

Affiliation

Assistant professor
Department of Zoology & Genetics
Jyoti Nivas College Autonomous
Koramangala, Bangalore-560095
Personal ID- https://www.jyotinivas.org/vinutha_zoology.php
Web of Science ResearcherID: AAT-2151-2021
Google scholar
<https://scholar.google.com/citations?user=dtu3HD0AAAAJ&sortby=title>



Mrs. Vinutha R Bhatta completed her M. Sc with *first rank and gold medal* from Mangalore University. She received her B.Ed. degree from Bangalore University in the year 2011. Mrs. Bhatta has more than 15 years of teaching experience and currently working as Assistant Professor at Jyoti Nivas College Autonomous, Bangalore, Karnataka. Mrs. Vinutha Bhatta has significantly contributed to the field of Environmental Biology. Currently she is working on Bee diversity and approaches for their protection and conservation in the urban green area. Her research on Urban Ecology has documented diverse native bee species in anthropogenically influenced urban habitats and her work on urban land scape ecology has identified suitable floral species that provide feeding resource for bees and diverse nesting patterns of bees in the urban habitat. Additionally, honey analysis and DNA analysis of *Apis cerana* bees have confirmed the nutritional safety and genetic diversity of bees proving the suitability of urban green spaces for in-situ conservation of bees. She has published her research findings in the reputed national and international journals and also presented her findings in conferences and symposia and has been honoured with *best presentation award* for a paper titled 'Native Bee Diversity in Urban Green Spaces and Approaches for Sustainable Development'. She has given *Invited Lectures* on Urban Bee Conservation at various National and International Seminars and was also invited as *Resource Person* for Webinars. She has been recognised as the *reviewer of reputed journals* and has reviewed several scientific papers. She has *organised workshops* on Urban Beekeeping for College students to inculcate *awareness on pollinator protection and conservation*, in addition to promoting beekeeping as an entrepreneurial skill. She has received **Best teacher award** for her contribution in teaching from Institute of Scholars, Bangalore and also, she is the recipient of **Women Scientist Award -2021** from The Society for Climate Change and Sustainable Environment, **NESA-Junior Scientist award** from the National Environmental Science Academy, New Delhi.

Qualification

Degree	Subject	University
Ph.D	Molecular Entomology	Periyar University
KSET Qualified	Life Science	UGC
B.Ed.	Science	Bangalore University
M.Sc. (Gold Medal & First Rank)	Applied Zoology	Mangalore University

Research Experience

1. Urbanisation and its impact on Bees.
 2. Native bee diversity in Urban Green space.
 3. Bee flora in the urban green habitat.
 4. Qualitative analysis of honey.
 5. ssr studies of *Apis cerana* for analysing the effect of urbanisation.
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Awards

1. Secured **First Rank and Gold Medal** in M.Sc. from Mangalore University.
2. Recipient of Best Teacher Award from Institute of Scholars (ISO 9001:2015 Certified Institute, Accredited by UASL) on June 2020.
3. Recipient of NESAI Junior Scientist of the Year – 2021 from National Environmental Science Academy, New Delhi.
4. Recipient of Women Scientist Award -2021 from The Society for Climate Change and Sustainable Environment.
5. Best Oral Presentation award with cash prize at the National E-Seminar on Ecosystem Restoration, organized by the Department of Environmental Science, Institute of Science, GITAM (Deemed to be University), Visakhapatnam in association with Society for Science of Climate Change and Sustainable Environment, New Delhi, India on 4th & 5th June 2021.

Achievements

1. Reviewer of International journal of basic and applied science,
2. Reviewer of Journal of Environmental Biology published by Triveni Enterprises
3. Reviewer of Academia Edu
4. Reviewer of Journal of Science, Humanities and Management, academic journal published by Jayaraj Annapackiam College for Women (Autonomous), Periyakulam
5. Keynote Speaker at International E-Symposium on Biodiversity (IeSB-2020-SSC) on Habitat Fragmentation and Its Lasting Impact on Biodiversity of Indian Subcontinent organised by Swami Sahjanand College, Jehanabad, Bihar on 3rd February 2021.

6. Resource Person for a Webinar organised by the Department of Botany, Seva Bharathi Mahavidyalaya, Jhargram and Drishticon Organisation W.B on 21 August 2021.

Publications

Papers Published

1. Bhatta, V.R., and Naresh A. K. Physiochemical parameters of *Apis cerana indica* honey as an indicator of bee nutritional status in an anthropogenically managed urban habitat. (2022). International Journal of Tropical Insect Science (Published by Springer Nature). Vol 42 (6). <https://doi.org/10.1007/s42690-022-00910-7>
2. Vinutha Bhatta and Naresh Kumar A. Seasonal Variation in the Morphometric parameters of Asian Honey Bees (*Apis cerana Indica*). National Journal of Jyoti Research Academy, Vol 10. 49-54
3. Vinutha R Bhatta and Naresh Kumar A, 2019, Quantification of secondary metabolites in cerana honey and its potential antioxidant property. International research journal of Pharmacy, 10(9), 145-148. Impact factor-0.751. DOI: 10.7897/2230-8407.1009273
4. V.R. Bhatta and A.N. Kumar, 2020, Native bee diversity and abundance in an urban green space in Bengaluru, India, J. Environ. Biol., vol 41, 1536-1541. DOI: <http://doi.org/10.22438/jeb/41/6/MRN-1438>
5. V.R. Bhatta, P.S. Oza, M. Reddy and M. Vinitha, 2021, Cytotoxic effect of paraphenylenediamine (PPD) on *Danio rerio* (Zebra Fish), J. Entomol. Zool. Stud., 9(4), 272-278. <https://doi.org/10.22271/j.ento.2021.v9.i4c.8770>
6. V.R. Bhatta and A.N. Kumar, 2021, Survey of bee friendly flowering plants and bee-plant interaction in an urban green space in Bengaluru, India, J. Environ. Biol., vol 42, 1330-1337. <http://doi.org/10.22438/jeb/42/5/MRN-1776>

Abstracts Published

1. V. R Bhatta, P Arya, Kanchan N, Marack L. C .H, Khan S, Madappa M.B., 2016, Comparision of gut microflora of two vermicomposting earthworm species- *Eisenia foetida* and *Periyonyx excavates*. International Symposium on Microbiome in Health and Diseases, pp.57
2. V. R Bhatta., P, Arya., J. Izzy., N.Kanchan, et al., Gut microflora of earth *Eisenia foetida*, vermicomposting earthworm species, 2016, Proceedings of the Symposium on Project Green Rescue, pp.14
3. V. R Bhatta and A Naresh Kumar., Comparision of morphometric data to discriminate the Indian Honey bee *Apis Cerana indica* from urban and wild habitats, 2017, Integrating Recent Advances in Pest and Disease Management, pp. 189.
4. V.R Bhatta., M.C Pravalika., S.M Bhavani., J Arati., H.R Tejaswini., Effect of visual cues on Human Memory and Reasoning, 2018, Proceedings of Mind-Body Mater an Interdisciplinary Insight. pp.29.

5. V. R Bhatta., J Lochana., Midhath F.R.K., P. Deepthi., Antimicrobial Assay of leaf extracts of *Curcuma longa*, *Cinnamomum zeylanicum* and *Piper betel* on *Escherichia coli* and *Staphylococcus aureus*, 2018, Proceedings of Mind Body Mater an Interdisciplinary Insight. pp. 30
6. V.R Bhatta., Meghana S.A., L Kavya., K Archana., M.S Swathi., R. Rohitha., Antimicrobial activity of cow dung and cow urine on Human pathogens. 2018. Proceedings of Mind-Body Mater an Interdisciplinary Insight Pp. 44.
7. V.R Bhatta., K. N Rakshitha., Rashmitha., R, Keerthana., S, Nithya., Evaluation of the Antibacterial Activity of Alcohol-Based Hand Sanitizers with Leaf Extracts of *Aloe Vera* and *Cinnamon* against Hand Microorganisms, 2019, Proceedings of Future India - Science and Technology: Research. Innovations in Biology, Pp. 52
8. V.R Bhatta and Naresh Kumar A., Colonisation pattern of maintained Honey bees- *Apis cerana* under Urban Habitat, 2019, Proceedings of Innovation in Life Sciences for Sustainable Environment, pp.110.
9. V.R Bhatta and Naresh Kumar A, Pollinator community and diversity in an Urban area of Bangalore, Karnataka, 2020, Proceedings of Indian Science Congress, Environment pp.192
10. V.R Bhatta and Naresh Kumar A, Floral diversity and nutritional resources for native bee conservation in an urban green space in Bangalore, India., Compendium of Abstracts, 2nd International Conference on “Affordable Strategies for Health, Environment and Food Technology” (ASHEF 2020), pp 07.
11. Vinutha R Bhatta, Mariastella A.S, Pavithra Anil, Pooja C, Aksa, Tenzin, Avian diversity and distribution in urban green and urban blue spaces in Bangalore, India, Book of Abstracts, ‘National level virtual conference on Diversity and distribution of Indian birds, pp 32.

Papers Presented

1. Comparison of morphometric data to discriminate the Indian honeybee *Apis cerana indica*, from urban and wild habitats, 9-11 February, National Seminar organized by the Society for Bio Control Advances, NBAIR, Bangalore
2. Colony failure in maintained colonies of Honey bees, 7-9th February 2018, National Conference-Frontiers in ecological sciences and its applications, School of Life Sciences, Periyar University, Salem.
3. Colonization pattern of maintained Honeybees- *Apis cerana* under urban habitat, 21st February 2019, National Conference –Innovation in life sciences for sustainable environment, Department of Life Sciences, Christ University, Bangalore
4. Pollinator community and diversity in an urban area of Bangalore, 3rd to 7th January 2020, International Conference-107th Indian Science Congress, University of Agricultural Sciences, Bangalore
5. Floral diversity and nutritional resources for native bee conservation in an urban green space in Bangalore, India, 22nd December 2020, International Conference on

“Affordable Strategies for Health, Environment and Food Technology (ASHEF 2020)”, NAAM Institute of Technology, Nitte.

6. Urban biodiversity. E-Symposium on Biodiversity (IeSB-2020-SSC) on Habitat Fragmentation and Its Lasting Impact on Biodiversity of Indian Subcontinent organised by Swami Sahjanand College, Jehanabad, Bihar.
7. Native bee diversity in urban green spaces and approaches for sustainable development on 4th and 5th June 2021 at a National E-seminar on Ecosystem Restoration organised by the Department of Environmental Science, GITAM Deemed to be University in association with Society for science of climate change and sustainable environment, New Delhi.
8. Genetic variation and polymorphism in *Apis cerana* populations on 22nd - 23rd October 2021, at two-day conference on “BIOINSPIRE – 2021-Science and Technology for Sustainable Development with Women Empowerment” held at School of Sciences, Jain (Deemed-to-be University)

Courses Completed

1. **Forensic Science & Fingerprinting**, International Forensic Science, Gov. of India. By MHRD & Govt. of Maharashtra
2. **Women in Environmental Biology**, University of Barcelona. Online credit course by Coursera.
3. **Anatomy; Musculoskeletal and Integumentary System**, University of Michigan. Online credit course by Coursera.
4. **Anatomy; Cardiovascular, Respiratory and Urinary Systems**, University of Michigan. Online credit course by Coursera.
5. **E-Bird Essentials on Bird Watching and Bird Identification**, Cornell Lab of Ornithology. Online credit course by Bird Academy
6. **Bee Ecology** Online credit course by Udemy
7. **Principal Component and Factor Analysis**-Online certificate course by Udemy

Memberships

- Member of Entomological Society of India.
- Member of Indian Science Congress.
- Fellow Member of Society of Agricultural Research and Social Development, New Delhi
- Fellow member of Institute of scholars
- Member of Bombay Natural History Society (BNHS)
- Life member of Society for Science of Climate Change and Sustainable Environment
- Life member of National Environmental Academy

- Member of Board of Examination Govt. Science College, Bangalore.
- Member of Board of Examination Dayananda Sagar University, Bangalore.

Workshops Organised

1. **Hands on workshop-Apiculture and Vermicomposting**, in collaboration with Horticulture Department, March 3-2018. At Azyme Biosciences Pvt Ltd Bangalore.
2. **Hands on workshop-Apiculture**, in collaboration with Horticulture Department, February 3-2019.
3. **Recent Techniques & Tools in Genetic Engineering-** in collaboration with Azyme Biosciences, 5 & 6th January 2019.
4. **Techniques in genetic engineering-workshop** conducted by the Departments of Zoology and Genetics Jyoti Nivas College Autonomous, Bangalore, 12 & 13th March 2019
5. **Molecular Technique-** in collaboration with Azyme Biosciences, 28 & 29th September 2019

Conferences/ Seminars Organised

1. **Bio symphony-** 2016, Project Green Rescue, Two-day national Symposium, on 18 & 19th 2016, Jyoti Nivas College Autonomous, Bangalore-Registration Committee
2. **Bio essence- Integrated Health Care**, UGC sponsored National Conference, 11 & 12th January 2017, Jyoti Nivas College Autonomous, Bangalore- Registration and Publicity Committee
3. **Mind Body Matters – An interdisciplinary Insight**, UGC Sponsored National Conference, 1 & 2nd February 2018, Jyoti Nivas College Autonomous, Bangalore-Registration and Publicity Committee
4. **National Webinar – Corona Virus Envelop Proteins and Nutritional Intervention**, 19th June 2020, Jyoti Nivas College Autonomous, Bangalore- Organizing Committee.
5. **National level e-poster presentation for UG and PG students**
11.3.2021, Departments of Zoology and Genetics, Jyoti Nivas College Autonomous, Bangalore.
6. **National Webinar – Trajectory of Novel Corona Virus**, 4th September 2021, Jyoti Nivas College Autonomous, Bangalore.
7. **National Webinar – Biodiversity Conservation and Sustainability**, 15th September 2021, Jyoti Nivas College Autonomous, Bangalore.

Projects Guided

Guided more than 200 students for projects and research work.