




Faculty Details proforma

Title	Dr.	First Name	Swati	Last Name	Diwakar	Photograph
Designation		Assistant Professor				
Address		Lab # 309, USIC Building University of Delhi Delhi-110007				
Phone No Office		011-27667125				
Email		sdiwakar@eb.du.ac.in				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Indian Institute of Science, Bangalore			2008	
PG		Jawaharlal Nehru University, New Delhi			2001	
UG		Delhi University			1999	
Career Profile						
<ul style="list-style-type: none"> • 2010-Present: Assistant Professor, Department of Environmental Studies, Delhi University • 2008-2010: Visiting Faculty, Indian Institute of Science Education and Research Bhopal 						
Administrative Assignments						
<ul style="list-style-type: none"> • 2015-2016: Member, Departmental Research Committee, Department of Environmental Studies • 2012-2017: Member, Administrative committee, Department of Environmental Studies • 2012-2016: Member, Annual Flower Show organizing committee • 2013-2015, 2018-: Member, Committee of Courses, Department of Environmental Studies • 2015: Member, Faculty of Science • 2010-2012: Resident Tutor, University Hostel for Women 						
Areas of Interest / Specialization						
Bioacoustics, Behavioral and community ecology of Invertebrates, Tropical forests and biodiversity conservation						
Subjects Taught						

Co-Instructor for M.Sc./M.A Environmental Studies in Delhi University for the following courses:

- Paper-1: Introduction to Environmental Sciences (2011, 2014-2015)
- Paper-4: Methodologies for Environmental Studies (2010-2016)
- Paper-6: Environmental Pollution and Health (2015)
- Paper-8: Natural Resources: Conservation and Management (2011- 2015)
- Paper-9: Atmosphere and Global Climate Change (2010, 2015-2017)
- Paper-11: Biodiversity and Conservation Biology (2014, 2016)
- Paper-17: Natural Resources Conflicts and Choices (2010-2016)
- Paper-19 M.A: Global Environmental Issues (2011)
- Paper-19 M.Sc: Systems analysis and Modeling (2016-2017)

Graduate Student Instructor in IISER Bhopal:

- EES 101: Environmental Science for Non-majors (2009, 2010)
- BIO 202: Evolutionary Biology and Ecology for Non-majors (2010)

Research Guidance

Supervision of Doctoral Thesis, under progress: Four

Publications Profile

Research papers published in Refereed/Peer Reviewed Journals

- Tiwari, C and **Diwakar, S.** 2018. Singers in the grass: call description of conehead katydids (family: Tettigoniidae) and observations on avoidance of acoustic overlap. Bioacoustics (in press)
- Sunny, A., **Diwakar, S.** and Sharma, GP. 2018. Interactions between non-native plants and native insects: research gaps. Current Science 114 (4), 729
- Tomar, M., Singh, A.P. and **Diwakar, S.** 2017. Bioacoustics or pitfall traps: Comparison of a modern and a traditional method to estimate Ensifera richness. Current Science 113 (4), 561.
- Sunny, A., **Diwakar, S.**, & Sharma, G. P. 2015. Native insects and invasive plants encounters. Arthropod-Plant Interactions, 1-9
- Jain, M., **Diwakar, S.**, Bahuleyan, J., Deb, R., Balakrishnan, R. 2014. A rain forest dusk chorus: Cacophony or sounds of silence? Evolutionary Ecology 28(1): 1-22.
- **Diwakar, S.**, Jain, M. & Balakrishnan, R. 2007. Psychoacoustic sampling as a reliable

non-invasive method to monitor orthopteran species diversity in tropical forests. *Biodiversity and Conservation* 16:4081-4093.

- **Diwakar, S.** & Balakrishnan, R. 2007. Vertical stratification in an acoustically communicating ensiferan assemblage of a tropical evergreen forest in southern India. *Journal of Tropical Ecology* 23:479-486.
- **Diwakar, S.** & Balakrishnan, R. 2007. The assemblage of acoustically communicating crickets of a tropical evergreen forest in Southern India: call diversity and diel calling patterns. *Bioacoustics* 16:113-135.
- **Diwakar, S.** & Balakrishnan, R. 2006. Male and female stridulation in an Indian weta (Orthoptera: Anostomatidae). *Bioacoustics* 16:75-85.

Other publications

- **Diwakar, S.**, Jain, M. & Balakrishnan, R. 2012 'Sense and Census ability'- reliability of Psychoacoustic sampling as a method to monitor cricket species diversity. Proceedings of 22nd International Bioacoustics Council meeting published in *Advances in Bioacoustics-IV*. *Bioacoustics* 21:1,57

Publications in the Last one year

- Tiwari, C and **Diwakar, S.** 2018. Singers in the grass: call description of conehead katydids (family: Tettigoniidae) and observations on avoidance of acoustic overlap. *Bioacoustics* (in press)
- Sunny, A., **Diwakar, S.** and Sharma, GP. 2018. Interactions between non-native plants and native insects: research gaps. *Current Science* 114 (4), 729

Conference Organization/ Presentations (in the last three years)

1. *Participation as Plenary speaker*

- **Diwakar, S.** 2017. "Katydid Country: Acoustic diversity of Katydid from North Eastern India". International Conference in Zoological Sciences, Punjabi University, Patiala (October 2017)

2. *Participation as Paper Presenter*

- Tomar, M and **Diwakar, S.** 2017. "Acoustic diversity of field crickets from India (Infraorder: Gryllidea)." 16th Invertebrate Sound and Vibration Meeting, Castle of Rauschholzhausen, Giessen, Germany (ISV 14-17 September, 2017).

- Tiwary, C. and **Diwakar, S.** 2017. “Katydid country: Tettigoniid community description of Gibbon Wildlife sanctuary, Assam”. XXVI International Bioacoustics Congress, Haridwar organised by Gurukul Kangri Vishwavidyalaya. October 8-13 2017
 - “Preliminary observations on Indian Wetas vocalizations” ENCON 2017 New Delhi, India
 - “Katydid of North-East: The new frontiers of Bioacoustics” ENCON 2017 New Delhi, India
 - “Invasive plant-native insect interaction research in India: a bibliometric analysis” *Tropical Ecology Conference 2014*, New Delhi, India
 - “Do species with high temporal or spectral overlap in acoustic signals avoid calling together? Insights from an assemblage of rain forest crickets and katydids” *Acoustics 2013*, New Delhi, India
3. *Organization of a Conference*
- Member, Local organizing committee, Tropical Ecology Conference 2014, December 10-12, New Delhi

Research Projects (Major Grants/Research Collaboration)

- 2016: National Geographic Conservation Trust Grant project entitled, “Wetas: [search for the lesser known and elusive insects in India](#)”
- 2014-present: Co-PI in DST-DU PURSE Grant project entitled, “Insect herbivores on an invasive plant (*Hyptis suaveolens*): A case of host shift, ecological fitting or a n evolutionary trap?”
- 2013-2016: Principal Investigator in Science and Engineering Research Board, DST funded project entitled, “Weta in India: acoustic communication, systematics and behavioral ecology.”

Awards and Distinctions

- IISER Bhopal Academic Senate appreciation for excellence in teaching for the academic year 2009-10.

Association With Professional Bodies

Reviewing: Journal of Herpetology, Current Science, DU Journal