, etc.
- Provided an opportunity to develop the skill in the transfer of technology by practicing various extension communication methods.
- Preparation and maintaining *Ideal Crop Museum* consisting of 20 improved high breed varieties of Crop Plants.
- Organising an Agriculture Exhibition where nearly One thousand participated.

31/05/2018 – 24/08/2018 Bangalore, India

RURAL INSTITUTIONAL WORK EXPERIENCE PROGRAM University of Agricultural Sciences,

RIWE Program:

- Placement in Agriculture Marketing Institutions
- Placement in Agriculture Financial Institutions.
- Placement in Agriculture Co-operative Institutions.
- Placement in Agri-Business Enterprises

Trained in practical work through placement training which provided greater thrust for working with the institutions that act as link between farmers and the government.

02/01/2018 – 27/05/2018 Bangalore, India

INTERNSHIP Indian Institute Of Sciences

Project Title: **Communication System Of Katydid Species at Center for Ecological Sciences, IISC.**

Duties:

- Collection of Data on the communication behaviour through video recordings and observation.
- Working during night and Handling of Camera in outdoor as well as lab conditions.

My Inquisitiveness to work and gain exposure in a research environment motivated me to assist this study on part time basis, during my bachelors.

Field of study Animal Behavior

02/06/2014 – 29/03/2015 Kodagu, India

PRE-UNIVERSITY COURSE (PUC) Jawhar Navodhya Vidhyalaya, Galibeedu

Main Subjects: Physics, Chemistry, Mathematics, Biology*Languages:* English, Hindi*Overall Percentage:* 82%*Class Obtained:* Distinction

01/06/2012 – 29/03/2013 Kodagu, India

SECONDARY SCHOOL LEAVING CERTIFICATE (SSLC)/ 10TH STANDARD Jawhar Navodhya Vidhyalaya, Galibeedu

Main Subjects: Science, Mathematics, Social-Science*Languages:* English, Hindi, Kannada*Overall GPA:* 9.2%*Class obtained:* Distinction

● PUBLICATIONS

2023

[Using Earth observation to support the predictive accuracy of species distribution models in ecological restoration: a case study of Poland beavers \(*Castor fiber*\)](#)

In this study, we used satellite data and species distribution models to map future habitats for the Eurasian beaver : a keystone species in Poland. By combining remote sensing with climate projections, we identified restoration hotspots

and :movement corridors under multiple future climate scenarios. The goal: A scalable method to guide ecological restoration using real data and predictive modelling.

Cheriyanda Raveendra, Harin Aiyanna and Picco, Lorenzo and Pirotti, Francesco

Authors: Harin Aiyanna | **Journal Name:** The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences | **Volume, Issue and Pages:** XLVIII-3-2024, 2194-9034, 63-70 | **Publisher:** Copernicus GmbH

Link <https://www.isprs.org/default.aspx>

2018

Response Mode Choice in a Multimodally Duetting Paleotropical Pseudophylline Bushcricket.

My contribution to this publication was through field data collection and first-hand observation conducted in diverse environment.

Kaveri Rajaraman, Aswathy Nair, Anjana Dey, Rohini Balakrishnan

● **PROJECTS**

01/10/2021 – 01/02/2022
WWF-INNO Student Challenge

As the project leader, we (a team of 5) conceptualized an innovative board game encourage conservation-conscious practices in daily life in youth through interactive channels.

11/11/2017 – 30/11/2017
All India Tour

As the class representative, I actively planned and executed the 'All India trip' for a batch of 60 students.

01/10/2024 – 16/10/2024
Elephant Research Program

As an elephant research volunteer, I helped Bring The Elephant Home and Kariega Game Reserve with an exciting research project focused on range expansion and elephant well-being in South Africa. With the recent removal of internal fences, I had the unique opportunity to study its impact on the elephants. I worked with collared elephants, tracking their movement and assisting in monitoring their behavior both before and after the fence removal. I actively participated in elephant identification, behavior monitoring, and dung sample collection to assess stress levels. Alongside Kariega’s dedicated ecologists and rangers, I collaborated with two elephant researchers from Bring The Elephant Home.

With the collected telemetry data, I am currently working on habitat suitability mapping for elephants based on the climatic projections and their seasonal movements.

● **LANGUAGE SKILLS**

Mother tongue(s): **KODAVA THAK**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	B2
ITALIAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● **JOB-RELATED SKILLS**

Job-related skills

- Mentoring skills developed through imparting training on Animal Health Camp, Bakery Training Program, Food Processing and Value Addition as well as through conducting Agricultural exhibition during RAWES program.
- Effective utilization of my learning and abilities to achieve a role that creates value for the organization that I work for, thereby build my career while focusing on meeting the organizational goals and my career aspirations.
- Good command of control process, ability to address and coordinate with people by working as a Program Officer for WRCS.
- Having a valid driver's license and the ability to drive all kinds of vehicles extends my flexibility in working in any dynamic environment.

● **ORGANISATIONAL SKILLS**

Organisational skills

- Leadership skills developed during my schooling and college tenure by being the class representative.
- Being a member of Eco-club as well as an NSS volunteer for 2 years during my undergraduate studies, gave me the opportunity to organize events and activities such Capacity building, Awareness on Rural Sanitation and Personality Development programs for Rural people.
- Teamwork Spirit and ability to organize and manage groups gained as the top player of the college *football* team.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

- Good communication skill developed with Numerous presentations, workshops, seminars, guest lectures and data collection works during my undergraduate program, upped my speaking and presenting skills.