

CURRICULUM VITAE

Dr. S.P. Singh, IFS (Retd.)

Domain Head, Natural Resources & Environmental Sciences and Director,
Amity School of Natural resources & Sustainable Development (ASNRSD)
and Amity Institute of Geo-Informatics & Remote Sensing (AIGRS)

Former Principal Chief Conservator of Forests (Planning & Development),
Assam

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Date of Birth: 2nd January, 1956

Dr. Singh did his Ph. D. in Zoology (Insect Physiology), M.Phil. (Zoology- Entomology), Master degrees in 4 subjects viz. Zoology, Forestry, Sociology, Geoinformation (GIS & Remote Sensing). He also did Diploma in Management.

Dr. Singh joined Indian Forest Service in 1983 and served on several important assignments in the Forest Department of Assam. He also contributed in various wildlife conservation programmes at world heritage Sites – Manas and Kaziranga Tiger Reserve. Reintroduction of Rhinos and revival of critically endangered species at Manas Tiger Reserve is the special contribution of Dr Singh.

Dr. Singh also served in the Project Tiger (Now NTCA) in Govt of India. He also served in Wildlife Institute of India (WII), Dehradun, Indian Council of Forestry Research and Education (ICFRE), Dehradun and Indra Gandhi National Forest Academy (IGNFA), Dehradun in different capacities.

He widely travelled in India and abroad for attending trainings, study tours, academic courses, seminars and workshops. He has expertise in the field of Biodiversity Conservation, Eco-development, Forestry and Wildlife management, GIS & Remote Sensing, Climate Change & Carbon Assessment and Legal issues with forestry and wildlife sector.

Special interest was taken in aided natural regeneration of *Hollong - Makai* Rain Forests in Upper Assam and anti-depression measures with reference to Wild Elephants and Leopards. Associated with planning, project formulation and implementation of eco-development schemes around PAs as park-people interface. Research work related with Assessment and Evaluation of Biological Diversity and forest Productivity in Garo Conservation Area (Meghalaya).

Research Study was carried out on the Impact of Forest Degradation on Carbon Density in Soil and Vegetation of *Shorea robusta*_(Sal) Forests in the part of Siwalik hills of Dehradun, India, using Geospatial Techniques during the period 2008-10 with an objective to determine the variability of carbon density in soil and vegetation relationships among soil organic carbon, biomass carbon and forest degradation as well as the potential of carbon sequestration in Sal forests, using IRS LISS III satellite data and ground data collected from stratified random sampling based on homogeneity map of forest strata. The correlation of above ground biomass with NDVI was used for mapping aboveground biomass and carbon from plot level to the area of Sal forests.

Amity University Noida is the largest private University and committed for the cause of natural resources, forest, environmental, wildlife and sustainable development.

Educational Qualification:

S. No.	Degree	University/Institution	Year of Passing	Main subject
1.	B. Sc. (Hon.)	Aligarh Muslim University	1975	Zoology, Botany, Chemistry
2.	M. Sc.	Aligarh Muslim University	1977	Zoology (Entomology)
3.	M. Phil	Aligarh Muslim University	1980	Zoology (Entomology)
4.	Ph. D.	Aligarh Muslim University	1984	Zoology (Insect physiology)
5.	M. Sc, Forestry AIFC	Indira Gandhi National Forest Academy, Dehradun	1985	Forestry and its allied subjects
6	M.A.	Garhwal University, Uttarakhand	1998	Sociology
7.	Diploma in Management	IGNOU, New Delhi	2008	Business administration
8	M. Sc. (Geo-informatics & Earth observation)	University of twenty, ITC, Enschede, Netherlands and IIRS, Dehradun	2010	Remote sensing & GIS, Geo-hazards & Disaster mgmt with special research project on Assessment of carbon density in vegetation and soil with respect to Forest degradation in Sal Forests

Training courses attended: (short term courses 1-3 weeks)

1. Orientation in Remote Sensing Application to Forestry & Ecology at IIRS, Dehradun, 1986
2. Training Program in General Forestry at Ernaculum, Kerala, 1987
3. Top Management Program on public enterprises at IPE, Hyderabad, 1988
4. Management Development Program on HRD at IIPA, New Delhi, 1990
5. Social Forestry Extension Program at ATI, Mysore, 1992
6. Computer Application Program at NIC, New Delhi, 1992
7. Forestry & Rural Development at NIBM, Pune, 1993
8. Management in Govt. offices at ASC, Hyderabad, 1994
9. Management Development Program on Forest Management – New Challenges at IIFM, Bhopal, 1995
10. Project Formulation for External Assistance at IGNFA, 1998
11. Policy and Legal Issues in Forestry at IGNFA, Dehradun, 1999
12. IFS in-Service Training Program at IGNFA, 2000
13. Training of Trainers at Academy of administration, Nainital, 2002
14. Compulsory Training Course at SVPNPA, Hyderabad, 2003
15. Advanced Forest Management Course for IFS officers at IGNFA, Dehradun, 2004

16. Training Course on Biodiversity Conservation & Community at GEER Foundation at Gandhinagar, 2005
17. Training workshop on Issues involved in man-Animal Conflict-Strategies for mitigation at Centre for Biosocial Advancement, Kolkata, 2005
18. Training workshop on Operationalising the role of forests in ecological and economic security of the country – current Status and future strategies at RCVF Noronha Academy of administration, Bhopal, 2006
19. Training Program on The Right to Information Act, 2005 at Institute of Socio-economic Research & Action, New Delhi, 2007
20. Livelihood Enhancement Strategies in Forest Fringe Villages, A.P. Forest Academy, Hyderabad, 2007
21. IFS Mid-Term Training at Indira Gandhi National Forest Academy, Dehradun 2011
22. "Communication and Presentation Skills" at Railway Staff College, Vadodara, 2012
23. "The Motivational Mantras" at Institute of Management Training and Research (IMTR), Goa, 2013
24. "Livelihood Enhancement and Micro-Enterprises Development through Community Participation, at Institute of Rural Management, Anand (IRMA) Gujarat, 2015

Countries of Work Experience:

Overseas Experience:

S. No.	Name of country	Period	Detail of assignment
1	Kenya & Tanzania	March – April, 1993	Study tour on wildlife management in national parks of Kenya & Tanzania
2	University of Bradford, UK	Jan- April, 1995	Course in Planning of Projects for Biodiversity Conservation
3	Canberra, Australia	Nov- Dec, 1996	Integrated Forestry Planning Course on people participation
4.	Spain	2006	Presentation on Research paper on the methods for evaluation of goods and services from plantations”
4	University of Twente, Netherland	March – June, 2009	M. Sc. Course in Geo-information and earth Observation with specialization in geo-hazards in collaborating program of IIRS, Dehradun and ITC, Netherlands from July 2008 -- Jan- 2010
5	Canada	April, 2011	Studies of forestry practices in Canada and its applicability in India

Languages Known: Hindi, English

Employment Record:

From-To	Employer	Position Held	Work Undertaken
June, 2017 -	Amity University	Director, ASNRS	Overall all activities of training, workshop, consultancies, academic

From-To	Employer	Position Held	Work Undertaken
continue			course etc.
June, 2022 - continue	Amity University	Director, AIGRS	Overall all activities of training, workshop, consultancies, academic course etc.
1 st January - 31 st 2016	Govt. of Assam	PCCF, Assam	Works related with research and monitoring in Assam
12 th April 2012 - 31 st December 2015	ICFRE, Dehradun	Deputy Director General (Admin.) ICFRE (HQ), Dehradun	All matter related with administration and finance
March 2011 – April 2012	Govt. of Assam	Add. PCCF (WL)	All matter related with wildlife management in Assam.
March 2010 – March 2011	Govt. of Assam	Nodal Officer (FC)	Project Proposal clearance under Forest Conservation Act (1980), Wildlife (P) Act (1972) and IBWL & Eco-sensitive zones. Planning for utilization of CAMPA Funds, Monitoring of compensatory plantations, and other conditions imposed on agency on clearance of forest land Nodal officer for Mitigation & Adaptation Climate Change Projects Assam
July 2008 - January 2010	IGNFA, Dehradun	Officer trainee,	Pursued M. Sc. Course in Geo-information and earth Observation with specialization in geo-hazards in Collaborating programme of IIRS, Dehradun and ITC, Netherlands
April 2007 - June 2008	IGNFA, Dehradun	Professor, IGNFA	Overall imparting training to IFS Probationers & in-service IFS officers and other central services. Also arranging training programme for Participants from SAARC Countries
August 2001 - March 2007	ICFRE, Dehradun	Secretary, ICFRE, Dehradun	General administration, HRD including recruitment and establishment matter of scientists/officers of the Council. Framing rules/regulations of the council Matter related with Board of Governors and ICFRE Society
August 1998 - July 2001	Govt. of Assam	Field Director, Manas T.R.	Overall Administration and Scientific Wildlife Management of Manas Tiger Reserve
June 1995 - June 1998	WII, Dehradun	Scientist F, WII, Dehradun	Research Projects work on Biodiversity and teaching & training, consultancies related with wildlife management and eco-development
June 1991 - June 1995	MoEFCC, GoI	Dy. Director, Project Tiger, MOEF	Planning, monitoring and coordination of Tiger Reserves in the country. Eco-development Scheme funded under GEF (World Bank) and Govt. of India

From-To	Employer	Position Held	Work Undertaken
March 1990 – April 1991	Govt. of Assam	Dy Director, Manas T.R.	Overall wildlife management of Manas National Park – world Heritage Site under UNSECO
March 1989 – March 1990	Govt. of Assam	Senior Wildlife Warden	Monitoring and co-ordination work related with management of wildlife areas in the state of Assam
September 1988 – March 1989	Govt. of Assam	MD, APCD Ltd.	Executive Head of Assam Plantation Crop Development Corporation Ltd. related with raising coffee and rubber plantations, processing, marketing and rehabilitation of Jhumias (shifting cultivation)
August 1985 – September 1988	Govt. of Assam	Asstt. Conservator of Forests	Scientific and administrative working of Management of tropical rain Forests
May 1983 – March 1985	Govt. of India	Probationer	Training Course of IFS Probationer for AIFC (M. Sc. Forestry)

Relevant Experience/Publications/Projects undertaken –

Scientific Management of Forests:

- i. Natural Sal Regeneration in the Kamrup Forest Divisions (1985-86).
- ii. Aided Regeneration of *Hollong- Makai* forests in Dibrugarh Forest Division (1986-88).
- iii. Rehabilitation of Shifting Cultivators in hill districts of Assam through cultivation of Coffee and Rubber plantations (1988-89).

Management of Protected Areas:

- i. Tall grassland management through controlled fire burning on mosaic pattern with special reference to the conservation of highly threatened species like Pygmy hog, Hispid hare, Bengal florican etc. (1989-90 and 1998-2001).
- ii. Initiation of people participation in the wildlife management through formation of fringe people Groups-MANAS Bandhu at Manas -World heritage site under UNESCO by involving them in protection work and mass awareness program for Conservation of flora and fauna (1998-2001).
- iii. Monitoring of large mammals in Manas Tiger Reserve (1998-2001).
- iv. Translocation of Rhinos from within Assam under Indian Rhino vision (IRV) 2020 as Chief Operations Officer of translocation core committee (2010-12).
- v. Population estimations of wild elephants and tigers in the state of Assam.
- vi. Anti-depredation measures in relation to resolve Human-wild animal conflict.
- vii. Management plan of Protected Areas and issues related with eco-sensitive zones around PAs.
- viii. Organised International workshop on Tiger Conservation at New Delhi in 1993 on completion of 20 years of Project Tiger. The 'establishment of Global Tiger Forum' and bilateral agreement with China were the outcome of the workshop.

Policy, Planning and Coordination:

- i. Collecting, compiling, coordination of information/activities related with National Park and wildlife sanctuaries and preparation of annual plan and wildlife schemes in the state of Assam as Senior Wildlife Warden (April, 1989 – March, 1990).
- ii. Planning and coordination of the management of Tiger Reserves in the country, creating database on tiger & leopard etc., Organizing and participating in National and international seminar related with Tiger, associated with formulation and planning of Centrally Sponsored Scheme – Eco-development around protected areas and GEF- world bank supported Eco-development scheme in selected national park of the country, Preparation of Tiger Action plan, Associated with establishment of 'Global Tiger Forum', CITES implementation in Northern region of India as Deputy Director, Project Tiger and Assistant Management authority of CITES Implementation in India (June, 1991 – June, 1995).
- iii. Framing various rules and regulations related with recruitments, Promotion, scientific consultancies, Research fellowships etc. as Registrar, wildlife institute of India (June, 1995 - June, 1998) and Secretary, ICFRE (August, 2001 - March, 2007).

Research, Consultancies and Training:

- i. Research work as JRF and SRF of CSIR in pursuing the Ph. D. Program "Effect of Insecticides on the excretory efficiency of the *Dysdercus cingulatus* adult (Heteroptera: Phyrrohocoridae) between 1978–83.
- ii. Research Project Investigator in USDA Forest Service and WII Collaborative project on "*Management of Forests in India for Biological Diversity and Forest Productivity – Garo Hills Conservation Area, Meghalaya*" (June, 1995 - June, 1998).
- iii. Served as Course Director of PG Diploma on Wildlife Management at WII, Dehradun (1996).
- iv. Chairman of Research Advisory Committee in the field of Entomology for Ph. D. Synopsis Seminar in FRI Deemed University (2002-07).
- v. Participated in a number of Forestry and wildlife research workshops, seminar at WII and FRI (ICFRE), Dehradun.
- vi. Research studies on "Impact of Forest Degradation on Carbon Density in Soil and Vegetation of *Shorea robusta* (Sal) forests in the part of Siwalik Hills of Dehradun, India using Geospatial technique." 2008-10.
- vii. Visiting faculty to WII, Dehradun, SFSC, Dehradun, FRI Deemed university of forestry and wildlife subjects (2001-07).
- viii. Served as Course Professor in organizing international courses for SAARC countries and All India officers and Central Services at Indira Gandhi National Forest Academy (IGNFA), Dehradun. The formulation of course curriculum of various long term and short-term courses on forestry and wildlife at IGNFA, (2007-08).
- ix. Consultancies in the field of eco-development for the preparation of Management plans of Buxa Tiger Reserve, Ranthambhore Tiger Reserve, Pench Tiger Reserve Under Global Environment Facility projects on Eco-development.
- x. Served as Nodal Officer for the Assam Forest Department for formulating *State Action Plan on Climate Change* and Indo German Project on *Climate Change adaptation* in the state of Assam.
- xi. Served as Course Director for organizing various training programmes/ workshops/seminars sponsored by different ministries, Government of India from June, 2017 to till date.

- xii. Served as Nodal Officer for the In-depth Study of "Wood Carving Industry at Saharanpur (UP) with Specific Reference to the Issues of Availability and Certification of Raw Material, Technology Up-gradation and Marketing Evaluation"
- xiii. Served as Project Director for the study on "Bamboo: A Potential Tool for Empowerment of Tribal Women in the State of Tripura, Maharashtra and Odisha"
- xiv. Served as Project Director for the Research Study on "Implementation of Forest Right Act, 2006 in the context of Right, Empowerment and Impact of Socio-Economic Status of the Women in the State of Maharashtra and Odisha"

Research Publications

- i. Excretory efficiency malpighian tubule of adult *Dysdercus cingulatus* (Heteroptera: Phyrrohocordae). Indian Journal of Experimental Biology 19, 1981, pp 853-855.
- ii. Effect of Rogor (an organo phosphate) on the absorption of indigo carmine by the malpighian tubule cells in *Dysdercus cingulatus* adult (Heteroptera: Phyrrohocordae). *The Indian Zoologist Vol.7 Nos. 1 & 2 1983, pp. 27-30.*
- iii. Impact of climate change on biodiversity and forest ecosystem in North- east India published in proceedings of workshop on climate change in Agartala, Tripura, 2011.
- iv. Singh, S.P.; Sharma, A. and Talukdar, B.K. 2012. Translocation of rhinos within Assam: a successful third round of the second phase of translocations under Indian Rhino Vision (IRV). Report of IRV 2020. Assam: translocation core Committee
- v. Singh, S.P.; Singh, S.; Kumar, S. and Hussain. Y. 2013. Under-storey vegetation carbon characterization of *Shorea Robusta* (Sal) forest using ground data and geospatial techniques. *Indian Forester, 139 (7) 576-584.*
- vi. Dubey, P.; Singh, S.P.; Singh V., Dhiman, S.; Saini, A., Devi, M. and Mishra, P. 2020. "In-Depth Quantitative Analysis of Saharanpur Wood Handicraft Industry on the Specific Issues of Availability and Supply of Raw Material", Current Journal of Applied Science and Technology, 39 (48): 136-144.
- vii. Dubey, P.; Singh, S.P.; Verma, A.; Singh V.; Dhiman, S.; Saini, A. and Mishra, P. 2021. "Quantitative Analysis of Saharanpur Wood Carving Handicraft Industry on the Specific Issues of Technology Upgradation and Marketing Evaluation", Journal of Tropical Forestry, 37 (IV): 61-71 (ISSN0970-1494).
- viii. Singh, V.; Kumar, S., Singh, R., Singh, C.J., Singh S.P. and Lepcha, S.T.S. 2021. Eco-hydrological impact of bamboo plantation in river Bank. Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 12, Issue 9 July 2021: 13504 – 13514.
- ix. Dubey, P.; Singh, S.P.; Verma, A; Singh, V.; Dhiman, S.; Saini, A. and Misra, P. 2021. Quantitative Analysis of Saharanpur Wood Carving Handicraft Industry on the Specific Issue of Wood and Wood Certification. Indian Forester.
- x. K. Rathna, Ishwar Singh, Vartika Singh, Charan Jeet Singh, Richa Singh, S.P. Singh, Rakesh Singh, Santosh Kumar Sharma, Sanjay Singh, S.T.S. Lepcha and Nisha Tripathi. 2021. Socioeconomic study of bamboo artisans in Northern flood plains of India-A case study of Bahraich district of East Uttar Pradesh, Design Engineering; ISSN-0011-9342; Vol 8, Pp-17024-17037.
- xi. S.P. Singh, S. Kumar, S. Singh, and Y. Hussin. 2022. Forest Degradation impact on soil organic carbon in Doon Valley-A Geospatial approach, Indian Forester.
- xii. Singh, S.P., S. Kumar. and Singh, S. 2022. Forest Degradation Impact on Soil Organic Carbon - A Geospatial Approach, Indian Forester 148 (3): 245-255 (ISSN 0019-4816; eISSN: 2321-094X).
- xiii. Sharma, Shalini and Singh, S.P. 2022. Building Energy- Current techniques in Energy Efficiency, 3rd International Conference on Climate Change, Bali, Indonesia. June 1-3, 2022.
- xiv. Bajpai, Anisha and Singh, S.P. 2022. Climate Change Mitigation through Restorative Regenerative Building Design, 3rd International Conference on Climate Change, Bali, Indonesia. June 1-3, 2022.

- xv. Brindaman, N.B., Goraya, G.S., Singh, S.P., Kumar, A.D. and Tiwari, A. 2022. Saraca (asoka), W.J. De.Wilde: A preliminary study on its conservation with special reference to Genetic Diversity, International Conference of Agriculture, Forestry, Biotechnology and Food Science (ICAFBFS), August 7, 2022, Munnar, India.
