

Position Title: Senior Ecologist
Name of Expert: Dr. Vivek Joshi
Date of Birth: November 06, 1983
Country of Citizenship / Residence: India

Education:

2014: PhD, Botany (Department of Botany), Kumaon University Soban Singh Jeena Campus Almora Uttarakhand.

2008: Certificate Course in Statistical and Computer, Department of Botany.

2005: Master of Science (Botany), Deb Singh Bisht Campus Department of Botany (State) University, Nainital, Uttaranchal.

2003: Bachelor of Science Forestry, Botany & Information Technology, Kumaon University, Nainital Uttarakhand.

Other Training and experiences:

- Successfully completed wild life census programs of Forestry department Kumaun University Nainital in collaboration of forest department Uttarakhand on recording wildlife evidences for avian, ungulates and hill pheasant 2000-03.
 - Successfully completed a training programme on “wildlife census (leopards and Tigers) in Ranthambour National Park Rajasthan India” supported by wildlife institute of India 2007.
 - Successfully Completed “Avian survey workshop focusing on western Himalayan avian diversity” in Kedarnath wildlife sanctuary 2008 organised by wildlife institute of India.
 - British High Commission and LEAD India Training Programme on “Regional case study workshop” at Nainital, Uttarakhand, 16-17 February, 2009.
 - Successfully completed three month training on mapping the high medium and low human wildlife conflict zone in villages inside and on the fringe of Bandhavgarh national park, funded by The Corbett Foundation Ramnagar.
 - British High Commission and LEAD India Training Programme on “The climate change leaders initiative Himalayan region India” as a selected Climate Change Leader from Uttarakhand state at Corbett National Park, Ramnagar, (Nainital, Uttarakhand), 18-20 December, 2008.
 - Successfully Completed a Training Programme on “Science for Rural Societies”. February, 18-29, 2008 in LalBahadurShastri NationalAcademy of Administration (LBSNAA), Mussoorie, INDIA.
 - Successfully Completed Two Days Training on “Forest (Conservation) Act, 1980 & Procedure of Forest Clearances in India” in Pasighat, Arunachal Pradesh from November 25th-26th Organized by National Highway Infrastructure Development Corporation (NHIDCL), Govt. of India in association with State Forest Department Arunachal Pradesh.
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Employment Record relevant to the Assignment:

PERIOD	EMPLOYING ORGANIZATION AND YOUR TITLE / POSITION. CONTACT INFORMATION FOR REFERENCES	COUNTRY	SUMMARY OF ACTIVITIES PERFORMED RELEVANT TO THE ASSIGNMENT
August 2016-present	Doon University (State Government University) Research Associate III School of Environment and Natural Resources	India	<ul style="list-style-type: none"> ▪ Survey and assessment of natural resources (forest based, water resources, solar etc.) ▪ Development of sustainable harvesting protocols for critically endangered, vulnerable and threatened flora species. ▪ Conduct research on status of resources which are being traded and are being collected from wild. ▪ Development of Access and Benefit Mechanism as per NAGOYA Protocol in collaboration of Biodiversity Monitoring committees in Western Himalaya. ▪ Design and implement plans to assess the potential adverse impact on the local biodiversity by development activities. ▪ Development of conservation framework wild ungulate population in Pithoragarh and Uttarakashi district. ▪ Study of existing ecological and biodiversity diversity of in western Himalayan Regions. ▪ Develop strategies for reduction of human wildlife conflict in agriculture sector in Uttarakhand Himalayas. ▪ Preparation of annual reports for Minister of Environment Forest and Climate Change (MoEFCC). ▪ Preparation of Compensatory Reforestation plan, Biodiversity Conservation Plan, Preparation of Environmental Impact Assessment of Road construction through <i>Van- Panchayat</i> Land. ▪ Monitoring Programme, Preparation Emergency Preparedness Plan and Land Acquisition Plan.

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August 2019- November 2019	Arcadis India Private Limited 3rd Floor, Tower- B, Logix Techno Park,Plot: No.5, Sector 127. (Part Time)	India	<ul style="list-style-type: none"> ▪ Study the procedure for procurement of wood from farmer and work done by field plantation team of JK papers. ▪ Documentation check list for FSC-controlled wood. ▪ Verify Procedure for procurement of wood from Trader. ▪ Verification of Identified Vendor (Trader/ Supplier) as per FSC certification rules. ▪ Verify registration of vendor (Trader/ Supplier) as per FSC rules. ▪ Verify the documentation list for FSC Controlled Wood. ▪ Verification of FSC Controlled- Wood stalks at in-house yard. ▪ Study the Package of Practices developed and implemented for clone and naturally grown tree species. ▪ Wood Production and harvest Plan of JK Papers.
October 2019- December 2019	Fulgro environmental and Engineering Services India Pvt. Ltd. 27 Ashok Vatika Jotwara – Jaipur (Part Time)	India	<ul style="list-style-type: none"> ▪ Preparing cluster EIA report for Ekalsingha Granite Mining Project, located at Kekri tehsil District Ajmer. ▪ Identify the topography and location of water bodies, identify the pollution pockets. ▪ Collection and analysis of baseline data for various environmental factors. ▪ Creation of soil profile, land use with-in 10 km range and evaluation of existing terrestrial and aquatic flora and fauna with in 10 km range.
May 2018- January 2019	The assessment of Air Pollution levels for cities in Bihar, Uttar Pradesh and West Bengal. (Part Time)	India	<ul style="list-style-type: none"> ▪ Baseline Data Collection for Ambient Air quality. ▪ Collection of Monthly mean sulphur dioxide (SO₂), carbon monoxide (CO) and PM₁₀ concentrations at air quality monitoring station during 2018-19.

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July 2017- May 2018	Environmental Impact Assessment (EIA) of water quality study in Maharashtra, Ministry of Environment & Forests Environmental Impact Assessment Division	India	<ul style="list-style-type: none"> ▪ Review of reports & Reconnaissance Survey ▪ Baseline Data Collection for Ambient Air, Noise, Soil, Waste and water etc. ▪ Impact of industrialization on ground water quality. ▪ Review of Construction Methodology to reduce air, noise & vibration impacts on the project environment and biodiversity ▪ Preparation of Environmental Management Plan for Construction and Operation Stag
March 2015- May 2015	Consultancy Services for preparation of Environmental and Social Impact Assessment (ESIA) Solar PV Project at Bikener Rajasthan Volyants Solution Private Ltd.	India	<ul style="list-style-type: none"> ▪ To assist project manager in field survey. ▪ To establish the environmental baseline in the study area and to identify any significant environmental issue. ▪ To prepare an inventory of biodiversity (Flora and Fauna) affected due to project activity. ▪ To mitigate adverse impacts by the provision of the requisite avoidance and compensation measures of proposed project activities. ▪ To identify & design appropriate safeguards for associated risk & disasters with proposed management plan. ▪ To integrate the environmental and social issues in the project planning and design. ▪ Preparation of PAP profile through suitable survey using acceptable tool/s, as per the applicability. ▪ Focused Group discussion to identify the needs, problems, if applicable. ▪ Formulate and suggest suitable R&R and CSR plan (if applicable) for the specific project.

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November 2016- April 2017	Government of Orissa	India	<ul style="list-style-type: none"> ▪ Following activities were performed in the project. ▪ Records Review ▪ Reconnaissance Survey ▪ Watershed Characterization based on Hydrogeology ▪ Long Term Pumping Test ▪ Ground Water Modelling Assessment and Recording
Oct. 2017- March 2018	Voyants Soution Pvt. Ltd.		<ul style="list-style-type: none"> ▪ Preparation of Land Acquisition Plans (LAP) and Forest Right Act Clearances. ▪ Religious/Tourist places of the country and ADB Funded Projects in the State of Uttarakhand. (Km 617.630 km, 2 Lane) Pavement Type: Flexible/Rigid. ▪ Preparation of Land Acquisition Plans (LAP) and Forest Right Act Clearances. ▪ Religious/Tourist places of the country and ADB Funded Projects in the State of Uttarakhand. (Km 617.630 km, 2 Lane) Pavement Type: Flexible/Rigid.
March 2013 – May 2013	Govt. of Karnataka	India	<ul style="list-style-type: none"> ▪ environmental consultant on the base of field survey and cross verification of the data Available at BSI and ZSI database. ▪ Review of Environmental Screening Report as per the regulatory guidelines of India and World Bank's Operational Policies. ▪ Review the adequacy of assessment of valued environmental components (VECs) along roads. ▪ Assessment of various ecological aspects along project roads.
Oct. 2017- Mar. 2018	Voyants Soution Pvt. Ltd.	India	<ul style="list-style-type: none"> ▪ Bharatmala Project feasibility Study, Preparation Socio economic survey report and forest right act clearances services for Baijnath- Jauljibi and Almora – Karan Pryag road stretches/corridors to Two lane with paved shoulders NH configuration under BHARATMALA Project and National Highways connectivity to Backward areas.

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			<ul style="list-style-type: none"> ▪ Religious/Tourist places of the country and ADB Funded Projects in the State of Uttrakhand. (Km 617.630 km, 2 Lane) Pavement Type : flexible/ Rigid. ▪ Preparation of Land Acquisition Plans(LAP) and Forest Right Act Clearances Religious/Tourist places of the country and ADB Funded Projects in the State of Uttrakhand. (Km 617.630 km, 2 Lane) Pavement Type : Flexible/Rigid
March 2016 - June 2016	Everain Global Services	India	<ul style="list-style-type: none"> ▪ Manages the Project Management Cell (PMC) as 'Senior Biodiversity Expert' for successful completion of the project. ▪ Provide inputs for developing sampling strategy, data collection templates, review existing secondary data available with UPDCCL and literature ▪ Completes baseline data collection and impact assessment as per the approved TOR of the MOEF&CC. ▪ To undertake a comprehensive review and analysis of data collected by the field teams ▪ Updates 'Project head' on the progress of the project timelines and deliverables. vi. ▪ Attend meeting/ presentations as and when required, monitor quality of field data. Prepare draft report & Finalise in consultation with the Project head and UPDCCL inputs. ix. Perform any other related services required for the completion of the project.
November 2014- May 2016	Government of India	India	<ul style="list-style-type: none"> ▪ Ecological conservation and restoration of lakes, wetland and reservoirs ▪ Developing detailed report on biological diversity of the lakes. ▪ Assessment of waste-water treatment for its reuse by improving its quality. ▪ Create Livelihood opportunities for the poor dependent on these water bodies.

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			<ul style="list-style-type: none"> ▪ Developing conservation plan for improving aesthetics of the area. ▪ Carry out Ecological Assessment of identified lakes. ▪ Baseline data collection for faunal and floral assessment of the area. ▪ Assessment of the Threatened and Vulnerable Species in the project area
August 2010 to January 2012	Sir Ratan Tata Trust	India	<ul style="list-style-type: none"> ▪ The project was focused on creation of livelihood in rural villages of Uttarakhand by cultivation of medicinal and aromatic plants. The project focused on multiple levels from cultivation to harvesting, post harvesting, packaging, value addition and marketing of medicinal and aromatic plants produced by farmers in Uttarakhand. Positions held: Project Associate. ▪ Suggestion of species suitable for cultivation in mid and high Himalayan region of Uttarakhand with high market demand in Uttarakhand. ▪ Development of standard package of practice for cultivation of identified species. ▪ Development of large scale nurseries for production of plants. ▪ Creation of harvesting and post harvesting, packaging machines. ▪ Creation of farmer self-help groups. ▪ Improving yield by different ways. ▪ Sale of farmer produces to market.
October 2008– July	The Corbett Foundation	India	<ul style="list-style-type: none"> ▪ Conservation of Tigers in Bandhavgerh National Park and suggest mitigation of human wildlife

2010			conflict issues.
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			<ul style="list-style-type: none"> ▪ The project was focused on conservation related issues of Tigers in Bandhavgarh National Park. Inside the boundary of national park there are several villages where the tribal people often have conflict with wildlife and tigers. The main objective of project was to find mitigation techniques and suggest new ways of livelihoods for villages inside and on the periphery of Bandhavgarh national park Madhya Pradesh. ▪ As a Program Officer the main responsibility was to map the high medium and low conflict zone with wildlife in villages inside and on the fringe of Bandhavgarh national park. ▪ The project also collected data on movement of tigers in the boundary areas. The project also investigated dependencies of tribal people on forest produces and suggested alternative ways of livelihood to minimize their dependency on forest NTFPs. ▪ Carry out survey on wildlife conflict issues in Bandhavgarh national park. ▪ Baseline data collection for livelihood dependency of tribal on forest NTFPs. ▪ Tracking of Tiger movement in high medium and low conflict zones. ▪ Identification of other wild life conflict issues other the tigers killing livestock's. ▪ Suggesting new livelihood options and marketing the products of tribal people. ▪ Preparation of final report

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January 2008- September 2008	Wildlife Institute of India	India	<ul style="list-style-type: none"> ▪ This project was focused on structure and composition of timber line in western Himalaya and its vulnerability to climate change in alpine Himalaya. As Junior Research Fellow the main responsibility was to survey the timberline areas in alpine Himalaya between 2700- 3800 meter in Himalaya. ▪ The project was intended to collect baseline data of timberline in Uttarakhand and Himachal Pradesh. ▪ The data was collected was matched with satellite imageries for classification of forest communities and also measure the stand structure details to trek the changes in timberline forest community and predict vulnerability status of different tree species. ▪ Carry out Ecological survey of alpine timberline ecotone in Uttarakhand and Himachal Pradesh ▪ Baseline data collection for faunal and floral bio diversity of the area. ▪ Assessment of the community structure of timberline forest in western Himalaya ▪ Assessment vulnerability of different species of trees at timberline to climate change. ▪ Assessment of biotic pressures on timberline across the western Himalaya. ▪ Preparation of final report.
February 2006 – January 2008	Wildlife Institute of India	India	<ul style="list-style-type: none"> ▪ The proposed project was the first ecological study on Himalayan Brown Bear population in Kugti wildlife sanctuary Himachal Pradesh. The study included food habits of bears, biotic pressure on habitat, hibernation activities, and ecological assessment of habitat and livestock depredation problems.

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			<ul style="list-style-type: none"> ▪ Carry out Ecological Assessment of alpine habitat of brown bears inside Kugti wildlife sanctuary. ▪ Baseline data collection for faunal and floral assessment of the area. ▪ Assessment of the Threatened and Vulnerable status of bears in the project area. ▪ Assessment of food habits of brown bear. ▪ Assessment of biotic pressures on brown bears. ▪ Preparation of final report.

Expert' s information:	
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