

Present position

- **Assistant Professor**

Contact Details (Mention e-mail) – fergusson.edu or despune.org



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Work Experience

- **Teaching: 15 years**
- **Research/Industrial: 8 years**

Personal Profile

I did my B.Sc in Chemistry (2006) and M.Sc in Environmental Science (2008) from Shivaji University Kolhapur. I qualified NET and SET in 2008 and joined Fergusson College in 2009, since then I have been working here as Assistant Professor till date. I teach Ecology, Wildlife biology and Remote Sensing & GIS at UG as well as PG classes. I received Remote Sensing & GIS training from NRSC, ISRO in 2012. I completed a BCUD minor research project during 2012-2014. Then from 2010 to 2019 I completed my Ph.D from SPPU and have conducted part of my doctoral research at Edward Grey Institute of Field Ornithology, University of Oxford, UK.

Course(s) Taught (Only Titles)

1. Ecology and Ecosystem
2. Wildlife biology and Conservation
3. Remote Sensing and GIS
4. Environmental Ethics

Field of Specialization/Areas of Interests

- Disturbance Ecology
- Terrestrial Ecology
- Habitat Assessment
- Environmental Impact Assessment (EIA)
- Remote Sensing and GIS

Education

- **Ph.D. – (Environmental Science): from 2010 to 2019**

- **Title of the Thesis:**

Impact of landscape disturbance on composition and diversity of bird communities in Western Ghats of Maharashtra.

Name of University: Savitribai Phule Pune University, Pune

Institution (Research Centre): Department of Environmental Science, Fergusson College (Autonomous) Pune

Year of Award: 2019

- **Master of Science/Arts- (Environmental Science):** 2008, Shivaji University Kolhapur.

- **Bachelor of Science- (Chemistry):** 2006, Yashwantrao Chavan College of Science, Satara, affiliated to Shivaji University Kolhapur

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| Fellowship/Awards/ Certifications/Achievements/Recognitions |
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N.A

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| Member of College Committees/ Professional Bodies and Others |
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| College Level | Professional Bodies | Others |
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| <ul style="list-style-type: none"> • Admission Committee | | Member BoS for UG and PG environmental Science |
| <ul style="list-style-type: none"> • Examination Committee | | |
| <ul style="list-style-type: none"> • Nature club | | |
| <ul style="list-style-type: none"> • NAAC criteria 7 | | |
| <ul style="list-style-type: none"> • Member for Climate Reality project | | |
| <ul style="list-style-type: none"> • Member for all departmental activities and programs | | |

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| Employment History |
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Example:

1) **Organization** : -----

Role : -----

Duration : -----

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| Responsibilities | <ul style="list-style-type: none"> • . • . |
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2) **Organization** : -----
Role : -----
Duration : -----

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| Responsibilities | <ul style="list-style-type: none"> • . • |
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Research Projects

| Title of the Project | Name of Funding Agency | Amount (Rs) | Duration (Year) (From To) | Type (Minor/Major) | Outcome |
|---|-------------------------------|--------------------|----------------------------------|---------------------------|--|
| Study of present composition and diversity of Lizards in Mulshi | BCUD | 225000 | 2012 -2014 | Minor | Recent Checklist was produced Rare and range restricted species were identified. Threats to Lizards were notified. |

Research Publications in National and International Journals

- Vinayak D. Chavan., Abundance and diversity of avifauna in Tamhini village, Mulshi, Pune. Proceedings of national workshop on statistical application, Fergusson College, **March- 2012**, pg. 33-41
- Vinayak D Chavan and Subhash Mali, 2017. Status of bird communities In Tamhini wildlife sanctuary, northern Western Ghats, Maharashtra, India. Journal of Threatened Taxa.
- A. N. Nerlekar, Snehangshu Das, A.A. Onkar, M. Bhagwat, P. Mhaisalkar, S. A. Lapalikar, **Vinayak D. Chavan** and M.C. Mahajan, 2019. India needs long-term biodiversity monitoring in urban landscapes. CURRENT SCIENCE, VOL. 117, NO. 2.
- Vinayak D Chavan, 2020. Response of birds to Urban Sprawl: A case study of Khadakwasla region, Pune. Ela journal of Forestry and Wildlife. (submitted).

Participation in Conferences/Seminars/Symposia/Workshop:

- Current status of migratory birds, their habitat and conservation issues at selected sites in Pune, BEM, SriLanka, 2021.
- Student Conference in Conservation Science at **University of Cambridge, United Kingdom**, 22-24 March 2016.

- Student Conference in Conservation Science at **IISc, Bangalore**, 2014.
- International Conference on **Biodiversity Asia by SCB**, Bangalore, 2012.
- Workshop on Camera Trapping, SCCS, University of Cambridge, UK, March 2016
- Workshop on Designing a research project, SCCS, University of Cambridge, UK, March 2016
- Using Statistics, SCCS, University of Cambridge, UK, March 2016
- Workshop on Scientific Writing, SCCS, IISc, Bangalore. Aug. 8, 2014
- Workshop on Measures of Micro diversity organized, IISc, Bangalore. Aug. 9, 2014
- Workshop on Using R software organized by SCCS, IISc, Bangalore. Aug. 10, 2014
- Workshop on Arc GIS Modeling, IISc, Bangalore, Aug., 2012.
- Workshop on Road Ecology, IISc, Bangalore, Aug. 2012.
- Seminar on Biodiversity and Mining, YASHADA, 2011.
- Workshop on Forest Resources and Sustainability, Symbiosis college, Pune. 2011
- Workshop on Environmental economics, VSI, Pune, 16-17 Feb. 2009.
- Applications of RS and GIS in Globalised world, Kirti College Mumbai, 3-4 April, 2009.

Events Organized/Coordinated:

| Sr. No | Name of the Event | Name of organizing Institute/ College/ University | Nature of contribution | Dates |
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| 1 | Tree plantation Drive | <p>College has a very rich Botanical Garden in terms of unique species.</p> <p>Around 150 different plant species have been planted in college campus</p> <p>Including the Botanical Garden. Care has been taken in selection of the species; all species planted are native which will support the other Biodiversity inhabiting the campus.</p> | Member of tree plantation coordination committee | 12th July 2017. |
| 2 | Watershed Management workshop | Under the College with Excellence program in association with ACWADAM, Pune two days' workshop on Watershed Management was | Coordinated the workshop | 9th .10th February 2018 |

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| | | <p>organized for MSc students. Students benefited from the</p> <p>Workshop through various case studies and practical's conducted during the workshop.</p> | | |
| 3 | Kirloskar Vasundhara International Film Festival | <p>Under Kirloskar Vasundhara Film Festival number of documentaries was screened followed by discussion on various issues of Environment and protection.</p> | Coordinated activities at college level | January 2017 |
| 4 | A River walk | A River walk has been organized by the Department in association with Jeevitnadi, Pune under Kirloskar Vasundhara Film Festival for school children. Students from Ahilyadevi, New English School Tilak Road actively participated in a walk to understand cultural, social, Environmental aspects of the River Ecosystem. | Participated the activity | |
| 5 | National Science Day | MSc I students of the Department have conducted discussion sessions on Environmental Science, an Interdisciplinary branch of science for 7 th standard students of Ramanbaug High School, Pune. | Coordinated the activity | 28 th February 2018 |
| 6 | F.Y.B.Sc Excursion to Ujani, Baramati | Student's Study visit was organised to Ujjani, Baramati, Pune, for study of wetland bird communities. | Coordinated the study visit | 15 th February 2018 |
| 7 | Tree plantation Drive: | Around 150 different plant species have been planted in college campus Including Botanical Garden. | member of tree plantation committee | 12th July 2018 |

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| 8 | Entrepreneurship Development Workshop | Under DBT Star College Scheme workshop was conducted by Dr. Adesh Gokhale Council Member DES on start-up program for Entrepreneurship Development on | Coordinated the activity | 18 th August 2018 |
| 9 | Green Economy Workshop | Under DBT Star College Scheme workshop was conducted by Dr. Gurudas Nulkar Head, Ext-MBA Symbiosis International University, Pune on Green Economy on was organized for MSc students in Department of Environmental Science. | Coordinated the activity | 29 th August 2018 |
| 10 | Best Practices in Waste Management workshop | Under DBT Star College Scheme workshop was conducted by Mr. Shrikant Parab Director, Asia Affairs, Delta Group, USA on Best Practices in Waste Management was organized for students in the Department of Environmental Science. | Coordinated the activity | 30 th August 2018 |
| 11 | Film Screening and Interaction with S. Nalla Muthu | Interaction was organized with the director of the film Clash of Tigers on Teachers and students of other colleges along with Fergusson College students involved in the program. | Coordinated the activity | 2 nd January 2019. |
| 12 | River Ecology Workshop | Under DBT Star College Scheme Workshop was conducted by Oikos, Pune on River Ecology on was organized for students in the Department of Environmental Science. | Coordinated the activity | 7 th January 2019 |
| 13 | Biodiversity Conservation: Issues and Solutions Seminar | Under DBT Star College Scheme conducted Seminar by Dr. Madhukar Bachulkar Cholekar Principal Vijay Singh Yadav Science College; Kolhapur on Biodiversity Conservation: Issues and Solutions | Coordinated the activity | 8 th January 2019 |

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| 14 | Hydrogeology Workshop | Under DBT Star College Scheme conducted Workshop was conducted by Dr. Chris Bradley Senior Lecturer School of Geography, Earth and Environmental Sciences University of Birmingham UK on Hydrogeology on was organized | Coordinated the activity | 8 th January 2019 |
| 15 | Climate Change Workshop: | Under DBT Star College Scheme Workshop was conducted with Professor John Bull Associate Professor (Senior Lecturer) in Pollution Ecology, School of Geography, Earth and Environmental Sciences, University of Plymouth on Climate Change on was organized for students | Coordinated the activity | 17 th January 2019 |
| 16 | Bioremediation of Toxic wastes Workshop: | The DBT Star College Scheme seminar was conducted by Dr. Yogesh Patil Professor and Head Research and Publication Symbiosis International University, Pune on Bioremediation of Toxic wastes was organized for students. | Member of the committee in coordinating the activity | 22 nd January 2019 |
| 17 | Colloquium on Sacred Groves | In association with Maharashtra Vriksha Samvardhini has been conducted on Commonwealth Award winning Documentary screening "Sacred Groves: Traditional treasure-trove of Environment" has been done. Number of NGOs from Pune and Mumbai area have been involved. | Activity coordinator | 11 th February 2019 |
| 18 | Environment Day Celebration: | College has participated in events organized by Pune Municipal Corporation on World Environment Day. It includes Cycle Rally, awareness campaigns, plantation drive. For the event this year many government and other officials were present. | Coordinated the activity | 5 th June 2019 |
| 19 | Tree plantation drive | Plantation drive was conducted in Fergusson College campus and Fergusson hill. This drive was organized in association with Pune Municipal Corporation. | Member of tree plantation committee | 1 July 2019. |

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| 20 | Kirloskar Vasundhara International Film Festival: | 1. Ramnadi Parikrama 2. Ramnadi Yuva Sansad. | Participated | 14/9/2019 27/7/2019 |
| 21 | Beat the Plastic Pollution: | Under Kirloskar Vasundhara Film Festival in association with Terre Policy Center, awareness programs on Plastic Pollution have been organized. have given a talk on Micro plastics and Consequences of Plastic Pollution. | Coordinated the activity | 4/1/2020 |
| 22 | Wild India Film Festival | A film festival organized by Fergusson College in association with Nature Walk, Adventure Foundation from 22 to 25 Aug 2019. Dhritiman Mukherjee followed by a award winning film screening. | Coordinated the activity | 22 to 25 Aug 2019. |
| 23 | Plastic free campus | To aware the masses about plastic pollution collection drive and awareness activities like flash mob on song in front of main building, Kirloskar Vasundhara International film festival in Balgandharva Rangmadir, JM Road on 7 th January 2020 have been performed by students | Coordinated the activity | 2 nd Oct 2019 and during |
| 24 | Life Cycle Assessment | In association with Sharada Shakti, a session has been organized. Students learned the basics of Life Cycle Assessment as well as calculating Ecological Footprint at the individual level. | Coordinated the activity | 2/8/2019 |
| 25 | Climate Reality program | Under Climate Reality Program on an interaction with has been organized to discuss various policy interventions to be made to make college more sustainable and Eco-friendlier | Coordinated the activity | 14/12/2019 |

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| 26 | Conservation dynamics in Central India Tiger Reserves | An interaction has been organized. Students benefited by the interaction in terms of various techniques used by Madhya Pradesh Forest Department in Tiger Conservation. | Coordinated the activity | 7/12/2019 |
| 27 | Western Ghats and its Ecosystem | An invited talk on Lesser-Known Ecosystems has been successful towards making students aware about various neglected ecosystems of Western Ghats like Rock outcrops and their conservation issues. | Coordinated the activity | 16/9/2019 |
| 28 | Maharashtra Star rating program | An interaction was fruitful in understanding Air pollution scenario in Indian cities and the role of common citizens towards the pollution tolerance. | Coordinated the activity | 18/7/2019 |
| 29 | The Climate Reality Project | Sessions on solar Energy, Biodiversity Conservation, Rainwater Harvesting etc conducted Green Schools of the Future for the master trainers. Further, these experts have been connected to master trainers through online platforms and offline interactions as and when requested by individual institutions. | Coordinated the activity | 6th July 2019 |
| 30 | Master's Training Program on Green Campus | A training was organized to train the team leaders from various schools from Deccan Education Society. | | 25 th and 26 th September 2019 |
| 31 | Study Visit to Uttarakhand | Students visited a forest to study ecotourism and forest research institute | Coordinated the activity | |
| 32 | Biodiversity of India | Students learned about the importance of Biodiversity of India | Coordinated the activity | 5th October 2020 |

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| 33 | Interaction with Alumni fellowship opportunities in the Environmental field | She also talked about various fellowship opportunities in the Environmental field including SPARK Fellowship by BAIF. | Coordinated the activity | 19th Feb 2021 |
| 34 | Session on wetland day | Students understood wetlands of Pune and their importance | Coordinated the activity | 3rd February 2021 |
| | Session on Hydroponics | Students understood the technique of Hydroponics | Coordinated the activity | 11th Feb 2021 |
| 35 | World Meteorological Day | Students learned about the concept of “Climate Crisis : Action Begins Now” | Coordinated the activity | 23rd march 2021 |
| 36 | Pune City Air Action Plan | Students learned about the air pollution monitoring of Pune City | Coordinated the activity | 9 th march 2021. |
| 37 | Environmental Sustainability and Resilience in the context of Sustainable Development Goals | Students learned about Sustainability and what strategies are needed to achieve SDGs | Coordinated the activity | 25th March 2021. |
| 38 | Interaction with Alumni: Meet a friend | Students interacted with alumni and learned about aspects of wastewater treatment | Coordinated the activity | 17th July 2021 |

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| 39 | Moth Week | Students learned about How every student can participate and contribute in data collection | Coordinated the activity | 24th July 2021 |
| 40 | Spider Week | During the five days 20 species of spiders have been identified and documented. | Coordinated the activity | 14th to 22nd August 2021 |
| 41 | Interaction with Alumni Tracking illegal wildlife crime | Students understood pros and cons of wildlife crime and how to track these illegal activities | Coordinated the activity | 15th December 2021. |
| 42 | Big Butterfly Month | On this occasion students of the Environmental science department conducted a Butterfly Survey of Fergusson College Campus | Coordinated the activity | September 2021 |
| 43 | Ban on Single use Plastic | The purpose of the event was to propose Fergusson College to initiate activities to ban Single Use Plastic in the Campus and declare it as 'First College to Ban Single Use of Plastic' by adopting authenticated verification methods. The college is continuing to make efforts to remain a Single Use Plastic Free Campus. | Member of the coordinating committee | 11 th October 2021 |
| 44 | Metal bottle for my friend | To avoid the use of plastic bottles on 29th October 2021 metal bottles were distributed among the workers. | member of the organizing committee | 29th October 2021 |
| 45 | Nadi ki Pathshala | The program was organized in association with Vanrai, Jal Biradari, College of Agriculture, Pune, College of Agriculture Rahuri and Yashada, Pune, | Coordinated the activity | 28th March 2022 |

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| | | The course focuses on understanding the river Ecology and managing our rivers accordingly. | | |
| 46 | International Conference on Biodiversity and Environment Management | Department has organized International Conference on Biodiversity and Environmental Management (BEM) in association with the Academic Partners, Centre for Sustainability, Department of Forestry and Environmental Science, University of Jayewardenepura, Sri Lanka and Deccan Education Society's Fergusson College (Autonomous) Pune, India on was organized on 12th -13th November 2021 (online) has laid foundation of conscious thinking and living a sustainable life. | Coordinated the activity | 12 and 13 November 2021, online |
| 47 | Workshop on sustainable and Eco-friendly products | Under STRIDE (Component I) workshop was organized on eco-friendly products to make students aware about the opportunities on designing and developing eco-friendly products. | Coordinated the activity | 6 th May 2022 |
| 48 | World Environment Day 2022 | Observance of World Environment Day was organized on the topic Climate change and Role of youth in Tribal areas. | Coordinated the activity | 5 th June 2022 |

Additional skills/Activities

Environmental Monitoring for all components of the environment.

Course Content Developed (e-content)

NA

Consultancy Services

NA