

Pragya Das

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[Personal Website](#)

EDUCATION

Master of Science

Oct 2021 - Sept 2023

Disaster Management and Environmental Impact (DAMAGE)
IMT Mines Ales, France (ECTS: 17.04/20.00)M1

Master of Technology (Gold Medalist)

July 2015 - May 2017

Remote Sensing

Banasthali University, Rajasthan, India (Percentage: 80.47/100.00),

Thesis: Hydrological Modeling of Trends in Seasonal Water Balance Components at River Basin Scale Using Time Series Land Use/Land Cover Data

Supervisor: Dr. P.V. Raju, (Scientist 'F', HOD Water Resource Division, National Remote Sensing Center, Hyderabad, India)

Bachelor of Engineering (Hons.)

July 2010 - 2014

Civil Engineering

Chhattisgarh Swami Vivekanand Technical University, Bhilai, India (Percentage: 78.78/100.00),

Thesis: Comparative Study of Normal Concrete and Concrete prepared by addition of Agriculture By-product

Supervisor: Ashay D Shende, (Asst. Professor, KDK College, Nagpur, MH, India).

AREA OF INTEREST

Risk Analysis/Management related to Climate and Industrial based disastrous event, Environmental Health and Safety, Disaster Mitigation and management, Environment Conservation and Natural Resource Management using Image and Data Processing, Image Analysis, Map Production, Change Detection with and without models.

PUBLICATIONS

S.K. Chandniha, M. Arora, L. Pal, A. Kumar, **P. Das**, G.K. Das; "Chapter 23 "Advances in Hydrology and Climate Change: Historical Trends and New Approaches in Water Resources Management". Projection of future precipitation over Gangotri glacier at Himalayan belt using CMIP5 Climate Model : 2021" *Taylor Francis Group* 2021; Pages (14): eBook :ISBN 9781003282365.

Pragya Das, P.V. Raju, Chilka Sharma; "Hydrological Modelling of Mahanadi Basin and their tributary exist in Chhattisgarh and part of Odisha: 2018." *National Seminar-Sustainable Rice production Technology for Increasing the farmer's income* (Jan-2018, Chhattisgarh, India)

Pragya Das, Bhupali Deshpande.; "Green Building- Need of Present Era." *24th QUARK-2013* (2013, Nagpur, India)

TEACHING EXPERIENCE

- Taught *Basic Construction and Cost Estimation*, B.tech, Agricultural Engineering, year III, IGKV, Chhattisgarh, India July-Aug2021,
- Taught *Fluid Mechanics and Open Channel Hydraulics*, B.tech, Agricultural Engineering, year III, IGKV, Chhattisgarh, India July-Aug 2021,
- Taught *Theory of Structures*, B.tech, Agricultural Engineering, year II, IGKV, Chhattisgarh, India Mar-Jun 2021,
- Taught *Soil Mechanics*, B.tech, Agricultural Engineering, year II, IGKV, Chhattisgarh, India Mar-Jun 2021,
- Taught *Fluid Mechanics*, B.tech, Food Technology, year II, IGKV, Chhattisgarh, India Mar-Jun 2021,
- Taught *Theory of Structures*, B.E, Rungta Engineering College, CSVTU, Chhattisgarh, India Jan-June 2015,
- Taught *Civil Engineering Drawing*, B.E, Rungta Engineering College, CSVTU, Chhattisgarh, India Sept-Dec 2014,

WORK EXPERIENCE

- Masters Summer Internship:[Hotspot Modeling Of Malaria in Nigeria](#) IMT MINES Research Center, Ales, France. June-2022
- Part Time Teacher at IGKV, Chhattisgarh, India. 2021
- Worked as a [Freelance Image Analyst](#) at Centre for GIS Technology, Raipur, Chhattisgarh, India. Worked on aspects related to satellite image processing, developing datasets, preparing input and map layers based on remote sensing and GIS softwares. 2017-2021
- Masters Thesis:[Hydrological Modeling of Trends in Seasonal Water Balance Components at River Basin Scale Using Time Series Land Use/Land Cover Data](#). at NRSC, ISRO, Hyderabad, Telangana, India 2016-2017 To prepare datasets for the VIC model using MODIS data and to compute and compare the variation in water balancing components at river basin scale for predicting the LULC change and to generate the required accuracy of the model. 2016-2017
- Lecturer at REC, CSVTU, Chhattisgarh, India. 2014-2015
- Bachelor's Thesis:[Comparative Study of Normal Concrete and Concrete prepared by addition of Agriculture Byproduct](#). This project focuses on recycling agriculture residue by combining it with concrete and comparing its strength with normal concrete. 2014
- Undergraduate Vocational Internship at Government Medical College, Public Work Department, Raipur, Chhattisgarh, India. I learned about construction methodology for hospital building of G+6 floors and for the Radiotherapy building. May-June 2013
- Undergraduate Summer Internship at Water Resource Division, Rajnandgaon, Chhattisgarh, India. Under the supervision of field irrigation engineers I was able to identify various irrigation networks and their importance. Also saw the construction work one of the major canal links being constructed for diverting overflow of water during heavy rains. June 2012

TRAININGS/ WORKSHOPS/COURSES

INTERNATIONAL TRAININGS

NASA ARSET, USA

-Selecting Climate Change Projection Sets for Mitigation, Adaptation and Risk Management Applications.(Evaluation Awaited)	Sept 2022
-Monitoring and Modeling Floods using Earth Observations.(Evaluation Awaited)	Sept 2022
-Evaluating Ecosystem Services with Remote Sensing.(Evaluation Awaited)	Aug 2022
-Satellite Remote Sensing for Measuring Urban Heat Islands and Constructing Heat Vulnerability Indices,	Aug 2022
-Monitoring Coastal and Estuarine Water Quality Using Remote Sensing and In Situ, N	Nov-Dec 2021
-Agricultural Crop Classification with Synthetic Aperture Radar and Optical Remote Sensing	Oct 2021
-Satellite Observations for Analyzing Natural Hazards on Small Island Nations	Aug 2021
-Hyperspectral Data for Land and Coastal Systems	Jan-Feb 2021
-Mapping and Monitoring Lakes and Reservoirs with Satellite Observations, NA	Jan-Feb 2021
-Remote Sensing of Coastal Ecosystems	Aug-Sept 2020

NATIONAL TRAININGS

-Digital Cartography Evolution of Location Intelligence,Geo-spatial Awareness Hub,India.	July 2020
-Remote Sensing and Imagery Solutions for Academia, CISCO and ARC-INDIA,IndiaCISCO and ARC-INDIA,India.	June 2020
-Remote Sensing in crop Monitoring and assessment, Indian Institute of Remote Sensing - (IIRS), Dehradun, India.	May-June 2020
-Impact of Climate Change on Water Resources,Central Ground Water Board-Raipur(C.G.),India.	Dec 2019
-Geospatial Technologies for Urban Planning,Indian Institute of Remote Sensing - (IIRS), Dehradun,India.	Feb-March-2016
-AUTOCAD,Raipur (C.G.),India.	May-June 2012

COURSES

-Nature-based Solutions for Disaster and Climate Resilience,UN Environment Programme CertificateedX MOOC Course	Aug-Sept 2022
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ACHIEVEMENTS

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| - Gold Medalist in M.Tech (Remote Sensing) ,Banasthali Vidyapith, Rajasthan, India. | 2018 |
| - Academic Excellence Medal in Bachelor of Engineering , RCET, CSVTU, Chhattisgarh, India. | 2014 |
| - Certificate of Merit in Bachelor of Engineering , RCET, CSVTU, Chhattisgarh, India. | 2013 |

PERSONAL INFORMATION

Date of Birth	JUNE 05, 1993
Nationality	Indian
Marital status	Unmarried.
Languages known	(Proficient) English, Hindi and (Begginer) French, German.
Activities	Reading,Calligraphy, Poetry and Exploring places.