

SNEHANGSHU DAS

Curriculum vitae

Date of Birth: 25th March 1997

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RG profile: https://www.researchgate.net/profile/Snehangshu_Das

Google Scholar citations: 2
Google Scholar h-index: 1



EDUCATION

MSc	Botany University: Shivaji University, Kolhapur Score: 82.27%	November 2020
BSc	Botany Fergusson College, Pune University: Savitribai Phule Pune University Project: "Talking about Beans, Bananas and Biocrimes: Colour, Concentration and India's Outlook on Ricin" Score: 81.60%	June 2018
AISSE (12th)	All India Senior School Certificate Examination Delhi Public School, Siliguri Board: CBSE Score: 91.33%	May 2015
AISSE (10th)	All India Secondary School Examination Delhi Public School, Siliguri Board: CBSE CGPA: 9.8/10	May 2013

RESEARCH INTERESTS

Botany, plant ecology and taxonomy, ecological niche modelling, GIS & RS, conservation science, urban biodiversity

SKILLS

Laboratory Skills: Spectrophotometry, Titrations, Ultracentrifugation, Thin Layer Chromatography

Software: GitHub, QGIS (2.14, 3.0 & higher), MaxEnt, R (basic level usage), DIVA-GIS, Google Earth Pro, Minitab 18, Statistica and PAST with proficiency in **Multivariate Statistical Tools.**

INTERNSHIP

CSIR-North East Institute of Science and Technology, Jorhat, Assam

Tenure: June-August 2020

Supervisor: Dr. M. Arunjit Singh and Dr. Salam Sonia Devi

Project: “Familiarizing local plants (genus *Ceropegia* L.) and tapping its present and future potential habitat areas in India.”

Insight: Using the techniques of ecological niche modelling and data obtained from biodiversity databases (like iNaturalist, GBIF and many more), prediction regarding its potential habitats are being made. Also, a dedicated database for *Ceropegia* is being developed at GitHub, using which a webmap has already been published through the use of ArcGIS Online.

Salim Ali Centre for Ornithology and Natural History, Coimbatore, Tamil Nadu

Tenure: May-July 2019

Supervisor: Dr. Santanu Gupta

Project: “Ecological exploration and socio-economic valuation of pit lakes in Eastern coal fields, India: implications for conservation and sustainable use”

Insight: I have contributed in building species distribution models of certain local migratory bird species, vegetation quantification, studying change of vegetation using NDVI, map preparation of study areas and surveying socio-economic importance of the pit lakes.

ACHIEVEMENTS AND GRANTS

Awarded the Dr. G.V Joshi Gold Medal in MSc Botany at Shivaji University (2018-2020)

Insight: For being meritorious in the academic tenure of MSc Botany from 2018-2020

Awarded the Shivaji University Merit Scholarship (2019-2020)

Funds received: INR 10,000

Insight: For being meritorious in the year 2018-2019

Mini Project Scheme under Model for Arts and Science Teachers (MAST) Program for UG students under 'College of Excellence' 2017-18

Funds Received: INR 2,500

Project: ["Talking about beans, banes and biocrimes: Colour, Concentration and India's Outlook on Ricin"](#)

Advisor: Dr. Minakshi C. Mahajan

Insight: I extracted the highly poisonous protein Ricin according to *US Pat 3060165A* and noted down its color change and safe disposal methods. Also, I added a review on how it can be used as a futuristic biowarfare weapon by relating it to its uses in past instances as well as an overview of ricin uses in India.

PROJECTS UNDERTAKEN

Fergusson College Long Term Vegetation Monitoring Project, Pune

Tenure: June 2018 – Till present

Team: Ashish Nerlekar, **Snehangshu Das**, Akshay Onkar, Pranav Mhaisalkar, M. Bhagwat, S.A. Lapalikar and Dr. V.D. Chavan

Advisors: Dr. Harini Nagendra and Dr. Minakshi C. Mahajan

Insight: I am contributing in establishment and maintenance of 50 long-term vegetation transects for the subsequent 10 years with an analysis of the changes in campus biodiversity and functional traits over time with focus on fluctuations in the urban ecology context.

PUBLICATIONS

Published Booklet

Das, S., Mukherjee, A., Gupta S. 2020. [Plants From Pitlakes: An inventory of plants from Eastern Coalfields, India](#). Salim Ali Centre for Ornithology and Natural History, Coimbatore, India.

Published Papers

Das, S. & Mahajan, M. (2021). [Role of plants in a pandemic: learning from the COVID-19 situation](#). *Global Journal of Medical Research*. 20(14). p 43-51

Das S, Mukherjee A, Gupta S. (2020) [Spatial prioritization of selected mining pitlakes from Eastern Coalfields region, India: A species distribution modelling approach.](#) *Conservation Science and Practice*, 8(2), Wiley Online. e216.
<https://doi.org/10.1111/csp2.216>

Nerlekar, A.N., **Das, S.**, Onkar, A.A., Bhagwat, M., Mhaisalkar, P., Lapalikar, S.A., Chavan, V.D. and Mahajan, M.C. (2019). [India needs long-term biodiversity monitoring in urban landscapes.](#) *CURRENT SCIENCE*, 117(2), p.181.

Das, S. & Mahajan, M. (2020). [Numerical intraspecific morphometric study of Actinodaphne Hookeri Meisn. \(Magnoliopsida: Laurales: Lauraceae\) from Mahabaleshwar, Maharashtra, India.](#) *Ecology, Environment and Conservation*. 26(4). p 1775-1778

Mahajan, M. & **Das, S.** (2020). [Diversity and importance of the genus Ficus L. from an urban forest: The case study of Fergusson College Campus, Pune, India.](#) *International Research Journal of Environmental Sciences*. 9(4). p 74-79

Terdalkar, S., **Das, S.**, Patil, P. & Mahajan, M. (2019). [A comprehensive study of the relationship between Euploea core and Nerium indicum present in Fergusson College, Pune, India.](#) *International Research Journal of Biological Sciences* 8(1). p 27-31

Das, S. & Mahajan, M. (2019). [Talking about Beans, Bananas and Biocrimes: Colour, Concentration and India's Outlook on Ricin.](#) *Research Journal of Recent Sciences*. 8(2). 52-59.

Das, S., Patil, R. and Mahajan, M. (2018). [Numerical Taxonomy of the genus Euphorbia L. from Pune, Maharashtra, India.](#) *International Journal of Researches in Biosciences, Agriculture and Technology*. 2(6). 51-57.

Journal Papers/Abstracts under Review

Das, S., Mukherjee, A. and Gupta, S. (2020). India needs inventorisation of mining pit lakes. Submitted to: Current Science

PRESENTATIONS AND TALK

Power Point Presentation, "[Do Plants Show Primitive Neural Actions?](#)," *FLORA*, Fergusson College, Pune. 29th-30th December 2016.

Oral Presentation, "Plant Neurosciences and its Applications" *BOTANICA*, Nowrosjee Wadia College, Pune. 23rd-24th January 2017.

Student's Keynote Speech, "[Is Coral Bleaching reaching a tipping point?](#)," *Conference on Environment, Climate Change and Pollution*, Board of Student Welfare, Savitribai Phule Pune University and Sir Parshurambhau College, Pune. 6th-7th February 2017.

CERTIFICATE COURSES

Certificate in R Programming

KES' B K Shroff College of Arts & M H Shroff College of Commerce, Mumbai
(remotely hosted by Indian Institute of Technology, Bombay), 27th April-4th May, 2020

Hands-on training on Plant Taxonomy

Department of Botany, Shivaji University, Kolhapur, 5th-10th September, 2019

Orientation Lectures' on AVISHKAR-2017

Savitribai Phule Pune University and Fergusson College, Pune, 10th October 2017

Advanced Green Revolution Global Certification Program

United Nations Framework Convention on Climate Change, Pune, 2017

Grade: A

Basic Green Revolution Global Certification Program

United Nations Framework Convention on Climate Change, Pune, 2016

Grade: A

OTHER AFFILIATION

Content Translator (English-Hindi)

FoodBook Online Services Pvt. Ltd.

Hyderabad, September-December 2017

COMMUNITY SERVICE

Teaching Volunteer

Doorstep School, Pune, June 2016-March 2017

LANGUAGES

Bengali: Native Language

English: Distinguished listener and speaker with notable reading and scientific writing skills.

Hindi: Distinguished listener and speaker with efficient reading and writing skills.

Nepali: Intermediate listener and speaker, Novice reading and writing skills.

Marathi: Distinguished listener and speaker with efficient reading and novice writing skills.

German: Intermediate listener and speaker, Novice reading and writing skills.

- **German Language Proficiency Certificate (Level-A₁)**
Goethe Institute, Kolkata, 2012
- **German Language Proficiency Certificate (Level-A₂)**
Goethe Institute, Kolkata, 2014