

ANUSHA CHAUDHARY

RESEARCHER

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AREAS OF INTEREST

Epidemiology

Disease ecology

Public health

Impact of agriculture on landscape

Forest management and conservation

SKILLS

Software

MS Office, Google Earth, Google Earth Engine, ArcGIS, QGIS, PAST, TERRSET (IDRISI), STELLA, SPSS, ENVI, ERDAS Imagine, R Studio

Web Design & Programming

HTML, CSS, JavaScript

Lab & Field techniques

Water and soil sample analysis, Quadrat sampling and line transects, Plant taxonomy, DNA isolation, PCR

LANGUAGES

English
Hindi
Spanish

EDUCATION

Master of Science, Biodiversity & Conservation (2018)

University School of Environment Management, Guru Gobind Singh Indraprastha University, Delhi

Bachelor of Science, Microbiology (2016)

Bhaskaracharya College of Applied Sciences University of Delhi, Delhi

WORK EXPERIENCE

RESEARCH ASSOCIATE (2021 - 2022)

IORA Ecological Solutions Pvt. Ltd., New Delhi, India

- Satellite Data Collection
- Database Management.
- Planning and implementation of field data collection.
- GeoData correction and conversion.
- Landuse Landcover preparation and analysis.
- Environmental impact assessment and audits.

JUNIOR RESEARCH FELLOW (2020- 2021)

Centre for Wildlife Studies, Bengaluru, India

- Mapping of settlements around protected areas using machine learning algorithms on **Google Earth Engine**.
- Grant Management and fundraising.
- Scientific Blog Writing and Communications Editor
- Managing and updating the organization's website.

RESEARCH ASSISTANT (2018- 2020)

Ashoka Trust for Research in the Ecology and Environment, Bengaluru, India

- Assessment and analysis of forest cover depletion over the time period of 30 years in the Western Ghats vis a vis spread of the Monkey Fever (Kyasannur Forest Disease).
- Visited and worked at **Centre for Ecology and Hydrology, Wallingford, United Kingdom** under ATREE-CEH Exchange program to develop the methodology for studying the forest cover changes using remote sensing and GIS tools.
- Studied the impact of social factors driving the changes in forest cover of KFD affected districts in the Western Ghats.
- Designed javascript algorithm for classification using Support Vector Machine.

INTERN (January 2018 - July 2018)

Ashoka Trust for Research in Ecology and the Environment, Bengaluru, India

- Time series (1990 - 2018) analysis of Land Use and Land Cover changes with the help of Google Earth Engine using JavaScript API.
- The study revealed that there has been a decrease in the forest cover, along with an increase in agriculture, plantations and built-up area causing forest fragmentation and patchiness of landscape..

REFERENCES

Dr. Abi Tamim Vanak

(Senior Fellow)
Ashoka Trust for Research in Ecology and the Environment (ATREE) Bangalore - 560064, India
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Ext. 213

Prof. Rita Singh

(Dean)
University School of Environment Management,
Guru Gobind Singh Indraprastha University, Dwarka Sector 16C, New Delhi, India - 110078
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Dr. Bethan V. Purse

(Ecologist)
Centre for Ecology & Hydrology
Wallingford, Oxon, OX108BB, United Kingdom
Email: beth@ceh.ac.uk
Tel: (+44) 0 1491 692429

INTERN (June 2017 - July 2017)

IGCMC, WWF- India, New Delhi, India

Assessed and updated the current waterbodies status in Kanha Tiger Reserve which highlighted the presence of water bodies was more around agricultural areas rather than the forested areas which are artificially maintained for commercial fishing and some are dependent on annual rainfall

STUDENT INVESTIGATOR (2014- 2015)

Innovation Project by University of Delhi, India

"Screening and Enrichment of Polymer degrading Microbes and their application in Environmental Engineering"

- Authored a paper on this research which describes the abilities of various microorganisms like *Bacillus* sp. *Staphylococcus* sp., etc. which can deteriorate polymers like PVC, Polyethylene, etc. in few months by using different methods.

CONFERENCES

- Conference on the IPCC Special Report on 1.5°C organised by TERI University, New Delhi.
- Global Wildlife Programme Conference 2017 organised by MoEFC, Delhi.
- Student Conference on Conservation Sciences (SCCS) 2017 organised by IISc, Bengaluru.
- World Environment Conference organised by National Green Tribunal, Delhi.
- National conference on Climate Change Resource Conservation and Sustainability Strategies (CCRCASS -2017) organised by USEM, GGSIPU.
- International Conference on Urban Geoinformatics organised by TERI University, Delhi.
- Symposium on Proteomics organised by Department of Biochemistry, Sri Venkateshwara College, University of Delhi
- National Symposium on Nanobiotechnology organised by Department of Biotechnology, TERI University, Delhi.

WORKSHOPS

Certificate course on Systems Thinking and Modelling for Sustainability Research at ATREE, Bengaluru

- Learnt about uses of Stella Architect for designing models

Workshop on Google Earth Engine at Google India, Bengaluru

- Learnt about applications of Google Earth Engine in Remote Sensing and GIS

ARTICLES AND MORE

Encapsulated Himalayan ecosystem and traditional knowledge: Jeopardized by tourism

Finding a balance between biodiversity and the political economy of coffee farms in Karnataka

Impacts of hunting on Indian wildlife

Understanding local hunting: insights from Kudremukha and Nagarahole national parks

Stories from the field: Maṅgana kāyile sanśōdhane

Beyond COVID-19: Understanding One Health in India (Webinar)