

# CHANDRASHEKHAR AZAD VISHWAKARMA

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**Objective:** To enhance my knowledge, technical skills, and capabilities and constantly acquire new skill sets to contribute in the field of science

## || Education ||

- **Post Graduate Certificate in Geoinformatics (PGCGI)** from India Gandhi National Open University (IGNOU), New Delhi in December 2019
- **PhD awarded** on 03 May 2019 from School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India under the supervision of Prof. S. Mukherjee (Topic: Assessment of Geogenic and Anthropogenic influences on Groundwater in part of South Sikkim using geospatial technique).
- **M.Sc. (Environmental Science)** from Banaras Hindu University, Varanasi in 2012.
- **B.Sc. (Biotechnology, Chemistry)** from Jagatpur PG College (V.B.S. Purwanchal University, Jaunpur), in 2008.
- **Senior secondary (SSC)** from SBUIC, Sewapuri, Varanasi, UP Board in 2005.
- **Higher secondary (HSC)** from SBUIC, Sewapuri, Varanasi, UP Board in 2003.

## || Work Experience ||

### TERI School of Advanced Studies

At present, working as Research Associate-II on a project related to Himalayan water crisis.

### Zakir Husain Delhi College, University of Delhi

Taught as Assistant Professor (Guest faculty Environmental Science).

### M.Sc. Dissertation (Banaras Hindu University)

Land degradation assessment using geospatial techniques in a part of Rihand Dam Environment.

### Indian Institute of Petroleum, Dehradun

Worked as Project Assistant (level-I) from 06.07.2009 to 30.11.2009.

## || Publications ||

- **Vishwakarma, C.A.,** Rena, V., Singh, D., "Exploration of water resources using Remote Sensing and Geographic Information System" In Madhav, S., Singh, P., Groundwater Geochemistry: Pollution and Remediation Methods. John Wiley & Sons, (2021).
- Asthana H., **Vishwakarma C.A.,** Singh P., Kumar P., Rena V., & Mukherjee S. (2020). Comparative analysis of Pixel and Object Based Classification Approach for Rapid Landslide Delineation with the Aid of Open Source Tools in Garhwal Himalaya. Journal Geological Society of India, Vol.96, July 2020, pp.3-104. DOI: 10.1007/s12594-020-1505-1
- **Reviewed the paper** on 18 November 2019: Vishwakarma, A. K., Behera, T., Rai, R., Sonkar, A. K., Singh, A. P., & Shrivastva, B. K. (2020). Impact assessment of coal mining induced subsidence on native soil of South Eastern Coal Fields: India. *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*, 6(1), 1-21
- Farswan S., **Vishwakarma C.A.,** Mina U., Kumar V. & Mukherjee S. (2019). Assessment of rainwater harvesting sites in a part of North-West Delhi, India using geomatics tools. Environmental Earth Sciences, (2019) 78:329. DOI 10.1007/s12665-019-8332-y
- **Vishwakarma C.A.,** Sen R., Singh N., Singh P., Rena V., Rina K. & Mukherjee S. (2018). Geochemical Characterization and Controlling Factors of Chemical Composition of Spring Water in a Part of Eastern Himalaya. Journal Geological Society of India, Vol.92, December 2018, pp.753-763

- Kumari R., Datta P. S., Rao M. S., Mukherjee S., & **Azad C.** (2018). Anthropogenic perturbations induced groundwater vulnerability to pollution in the industrial Faridabad District, Haryana, India. *Environmental Earth Sciences*, 77(5), 187. DOI 10.1007/s12665-018-7368-8.
- Sheikh M. A., **Azad C.**, Mukherjee S., & Rina K. (2017). An assessment of groundwater salinization in Haryana state in India using hydrochemical tools in association with GIS. *Environmental Earth Sciences*, 76(13), 465. DOI 10.1007/s12665-017-6789-0
- **Vishwakarma C.A.**, Asthana H., Singh D., Pant M., Sen R., & Mukherjee S. (2017). GIS based bi-variate statistical approach for landslide susceptibility mapping of South District, Sikkim. *International journal of innovative research in science, engineering and technology*, Vol. 6, Issue 7.
- Singh P., Javed S., Shashtri S., Singh R. P., **Vishwakarma C. A.**, & Mukherjee S. (2017). Influence of changes in watershed landuse pattern on the wetland of Sultanpur National Park, Haryana using remote sensing techniques and hydrochemical analysis. *Remote Sensing Applications: Society and Environment*, 7, 84-92. DOI 10.1016/j.rsase.2017.07.002
- **Vishwakarma C. A.**, Thakur S., Rai P. K., Kamal V., & Mukherjee S. (2016). Changing land trajectories: a case study from India using a remote sensing based approach. *European Journal of Geography*, 7(2), 61-71.
- Singh, N., Asthana H., **Vishwakarma C. A.**, Sen R., & Mukherjee S. (2016). Soil chemical analysis of gangetic delta plain by combined use of multispectral imagery and XRF spectroscopy. *International Journal of Advance Geosciences*. DOI: 10.14419/ijag.v4i2.6743
- Kamal V., Mukherjee S., Singh P., Sen R., **Vishwakarma C. A.**, Sajadi P. & Rena V. (2017). Flood frequency analysis of Ganga river at Haridwar and Garhmukteshwar. *Applied Water Science*, 7(4), 1979-1986. DOI 10.1007/s13201-016-0378-3

## || Conferences ||

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### Oral presentation

- Paper presented on topic "**Changing Land Trajectories in Singrauli Region of Madhya Pradesh: A Remote Sensing Based Approach**" on 2nd URSI-Regional Conference on Radio Science-2015.

### Poster presentation

- Poster presented (Best poster award) on the topic "**Land use land cover change analysis in South Sikkim using Landsat datasets**" at Jawaharlal Nehru University, 2018.
- Poster presented on the topic "**Land surface temperature estimation of South Sikkim using Landsat datasets**" at Kitakyushu, Fukuoka, Japan on 07-09 November, 2017.
- Poster presented on the topic "**Assessment of changing land pattern in South Sikkim using multispectral datasets**" at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi held on 29 March 2017
- Poster presented on the topic "**GIS based Bi-variate Statistical Approach for Landslide Susceptibility Mapping of South District, Sikkim**" at National Symposium, IIRS, Dehradun, 2016.

## || Workshops and trainings ||

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- Attended 5-days Faculty Development Programme on "**How to Make the Teaching Learning Process Effective**" on 25th to 29th June, 2018.
- National Workshop on Techniques in Hyperspectral Data Analysis and Processing, BHU, Varanasi, 2017.
- Attended online certificate course on "**Microwave Radar Remote Sensing and its Applications**".
- Attended online certificate course on "**UAV Remote Sensing and Applications**".
- Attended 12 weeks training program on "**Geospatial Technologies and Application**" organized by National Remote Sensing Centre, ISRO, Hyderabad, 2014-2015.

- Hands on **Advanced Instruments of Water Quality Testing** in National Institute of Hydrology, Roorkee, 2013.

### || Awards and Fellowships ||

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- UGC-NET JRF (Environmental Science) 2012
- UGC-NET SRF (Environmental Science) 2015
- CSIR-Travel grant 2017

### || Core Competencies ||

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|-----------------------------|------------------------------|--------------------------------|
| • Hydro-geochemistry        | • Water resource management  | • Climate change               |
| • Landslide risk assessment | • Land cover change dynamics | • Hyperspectral image analysis |
| • Landsat data analysis     | • IRS data analysis          | • Geospatial modelling         |
| • Resistivity survey        | • VES Survey                 | •                              |

### || Personal Details ||

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**Date of Birth** : January 02<sup>nd</sup> 1988  
**Age** : 33 years  
**Languages Known** : English and Hindi.  
**Marital Status** : Married  
**Permanent Address** : S/O Lallan Prasad Vishwakarma, Takkhu Ki Bauli, Post-Sewapuri, Dist.-Varanasi, UP, India-221403

### || Referees ||

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#### **Prof. Vinay S.P. Sinha**

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#### **Dr. Ram Avtar**

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