

## Contact

224, Rajanigandha, garden  
apartments, 21st Vittal Mallya road,  
Bangalore, 560001  
7795562825` (Home)  
chandanpandey0404@gmail.com

[www.linkedin.com/in/ckp1990](http://www.linkedin.com/in/ckp1990)  
(LinkedIn)

## Top Skills

Research and Development (R&D)  
Ecological Research  
Field Biology

## Certifications

GIS Data Formats, Design and  
Quality  
Fundamentals of GIS  
Overview of Geocomputation and  
Geo-web services  
Data Visualization  
The Data Scientist's Toolbox

## Honors-Awards

Annual talk-2017, Best poster award  
British ecological Society Training  
and travel grant  
KaggleX BIPOC Mentorship Award

## Publications

Understanding the variation in wood  
densities of trees and its implications  
for carbon assessments

# chandan Kumar pandey

Ecologist and Data Scientist  
Bengaluru, Karnataka, India

## Summary

Greetings! I'm Chandan Kumar Pandey, and I'm currently embarking on an exciting academic journey that revolves around unravelling the mysteries of ecology and research. As a Doctoral student under the esteemed mentorship of Dr N Samba Kumar, a prominent figure in the realm of population ecology (you can explore his work on ResearchGate), I'm passionately exploring the intricacies of our natural world.

My primary focus lies at the crossroads of population ecology, hierarchical modelling, and the captivating domain of large mammal ecology. Through meticulous research and dedicated exploration, I strive to shed light on the fascinating interplay between different species and their environments.

However, my curiosity doesn't stop there. I am also deeply fascinated by the potential of Machine Learning and Artificial Intelligence in deciphering the complex patterns that govern species populations and their determinants. I believe that these cutting-edge technologies can offer us fresh perspectives and deeper insights into the natural world, enhancing our ability to conserve and protect it.

Beyond the confines of academia, I am an ardent nature enthusiast. Whether I'm treading through dense forests, observing wildlife in its natural habitat, or simply soaking in the breathtaking beauty of untouched landscapes, nature never ceases to amaze me. These firsthand experiences not only enrich my research but also fuel my commitment to preserving the environment for generations to come.

For a more in-depth look at my academic endeavours and personal reflections, feel free to connect with me on LinkedIn. Let's join forces in our shared quest to decode the intricate tapestry of our planet's ecosystems, driven by a blend of ecological curiosity and technological innovation.

Thank you for accompanying me on this remarkable expedition of knowledge and discovery.

Warm regards,

Chandan Kumar Pandey

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## Experience

### Centre for Wildlife Studies

6 years 10 months

#### Doctoral Fellow

July 2022 - Present (3 years 5 months)

Bengaluru, Karnataka, India

#### Research Assistant : Analysis and Programming

February 2019 - July 2022 (3 years 6 months)

Bengaluru Area, India

- Oversee the database development to store camera trap images, line transect, and other long-term monitoring projects using SQL for ease and automatic retrieval for analysis.
- Written codes snippets in R and Python to automatically retrieves the data from the database in the format required by the statistical models for analysis, cutting time by 90 percent.
- Develop statistical models to estimate the population of wildlife from camera trap images and line transect data.
- Implementation of the model in cloud-computational cluster provided by the National Centre for Biological Sciences using script languages, reducing the analysis time by 99 percent.
- Interpretation of results from the statistical model and preparation of manuscript drafts for publishing in peer-reviewed journals.
- Leading the machine learning project in collaboration with Prof: Kartic Subr from the University of Edinburgh to automate the classification of individuals felines using a Deep learning algorithm (Alexnet and WSDDN).
- Supervision in general management of official data and preservation of old documents, data, and knowledge management.
- Assisting Dr. K Ullas Karanth (Managing Trustee, Centre for WildlifeStudies) in the development and execution of research activities

Adavi Trust.

### Research Associate

March 2019 - January 2020 (11 months)

Chennekothapalli Village, Anantapur District, Andhra Pradesh

Providing research consultancy in designing of question and application in the line of conservation work carried out by Timbuktu collective.

### Self-employed

#### Researcher

August 2018 - January 2019 (6 months)

Bengaluru Area, India

During this period I worked as Freelance assistant to various laboratories and research scholar for the data analysis and experimental design. I have used different statistical tools and package in R as well as Python to provide such assistant in analysis of data.

### Centre for Ecological Sciences, Indian Institue of Sciences

#### Research Assistant

June 2018 - August 2018 (3 months)

Bangalore, Karnataka, India

- Data Analysis to understand the effects of biotic and abiotic factors in the transmission of Leucocytozoon in Birds species of Himalaya.
- Development of a Generalized linear mixed effect model for the analysis of prevalence and intensity of parasites.
- Using the Bayesian model to build a Phylogeny Tree of parasite species.
- Automate the data mining for extracting the Genetic data from web-source to build the avian Phylogeny, reducing the effort by a factor of 10.
- Assisting Dr. Farah Istaq in the development and execution of research activities

### Tata Institute of Fundamental Research

#### Junior Research Scholar

August 2013 - May 2018 (4 years 10 months)

Bengaluru Area, India

As a researcher, I work with different faculty at the National Centre for Biological Sciences, TIFR. I completed projects where I designed and executed the project from the starch—spearheading the collaboration for accessing the data and conducting joint work among various educational institutes.

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## Education

Tata Institute of Fundamental Research, Mumbai  
Master's degree ( M.Sc in biology by research), Ecology · (2013 - 2016)

Sri Jayachamarajendra College of Engg., MYSORE  
Bachelor's degree, Biotechnology · (2009 - 2013)

Manipal Institute of Technology  
Doctor of Philosophy - PhD, Ecology, Evolution, Systematics, and Population  
Biology · (June 2023)