

Curriculum Vitae

Dr. Ajay Kumar Singh

Assistant Professor

Department of Forestry, Wildlife &
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Date of Birth: 01.05.1980

Area of Interest: Forested Watershed Management, Remote Sensing & GIS, Landscape dynamics

Academic Qualifications:

Ph.D. Degree (Forestry) 2011 (Awarded) Guru Ghasidas University, Bilaspur, Chhattisgarh

(Title of Ph.D. Thesis: Watershed Management and Fire Monitoring by Using Remote Sensing and GIS in Hasdeo River Basin Area of Chhattisgarh)

M.Sc. (Forestry) 2005 (Ist Div.) Guru Ghasidas University, Bilaspur, Chhattisgarh

B.Sc. (Zoology Hons.) 2000 (Ist Div.) Magadh University, Bodhgaya, Bihar

XIIth (Phy., Chem., Bio.) 1997 (IInd Div.) B.I.E.C., Patna

Xth 1995 (Ist Div.) B.S.E.B., Patna

Teaching/Research Experience:

Assistant Professor, Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur, Chhattisgarh, India since 18th November 2019 to till date.

Assistant Professor (Adhoc), Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur, Chhattisgarh, India since July 2016- November 2019.

Assistant Professor (Adhoc), Department of Rural Technology and Social Development, Guru Ghasidas University, Bilaspur, Chhattisgarh, India since July 2013- June 2016.

Research Associate (MoEF&CC funded Project), Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur, Chhattisgarh, India since January 2013- July 2013.

Editorship affiliation:

- Editorial Board Member, Journal of Forest Product and Industries, Africa
- Editorial Board Member, Global Journal of Engineering, Science & Social Science Studies, India

Professional affiliation:

- Member, International Water Association, Netherland
- Member, Commonwealth Forestry Association, UK
- Senior Member, Asia–Pacific Chemical, Biological and Environmental Engineering Society, Hong Kong
- Member, Centre for Science and Environment, New Delhi, India
- Member, Institute for Research and Development, India

Visit abroad for paper presentation in International Conference:

- “Satellite Remote Sensing & GIS Software based Integrated Watershed Management in Two Micro Watersheds of Chhattisgarh, India” has been presented in International Conference on Recent Advances in Engineering, Technology and Science (ICRAETS), Phuket, Thailand on 8th January, 2018.
- “Forest Vegetation Analysis and Land Cover Assessment in Tan Sub Watershed of Hasdeo River Basin, Chhattisgarh, India” has been presented in International FIG Working Week, 2011 at Marrakech, Morocco, Africa during May 18th-22nd, 2011.

Award:

- Environmental Biologist of the year 2017, presented by Scientific and Environmental Research Institute, Kolkata, Indian Institute of Ecology and Environment, New Delhi and Confederation of Indian Universities, New Delhi at Indian International Centre, New Delhi on 5th June 2017.

Best Paper Presentation Award:

- “Satellite Remote Sensing & GIS Software based Integrated Watershed Management in Two Micro Watersheds of Chhattisgarh, India” in International Conference on Recent Advances in Engineering, Technology and Science (ICRAETS), Phuket, Thailand on 8th January, 2018.
- “Assessment of LULC and Forest Tree Diversity in South Kharang Forest Sub Range, Chhattisgarh through Remote Sensing & GIS” in 3rd International Conference on Environment & Ecology, St. Xavier’s College, Ranchi, Jharkhand, India during March 27-29, 2017.
- “Land Use/land Cover Change Analysis Using Remote Sensing Technique in Baloda Sub Watershed of Chhattisgarh” in International Conference on Climate Change Mitigation and Technologies for Adaptation (IC3MTA-2016), Synod College, Shillong, Meghalaya, India during June 20th -21st, 2016.

Delivered lectures in Workshop/Faculty Development Programme:

- Resource Person in the Department of Biotechnology (DBT) sponsored training programme on “Characterization of Biodiversity of Tropical Forest Ecosystem part of Achanakmar-Amarkantak Biosphere Reserve of Chhattisgarh” organized by UGC-Academic Staff College, GG University, Bilaspur, Chhattisgarh, India from December 24th, 2012 to January 05th, 2013.
- Expert/ Resource Person in the TEQIP sponsored Faculty Development Programme on “Remote Sensing and GIS Application in Natural Resource Management” organized by Department of Agriculture Engineering, North Eastern regional Institute of Science and Technology (NERIST), Nirjuli (Itanagar), Arunachal Pradesh, India during May 14th - 18th, 2012.

Conferences/Workshops/Training attended or participated:

National Conference/Seminar (paper presented)	:	08
International Conference/Seminar (paper presented)	:	07
Workshop/Training/ Courses attended	:	11
M. Sc. Students supervised for their Dissertation work	:	10

Administrative Experiences:

- Worked as Liaising officer during 6th Convocation of Guru Ghasidas Vishwavidyalaya Bilaspur, Chhattisgarh on 15th October 2017.
- Worked as Member of Advertisement Committee constituted for International Conference on Bharat Rejuvenation (ICBR-2017), Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) during October 15th -17th 2017.
- Worked as Member of Technical Committee for Session IV: Bhartiya Concept of Sustainable Development on International Conference on Bharat Rejuvenation (ICBR-2017), Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) during October 15th -17th 2017.

List of Research Publications:

Singh, S S, Kharkwal, Harendra, Singh, Ajay K, Upadhyay, Saurabh, Mahato, Anupama 2019. Multi-temporal land use/cover change and its driving forces analysis using IRS-1D & P6 LISS3 satellite at early spring in Gej subwatershed of Hasdeo River in Chhattisgarh, India. *Interciencia*, 44(6): 1-15.

- Singh, Ajay K. and Sahu, Ramanuj 2018. FLULC Assessment in North Kharang Forest Sub Range of Katghora Forest Division, Chhattisgarh through Remote Sensing & GIS, *International Journal of Recent Scientific Research*, 9 (2D): 24018-24021.
- Singh, Ajay K. 2017. Assessment of Land Use/Cover Changes in Lower Tesua Subwatershed in Chhattisgarh through Remote Sensing and GIS, *International Journal of Engineering and Management Research*, 7(2): 454-458.
- Singh, Ajay K., Singh, Pushpraj and Hackett, Anand 2016. Land Use/Land Cover Change Analysis Using Remote Sensing Technique in Baloda Sub Watershed of Chhattisgarh. *In proceeding of International Conference on Climate Change Mitigation and Technologies for Adaptation (IC3MTA-2016)*, Synod College, Shillong, Meghalaya, June 20-21, 2016. Pp. 95-98.
- Singh, Pushpraj, Soni, Prasoon and Singh, Ajay K. 2016. Remote Sensing and GIS Based Study of Desertification in the Villages of Seepat Block of Bilaspur District, Chhattisgarh. *In proceeding of International Conference on Climate Change Mitigation and Technologies for Adaptation (IC3MTA-2016)*, Synod College, Shillong, Meghalaya, June 20-21, 2016. Pp. 120-124.
- Singh, Ajay K and Singh P R 2016. Integrated Watershed Management of Borsi Micro watershed of Janjgir-Champa district, Chhattisgarh through Remote Sensing Technique. *In proceeding of International Conference on Global Environment: Issues, Challenges and Solutions*, Aurangabad, Part –V, Feb 29th, 2016. Pp. 160-165.
- Singh, P R, Dixena, A K, Kumar, Dilip and Singh, Ajay K. 2015. Impact Assessment of Watershed Activities in Donganala Village, Korba District of Chhattisgarh State. *International Journal of Technology and Science*, 6(1): 8-11.
- Mukeshkant, Singh, Pushpraj, Singh, Ajay K and Kumar, Dilip 2015. Study of Dighora Micro watershed, Chhattisgarh through Remote Sensing & GIS. *International Journal of Remote Sensing & Geoscience*, 4 (1): 37-40. (ISSN: 2319-3484). IF: 1.7.
- Singh, P R, Dixena, Rajkumar, Kumar, Dilip and Singh, Ajay K. 2014. Assessment of Road and Settlement area of Ratanpur, district Bilaspur, Chhattisgarh through Remote Sensing and GIS. *International Journal of Scientific Research*, 3 (12):47-49.
- Singh, Ajay K, Singh, Singh, S S, Singh, Pushpraj and Chandel, Parmeshwar 2014. Remote Sensing Techniques for Land Use Mapping in Lower Agar Sub Watershed, Chhattisgarh, India. *Global Journal of Multidisciplinary Studies*, 3 (11): 129-136.

- Singh, S S and Singh, Ajay K 2013. Spatio-temporal change detection for LULC and its impact on Hasdeo River basin of Central India. *International Journal of Recent Scientific Research*, 4 (6): 925 – 930.
- Singh, Ajay K and Singh, S S 2012. Exploring the spatio-temporal dynamics of forest land use/ land cover changes in Ahiran sub watershed of Central India. *Forest Review*, 43: 19-23.
- Singh, Ajay K. and Singh, S S 2012. FLULC mapping and assessment of a typical sub watershed of Central India using IRS-P6 LISS 3 data. *Journal of Biodiversity & Environmental Science*, 2(9): 26-32.
- Singh, Ajay K and Singh, S S 2011. Forest Vegetation Analysis and Land Cover Assessment in Tan Sub Watershed of Hasdeo River Basin, Chhattisgarh, India. *In proceeding of the FIG Working Week 2011, Bridging the Gap between Cultures, Marrakech, Morocco, 18-22 May 2011.* pp. 1-11.
- Singh, S S, Singh, Ajay K. and Vandana 2011. Forest Type Variations and Catchment Status in the Bamni Sub Watershed of Hasdeo River Basin in Chhattisgarh, India. *Journal of Biodiversity & Ecological Science*, 1(1): 95-102.
- Singh, Ajay K. and Singh, S S 2010. Upper Hasdeo Sub Watershed Status in Hasdeo River Basin at Chhattisgarh, India. *In Proceeding of the XXIV FIG International Congress 2010, Sydney, Australia from 11-16 April, 2010.* pp. 1-6.
- Singh, S S and Singh, Ajay K. 2009. Variability and distribution in Acacia. “In Biodiversity to Biotechnology: IPR”. Eds A. Jaiswal and G. Das, NAROSA Publication, New Delhi, pp. 250-262.