

PRIYA RANGANATHAN

PHD CANDIDATE, ASHOKA TRUST FOR RESEARCH IN ECOLOGY AND THE ENVIRONMENT (ATREE)

I am a doctoral student designing a project to understand the ecohydrology and ecosystem services of Myristica swamps, a forested wetland of the Western Ghats of India. My interests lie in wildlife ecology, wetland ecology, urban ecology, and science communication



+91 9108034580



P.O. Royal Enclave, Srirampura, Jakkur, Bengaluru, KA 560064



priya.ranganathan@atree.org



WORK EXPERIENCE

PhD Student

Ashoka Trust for Research in Ecology and the Environment • Aug 2021 - present

- Enrolled in the ATREE Academy for Conservation Science and Sustainability Studies
- Tentative thesis title: Assessing the Ecohydrological Characteristics and Ecosystem Services of Freshwater Swamp Forests in the Central Western Ghats
- Guides: Dr. Jagdish Krishnaswamy (IIHS, ATREE), Dr. G. Ravikanth (ATREE)
- Prakriti Research Fellow 2022

Project Coordinator

HCL Harit Lake Restoration Project • Feb 2022 - Sep 2022

- Managed a, CSR-funded project to conduct a baseline assessment of Hennagara Lake in Anekal taluk, Bengaluru as a prelude to a long-term restoration of the same lake
- Conducted sampling of water quality, hydrology, and ecosystem services at the lake along with the research team
- Wrote grant reports and a final project report at the end of the project duration
- Managed stakeholder workshops and coordinated field efforts.

Writing Mentor

Scholastic India Young Writers' Academy • Aug 2021 - present

 Mentors high school students across India in 10-day workshop series on elements of story writing and storytelling, culminating in a published anthology of short stories by the students with a mentor's note

Founder, Co-Editor

Youth For Nature Magazine • Jun 2020 - present

- Youth For Nature is a free, digital kids magazine that aims to bring stories of India's natural landscapes, wildlife, and conservation heroes to the doorsteps of children around the world and especially across India
- Founded in 2020 June
- Currently managing a 5 person team of volunteers
- Publishes quarterly issues

Bharatanatyam Instructor

Nandanik Dance Academy. • Mar 2020 - Jul 2021

 Choreographed and taught Bharatanatyam and folk dance routines to students of the dance academy

Freelance Researcher

with Nirupa Rao, National Geographic Explorer • Jun 2020 - Sep 2022

 Authored Works: Geological History of Myristica Swamps, Retracing the Past, Culture and Conservation in Myristica Swamps, Ecosystem Services of Swamp Forests

Research Associate

Ashoka Trust for Research in Ecology and the Environment • Jan 2019 - Feb 2020

- P.I.: Dr. Jagdish Krishnaswamy
- Gandak Conservation Project (CHANSE)Assessing habitat suitability for the gharial
 (Gavialis gangeticus) and the Ganges River
 Dolphin in the Gandak River of the Ganges
 River Basin and creating a river routing model
 to simulate flows in the Gandak River given
 different conditions upstream
- Peer-reviewed publication on status and conservation of Myristica swamps of the Western Ghats

Research Consultant

Centre for Wildlife Studies • Nov 2017 - Dec 2018

- Co-author of peer-reviewed pubication
- Assessed human-wildlife interactions in a unique settlement straddling two premier tiger reserves in South India
- Used statistical analysis and field surveys to suggest local management strategies for officials to use when handling human-wildlife conflict in this settlement, given tribal rights and longstanding documents giving land use rights to this community despite forest protections by the government.
- Wrote grants for the research organization
- Helped design and pilot a conservation education programme (Wild Shaale) in schools around Nagarahole and Bandipur Tiger Reserves, KA

Project Intern

WWF-India • May 2016 - Dec 2016

- Duties: monitoring tiger dispersal using camera trapping, range mapping, and pugmark identification; GIS mapping of wildlife corridors and land use change; managing a field team while conducting a research project
- Project: "Assessing Land Use Change and Wildlife Presence in the Banas-Sewti-Chambal Habitat Block, Ranthambhore Tiger Reserve"

EDUCATION BACKGROUND

Duke University

Nicholas School of the Environment, Class of 2017

- Specialized in Ecosystem Science and Conservation
- Teaching Assistant for graduate and undergraduate courses
- Treasurer of Student Association of Geospatial Analysts
- International Representative of Duke Conservation Society

University of Pittsburgh

Dept. of Geology, Class of 2015

- · Graduated with honors
- President of the university's Model United Nations team
- Dual major in B.A. Environmental Science and B.S. Biology
- Minor in Chemistry
- Certificates in Geospatial Analysis and South Asian Studies
- Study abroad in Mussoorie, India (2014 Summer) to study Indian geology, globalization, and human security

SKILLS

Languages

Hindi (fluent), English (fluent), Marathi (proficient), Tamil (intermediate), Kannada (intermediate)

Field Techniques

camera trapping, bird point count, mist netting, radio- collaring, mark-recapture, water quality assessment tests, pugmark identification, line transects, wetland field skills, soil surveying, hydrology measurements, forest measurements, geological surveys, diet analysis utilizing scat assessment, pitfall traps, snake handling

Analytic & Written Skills

remote sensing (QGIS, ENVI, Google Earth Engine), geospatial analysis (ArcGIS, QGIS), scientific writing, statistical analysis (R, STATA, PAST, Microsoft Excel), popular science writing

ACCOMPLISHMENTS

- Awarded the Prakriti Research Fellowship 2022 to study the socio-economical relationships of local communities to swamp forests in Karnataka
- Interviewed by five news sources about my research
- Published 50 popular science articles in Indian news media since 2017
- Won the M. Krishnan Nature Writing Memorial Award 2023
- Earned my Senior Diploma in Bharatanatyam from the Hindustan Arts and Music Society, Kolkata in 2021
- Received an Honourable Mention in the Tom Howard/John H. Reid Fiction & Essay Contest 2021
- Received a Commendable Mention in the M. Krishnan Nature Writing Memorial Award 2021

ACTIVITIES & HONORS

- Founder & Co-Editor, Youth for Nature Magazine
- Editor, ATREE Young Researchers' Network (AYRN)
- Writing Mentor, Scholastic-India's Young Writers Academy
- Nature Writing Instructor, Storytrails Inc, Chennai
- Nature Writing Instructor, Logicology, Nagpur, MH
- Guest Lecturer, NCBS (Freshwater Ecology course)
- Participated in certificate courses from Nature Conservation Foundation, Bangalore
- Teaching Assistant, Duke University
- Teaching Assistant, University of Pittsburgh
- President, Model United Nations, University of Pittsburgh, PA, USA

PUBLICATIONS

Scientific Papers:

- Ranganathan, P., Ravikanth, G., & Aravind, N. A. (2021). A review of research and conservation of Myristica swamps, a threatened freshwater swamp of the Western Ghats, India. Wetlands Ecology and Management, 1-19.
- Karanth, K.K. & Ranganathan, P. (2018).
 Assessing human-wildlife interactions in a forest settlement in Sathyamangalam and Mudumalai Tiger Reserves. Tropical Conservation Science, 11, 1940082918802758.
- Ranganathan, P. (2017). The Effects of Land Use Change on Sympatric Carnivore Use of Wildlife Corridors in Ranthambhore Tiger Reserve, Rajasthan – M.Sc. Thesis, Nicholas School of the Environment, Duke University

Popular Science Publications:

- Feb. 14, 2023 Biodiversity Hotspot: Walking Through Kalakad-Mundanthurai Tiger Reserve
- Feb. 1, 2023 Sighting the Singalika (JLR Explore)
- Dec. 29, 2022 Mass Flowering and Why Some Plants Bloom and Die Together (Mongabay India)
- Jul. 15, 2022 The Thar Needs Restoration, and Greening is not the Solution (Hindustan Times)
- May 8, 2022 Celebration of Intricacy (Deccan Herald)
- Dec. 2021 An Unusual Friendship (Current Conservation)
- **Sep. 2021** The Terrific Triumvirate: Pawprints at Khandar Fort (Saevus Magazine)
- Jun. 2021 Parched (The Bangalore Review)
- Jun. 10, 2021 Nilgiri Tahr: Living on the Edge (Deccan Herald)
- May 15, 2021 The Many Moods of the River Kabini (JLR Explore)
- Apr. 10, 2021 Meeting the Marten (Saevus Blog)
- Apr. 07, 2021 Spotting the Whistling Hunter (Deccan Herald)
- Feb. 02, 2021 Restoring Urban Wetlands for a Brighter Future (Mongabay India)
- Dec. 03, 2020 Dancing Towards Extinction: The Sangai and its Marsh Habitat (Jalaplavit magazine)

- Dec. 01, 2020 Bandits, Badlands, and Biodiversity (Sanctuary Asia)
- Nov. 13, 2020 Ranganathittu: The Kaveri's Quiet Jewel (Current Conservation)
- Oct. 23, 2020 Protecting Karnataka's Myristica swamps key to survival of rare liontailed macaque (The News Minute)
- Oct. 15, 2020 How the worship of sacred freshwater swamps is helping preserve biodiversity in the Western Ghats (Scroll India)
- Jul. 29, 2020 Notes From a Field Ecologist (Conservation Optimism)
- Jul. 27, 2020 The Ethics of Using Drones in Wildlife Conservation and Monitoring (Conservation India) - co-authored with Arjun Kannan and Sminu T.V.
- Jul. 01, 2020 Biodiversity in Myristica Swamps (Jalaplavit magazine)
- Jun. 28, 2020 Reverse Zoonosis: When Humans Pass Diseases on to Animals (The Wire Science) - co-authored with Nobin R.M.
- Jun. 11, 2020 Near the Baghjan Blowout, Assam's Critical Wetland Habitat is Burning (The Wire Science)
- Jun. 2, 2020 Locusts Swarms in India: Millimeters in Size yet Millions in Number (Mongabay India)
- May 31, 2020 Saving Vultures (Conservation India)
- May 28, 2020 Amphan in the Sundarbans: How mangroves protect coasts from tropical storms (The Wire Science)
- Apr. 4, 2020 Desert Carnival: Experiencing Rajasthan's Annual Pushkar Fair (AYRN Blog)
- Feb. 8, 2020 Rooting for RAMSAR Wetlands (Deccan Herald)
- Feb. 5, 2020 Why Adding More RAMSAR Wetlands is Beneficial to a Growing India (Conservation India)
- Dec. 14, 2019 India's Disappearing Grasslands (Deccan Herald)
- Oct. 26, 2019 One Last Dance: The Fate of Manipur's Dancing Deer (Conservation India)
- Oct. 26, 2019 Who will save the swamps? (Deccan Herald)
- Oct. 11, 2019 Gandikota (travel guide) (Nature in Focus)
- Jul. 3, 2019 Caging the Wild: Maharashtra Government Approves Building of Zoo in Aarey Milk Colony Forest Land (Conservation India)

- Jun. 24, 2019 Habitat loss and poaching threaten the survival of the elusive Nilgiri langur (The News Minute)
- Jun. 1, 2019 Monsoon Mountains: Field Notes from the Nilgiri Hills (Saevus Magazine)
- May 21, 2019 To Skin a Cat: An Amateur Biologist's First Autopsy (Wildlife Conservation Society-India Blog)
- May 9, 2019 All for the perfect tiger shot: Unregulated tourism and its effects on wildlife (The News Minute)
- Mar. 26, 2019 Life in the Hills: Anecdotes from the Garhwal Himalayas (Saevus Magazine)
- Feb. 9, 2019 A Bullet to the Lungs: Mumbai Set to Lose More Forest to High-Speed Railway Line (Conservation India)
- Feb. 6, 2019 Ghosts of the Chambal (Wild Canids Blog)

Writing for Children:

2022:

- · A Scientist, a Seed, and a Story of Survival
- Why Do We Journal About Nature?
- On a Nature Trail!
- Snakes of Sea and Sky
- The Secret Life of Coral
- Spotting a Mermaid
- · Birding in the Big City
- Forest of the Gods
- Monkey See, Monkey Do!

2021:

- · Dawn of the Panther
- Passage to Safety
- Wild Ungulates of the Himalayas
- Rivers of Ice
- Can You Find These Birds in Your City?
- Mumbai Saves its Green Lungs!
- Reviving a River
- Walking with the Caretakers of the Forests
- The Stork Sister
- How India Came to Be: A Journey Through Time

2020:

- How to Become a Backyard Ecologist
- The Unicorns of Kaziranga
- Cavorting with Civets
- Living with Wildlife: Coexistence or Conflict?
- Leopards in My City

CERTIFICATIONS

- Nature Writing for Children (2022)
- Stakeholder Engagement (2020)
- Species Distribution Modelling (2019)
- Geospatial Analysis (2015)
- South Asian Studies (2015)

REFERENCES

Dr. Jagdish Krishnaswamy

- Dean, School of Environment and Sustainability, Indian Institute for Human Settlements (IIHS)
- Adjunct Senior Faculty, ATREE
- Email: jkrishnaswamy@iihs.ac.in

Dr. G. Ravikanth

- · Senior Fellow, ATREE
- Email: gravikanth@atree.org
- Ph. 091-080-23635555 (110)

Dr. Krithi K. Karanth

- Chief Conservation Scientist & Director, Centre for Wildlife Studies (CWS)
- Email: krithi.karanth@cwsindia.org

Dr. Dean Urban

- Professor of Landscape Ecology, Nicholas School of the Environment, Duke University
- Email: deanu@duke.edu