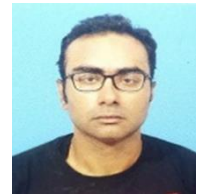


PUSHKAL BAGCHIE

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Statement of Purpose:

I am a highly motivated individual driven to innovate technologies which aim at environmental preservation through speeding up and stabilizing the process of sequestration of Carbon through afforestation/reforestation and agroforestry. I have 15 years of work experience ranging a wide spectrum including agroforestry research and conservation, environmental and biodiversity management, remote sensing and GIS, science communication and wildlife conservation & management.

After completing my bachelor's in forestry from North Eastern Regional Institute of Science and Technology (NERIST), in 2009 I was selected by Indian Council for Forestry Research and Education (ICFRE) and completed my post-graduation in Forestry from Forest Research Institute (FRI), Dehradun. Currently, I am pursuing PhD in the field of renewable energy management.

One of my personal values and highest priorities is to serve my community through environment preservation. I believe in being a supporter and driver of positive change for the next generation and that fuels me to serve society.

I am passionate about leading and innovating at the intersection of biology and engineering and firmly believe that all innovation comes out of the cutting edge of science. I have worked in many organizations with different projects and with a variety of people. I welcome challenges in the abovementioned fields and wish to make a difference.

I am confident that I will be able to integrate seamlessly with project objectives and deliverables which concentrate around project design and implementation. I have knowledge about building stakeholder partnerships and engagement. I am capable of monitoring, reporting and verification, capacity building and training and project management and coordination.

I have a good knowledge about natural resources management and value chain including agroforestry as these topics forms a part of my previous work profile requirements and these were subjects which I have studied during master's in forestry.

I have proven to be effective in community and stakeholder mobilization since 2015 onwards as major part of my work were around dissemination of awareness and technology to stakeholders or community.

I have good budget management skills and analytical skills. I have good communication skills and I am efficient in evaluating project growth and delivering project deliverables within stipulated time frame.

I am a well-balanced individual who aims to work on an inter-disciplinary mode because I know that all innovations are formed at the cutting edge where multiple disciplines meet and interact. Hence I have also devoted my interests across many disciplines such as Agro-forestry, Agriculture, Remote sensing and GIS, Biotechnology, Education, wildlife ecology and natural resource management.

Bio data

EDUCATION

Level of Education	Board/University	Institute	Year	%
Doctor of Philosophy (PhD) (Part time for working professionals)	North Eastern Regional Institute of Science and Technology (NERIST)	North Eastern Regional Institute of Science and Technology (NERIST)	2022-continuing	Synopsis submitted
M. Sc. Forestry (2 years)	Forest Research Institute University	Forest Research Institute University (FRI)	2009	71
B. Sc. Forestry (4 years)	North Eastern Regional Institute of Science and Technology (NERIST)	North Eastern Regional Institute of Science and Technology (NERIST)	2007	78
High Secondary School Leaving Certificate Examination (HSSLCE)/ 10+2	Assam Higher Secondary Education Council (AHSEC) Guwahati	Deshabandhu Vidyapeeth Higher Secondary School, Hojai, Assam	2002	65
High School Leaving Certificate Examination (HSLC)/ Matric.	Board of Secondary Education (SEBA) Guwahati.	Don Bosco High School, Hojai, Assam.	2000	73

ACHIEVEMENTS:

- 1) **UGC NET** qualified in **Environmental sciences**.
- 2) Paper published on, "**Present distribution, population status, and conservation of Western Hoolock Gibbons *Hoolockhoolock* (Primates: Hylobatidae) in Namdapha National Park**" India. *Journal of Threatened Taxa* 1(4): 203-210 (2008).
- 3) Technical report published on the estimation of tiger population in India titled, "**Status of Tigers, Co-predators and prey in India, 2010**" under the aegis of Wildlife Institute of India.
(http://www.wii.gov.in/images/publications/researchreports/2011/tiger/staus_tiger_2010.pdf)
- 4) Publication of the First Record of **Albino Sambar Rusa Unicolor (Kerr)** from **Corbett National Park**, India, manuscript **J3323** published in the Journal of the Bombay Natural History Society of serial number **JBNHS 107(3)** (2010)
(https://www.academia.edu/12969986/The_First_Record_Of_Albino_Sambar_Rusa_Unicolor_Kerr_From_Corbett_National_Park_India)

- 5) Technical report published on the “**Micro-level monitoring of veterinary use of Non-Steroidal Anti Inflammatory drugs (NSAID)/Painkiller use and its distribution around select vulture sites**” under the aegis of Bombay Natural History Society.
https://www.academia.edu/13067475/Micro-level_monitoring_of_veterinary_use_of_NonSteroidal_Anti_Inflammatory_drugs_NSAID_Painkiller_use_and_its_distribution_around_select_vulture_sites

WORK EXPERIENCE (Total Experience:15 years)

- 1) I have worked as **State Associate and District Head** with **Center for International Forestry Research (CIFOR)-International Centre for Research in Agroforestry (ICRAF)** also known as “**World Agroforestry**” in the national program called “**Trees outside Forests in India Program (ToFI)**”. In this program we are trying to increase the extent of trees outside of legal forest areas through agroforestry and commercial forestry interventions. *August 2022 to April 2024*
- 2) I was working at **North Eastern Space Applications Centre (NESAC)**, Umiam, Meghalaya under Indian Space Research Organisation (ISRO), as **Project support staff** in Forest Working Plan Project in which I have worked on estimating above ground carbon stocks of forest divisions of Arunachal Pradesh. I have simultaneously worked on Forest fragmentation of Mizoram, shifting cultivation area assessment of Mizoram. *August 2021 to August 2022.*
- 3) I had worked as **Geographical Information Systems (GIS) technician** in the **Compensatory Afforestation fund Management and Planning Authority (CAMPA) Project** with the Forest Department, Arunachal Pradesh. I was posted at Divisional Forest Office, Social Forestry Division, Tawang. I helped the department with GIS related aspects for raising plantations as compensatory afforestation against forest diversion developmental projects. *August 2019 to July 2021.*
- 4) I had been managing and teaching in **Morning Glory English School, Hojai, Assam, India** (non-profit), teaching Biology and trying to inculcate an interest and a respect for wildlife and environment conservation among the students of Classes 8, 9 and 10. *July 2018 to August 2019*
- 5) I have worked as **Teacher Educator/Resource Person** with **Azim Premji Foundation** where my job entailed imparting training to Government teachers and also teaching students (Class 1 to 10). I worked as a science resource person and I have considerable experience in science communication including teaching science to secondary and higher secondary level students. My job also included making teaching and learning materials and introducing activity based learning in government schools. *July 2017 to July 2018*
- 6) I have been managing and teaching in **Morning Glory English School, Hojai, Assam, India** (non-profit), teaching Biology and trying to inculcate an interest and a respect for wildlife and environment conservation among the students of Classes 8, 9 and 10. *January 2015 to June 2017.* I hope of becoming an agent of social change where I can be a part of a process where no child will remain uneducated and underprivileged.

- 7) Founder of **Green Assam Movement** (a voluntary non-profit citizen's initiative) where I am presently involved in raising plantations of various medicinal, fruit bearing and shade trees along roadsides, in schools and colleges, in government and private owned lands through mobilizing community and also organizing environmental awareness campaigns in schools and colleges. The future protection of saplings is to be provided by the community who will be the sole guardian and owner of the trees and of the benefits that they will provide.
January 2014 to January 2015
- 8) I have worked at **Zoological Garden, Alipore**, Kolkata as **Scientific Officer**. I have experience in handling, feeding and rehabilitation of animals and wild faunal husbandry related issues pertaining to work in zoos. *December 2013 to December 2014*
- 9) Voluntary Survey on **Fishing cats** in **Kolkata Wetlands**. *2013*
- 10) Work experience as **Project Fellow** at **Mizoram University**, Aizawl in the project '**Ecology of Primates and their habitat characterization in Mizoram**' (DST sponsored project). *October 2012 to October 2013*
- 11) Worked as **Research Personnel** in the MoEFCC and BNHS sponsored 6-month project titled, "**Micro-level monitoring of veterinary use of Non-Steroidal Anti Inflammatory drugs (NSAID)/Painkiller use and its distribution around select vulture sites**" under the supervision of Dr Nita Shah. Experience in conducting village level interviews and socio economic surveys. *2011 - 2012*
- 12) Work experience as Research Personnel at the **Wildlife Institute of India, Dehradun**, in the project, "**Monitoring Tigers, co-predators, prey and habitat**", a project sponsored by the National Tiger Conservation Authority (NTCA) and carried out by the Wildlife Institute of India. I have practical experience in estimating tiger, leopard and prey densities in Corbett Tiger Reserve using Mark-Recapture framework and distance sampling. *December 2009 to August 2011*
- 13) Have worked for **PETA (People for the ethical treatment of animals)** as **Investigator** and have done undercover **investigation, rescue and rehabilitation of animals** in illegal circuses. Have done investigations for detecting animal cruelty (in the form of animal sacrifices) in many temples.

SKILLS

- 1) Experience in working and mobilizing community and inculcating responsibility towards environmental preservation, raising agro-forests and micro forests.
- 2) Innovating cheap and environmentally sustainable technological solutions for rural population
- 2) Experience in working with GIS Software such as ARC GIS, Q-GIS, ERDAS, GRASS
- 3) Experience in teaching biology to students of classes 8, 9 and 10 (Science communication)

- 4) Experience in technical knowledge and field work of camera trapping.
- 5) Experience in studying population size and densities of large carnivores.
- 6) Experience in studying ungulate densities.
- 7) Experience in handling software such as CAPTURE, DENSITY, DISTANCE and PRESENCE.
- 8) Experience in behavioral studies of primates.
- 9) Computer skills: Microsoft Excel 2016, Microsoft Word 2016, Microsoft PowerPoint 2016, Microsoft Publisher 2016

ADDITIONAL EXPERIENCE

- 1) Hands-on training program on the basics of Bioinformatics from Guwahati Biotech Park and Science Technology and Climate Change Department, Government of Assam
- 2) Remark Skill Technical Workshop on Ethical Hacking in Association with Alcheringa, IIT Guwahati
- 3) Certificate Course on Basics of Remote Sensing and GIS from North Eastern Space Applications Centre, Meghalaya and Assam Survey & Settlement Training Centre, Guwahati.
- 4) Workshop on Advanced Molecular Biology conducted by Guwahati Biotech Park and SHRM Biotechnologies, Kolkata
- 5) Nature Orientation Course at Poba Reserve Forest by Nature's Beckon
- 6) Nature Camp in Dehing Patkai Wildlife Sanctuary organised by Aaranyak
- 7) National Seminar on Bio resources, habitat threats, conservation strategies and sustainable development conducted by Hojai College (now Rabindranath Tagore University, Hojai)
- 8) Participated in Young Ecologists Talk and Interact (YETI) at Indian Institute of Science, Bangalore
- 9) Diploma in Computer Applications from Softech Solutions, Hojai.

LANGUAGES KNOWN

English, Hindi, Assamese, Bengali, German, latin (elementary)

OTHER INTERESTS

Playing the Guitar, composing music, running, working in the forest, numismatics, trekking, hiking, mountain climbing. I also maintain a blog (<http://pushkalbagchie.blogspot.com/>)

PushkalBagchie
24-5-2024