



DEVIKA M ANILKUMAR

RESEARCHER

✉ devikamadathil99@gmail.com ☎ +91 9400315889

📍 Madathil House, Thrissur, Kerala, India

PROFILE SUMMARY

I am a passionate and results-driven Ecologist and Plant Conservationist with experience in the conservation and restoration of plant biodiversity, forest ecosystems, and other natural habitats. With a strong foundation in plants, their environment and ecological research since my masters, I specialize in developing and implementing conservation strategies that promote sustainable practices and the protection of threatened plant species and their habitat across the Western Ghats. I have contributed to the IUCN Red List assessments of 130 plant species in the Western Ghats region, providing critical data to inform conservation priorities and strategies during my early career begun with the Western Ghats Hornbill Foundation. My expertise spans field-level ecological research, species monitoring, Ecological niche modelling, habitat restoration, policy advocacy, and community engagement, all aimed at mitigating biodiversity loss and enhancing ecological resilience. Currently pursuing a PhD in Botany at the University of Calicut, I have received the Rufford Small Grant (2022) for studies on threatened trees, Prakriti Research Fellowship (2023) for engaging communities in the conservation of threatened species habitat and sacred groves, and the Kerala State Biodiversity Board Doctoral Fellowship (2023-2026) which have contributed to Red List assessment of 17 taxa including the flagship 'Neelakurinji' (*Strobilanthes kunthiana*). Authored six peer-reviewed research papers, Three in Elsevier, two in UGC care-listed journals, one in IUCN's Harnessing Nature, 66 IUCN Red List assessments. Contributed to data collection, and preparation of research reports for research projects and consultancy reports focussing on niche-specific conservation and ecorestoration planning to various government agencies such as Kerala State Biodiversity Board, IIPM, BMCs, Kerala Forest Department, LSGs. My passion is gathering ecological data and bridging scientific research with practical conservation efforts to safeguard threatened plant species and ecosystems for future generations.

FELLOWSHIPS & GRANTS

- Rufford Nature Conservation Grant, UK: 2022 (International level)
 - Prakriti Research Fellowship: 2023 (National level)
 - Kerala State Biodiversity Board Doctoral Fellowship: 2023-2026 (State level)
 - Participation and Travel Grant - 8th International Hornbill Conference, Bangkok, Thailand - IUCN SSGs for Hornbill (International level) 2023
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EXPERIENCE

- **Ecorestoration Programme Coordinator, WGHF** 2022 - 2024
 - Volunteering the multi stakeholder involved ecorestoration of sacred groves and disaster hit coastal zones in the SN Puram Grama Panchayath. Collaborated with local communities and government agencies for sustainable biodiversity management.
- **People's Biodiversity Register Updation** 2023
 - Research Consultant for the People's Biodiversity Register preparation of SN Puram Grama Panchayath. This has been the first released second phase PBR in Kerala state.
- **IUCN Red List Global Assessor** 2022 - 2024
 - Completed the training course for the IUCN Red List assessment. Assessing 130 plant species for the IUCN Red List in collaboration with Botanic Gardens Conservation International (BGCI).
- **Research Fellow** 2021 - 2023
 - Worked as research fellow in the project entitled "Threatened status assessment and ecorestoration of endemic tree species and ecosystems in the Western Ghats"
- **Filed work and data collection**
 - Four years of expertise in forest ecology (Western Ghats), ecological sampling, data collection and analysis.

EDUCATION

- Ph.D. Doing - Research Department of Botany, MES Asmabi College, Affiliated to University of Calicut, Kerala, India
- Masters in Botany, 2021 - University of Calicut
- Bachelor of Science in Botany, 2019 - University of Calicut
- Diploma in Computer Applications, 2018 - Center for Development of Imaging Technology (C-dit), Under Government of Kerala.

MEMBERSHIPS

- Member, Society for Ecological Restoration
- Board Member, Western Ghats Hornbill Foundation
- Member, International Society of Tropical Foresters
- Life Member, Indian Association for Angiosperm Taxonomy

AWARDS

- Best Paper Presentation Awards - 6
- Research Excellence Award 2022
- Hyder Sahib Endowment Award Best Masters research project 2021.
- Best outgone student; Mariam Thresia Endowment Award 2018-2019.

RESEARCH PROJECTS

- Project entitled “Niche Profile Based Ecorestoration of Three Threatened Tree Species in the Low Elevation Habitats” funded by Centre for Applied Research and People’s Engagement (CARPE) 2023.
- Project entitled “IUCN status assessment, Niche modelling and Niche profiling of endemic tree species for effective species recovery and ecorestoration” by Rufford Foundation, UK 2022.
- Project entitled “Global IUCN Status Assessment of threatened trees. Botanic Gardens Conservation International, UK.
- Project entitled “Niche specific prioritisation of potential areas for conservation, management and restoration of endemic and threatened tree species and their ecosystems funded by Kerala Forest Department (2023-2024).

RESEARCH EXPERIENCE

1. IUCN Red List Global Assessor: Assessed the threat status of 130 plant species endemic to the Western Ghats Sri Lanka Biodiversity hotspot in collaboration with Botanic Gardens Conservation International (BGCI) (2022-2024).
2. Co-Principal Investigator of the project entitled “Niche specific prioritisation of potential areas for conservation, management and restoration of endemic and threatened tree species and their ecosystems funded by Kerala Forest Department (2023-2024).
3. Research Consultant in the project entitled “The Niche profile based ecorestoration and community-based management of coastal ecosystems ensuring sustainable livelihood” funded by BMC, Sree Narayanapuram Grama Panchayath (2022-2023).
4. Research Consultant in the second phase of People’s Biodiversity Register (PBR) updation of Sree Narayanapuram Grama Panchayath (February to June 2023).
5. Research Fellow in the project entitled “Threatened status assessment and ecorestoration of endemic tree species and ecosystems in the Western Ghats” funded by WGHF, BGCI, KSBB, BMC Sree Narayanapuram (2021-2023).
6. Research Consultant in the project entitled “GIS-based GAP analysis for the biodiversity conservation and management in the plantations in the Munnar Landscape Unit Western Ghats. For Indian Institute of Plantation Management - funded by UNDP (2021).
7. Associated in the final project report preparation of the project entitled “Watershed-based ecorestoration of Panachakunnu, Puthenvelikara Grama Panchayat, Ernakulam District. The holistic rural development program, MS Swaminathan Research Foundation in collaboration with Western Ghats Hornbill Foundation (2020).
8. Volunteered in the consultancy work of Western Ghats Hornbill Foundation with Uravu. Project entitled “Participatory resource mapping of Bamboo in selected areas of Athirappilly Grama Panchayath for the HRML UNDP- Uravu project (2020).

PUBLICATIONS

Research papers

- 1.Devika M.A. and K.H. Amitha Bachan 2024. Niche model based conservation and ecorestoration area prediction of threatened *Prioria pinnata* (Fabaceae) and conservation implication on IUCN status, *Acta Ecologica Sinica*, Elsevier 44(2): 381-390. <https://doi.org/10.1016/j.chnaes.2023.10.002>.
- 2.Devika, M.A. and Amitha Bachan, K.H., 2023. Ecoregion level niche specific habitat prediction of threatened *Syzygium caryophyllatum* (Myrtaceae) for reintroduction and ecorestoration. *Indian Journal of Forestry*, 46(2), pp.78-86. <https://doi.org/10.54207/bsmps1000-2023-663HOX>.
- 3.Amitha Bachan, K.H. and Devika, M.A., 2022. Niche Profiling and Niche Modelling of Endangered *Cryptocarya anamalayana* Endemic to Western Ghats for Conservation and Restoration. In: DellaSala, D.A., Goldstein, M.I. (Eds.), *Imperiled: The Encyclopedia of Conservation*, vol. 1. Elsevier, pp. 751–764. <https://dx.doi.org/10.1016/B978-0-12-821139-7.00225-7>.
- 4.Amitha Bachan, K.H., Pooja, S., Devika, M.A., 2022. Riparian Forest of Western Ghats, an Endangered Ecosystem. In: DellaSala, D.A., Goldstein, M.I. (Eds.), *Imperiled: The Encyclopedia of Conservation*, vol. 2. Elsevier, pp. 100– 113. <https://dx.doi.org/10.1016/B978-0-12-821139-7.00207-5>.
- 5.Amitha Bachan, K.H. and Devika M. A. 2020. Impacts of dams on riparian vegetation: A case study in Chalakudy river, Western Ghats, India.*J. Aquat. Biol. Fish.* 8, 7-13. <https://www.jabf.in/articles/Vol8/S/2-Bachan&Devika.pdf>

Research Article

1. Amitha Bachan, K.H. and Devika, M. A. 2021. “Unto Nature’s wilderness until harmonise our understandings to restore healthy ecosystems”. *Harnessing nature magazine IUCN Commission on Ecosystem Management (CEM) group*. https://harnessingnatureblog.files.wordpress.com/2021/09/hn_vol_3_iss_1_red-2.pdf

IUCN Red List Assessments

- 1.Devika, M.A. & Amitha Bachan, K.H. 2023. *Medinilla anamalaiana*. The IUCN Red List of Threatened Species 2023: e.T239579056A239579839. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/239579056/239579839>
- 2.Devika, M.A. & Amitha Bachan, K.H. 2023. *Syzygium ponmudianum*. The IUCN Red List of Threatened Species 2023: e.T222292291A222292498. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/222292291/222292498>

3. Devika, M.A. & Amitha Bachan, K.H. 2023. *Syzygium sasidharanii*. The IUCN Red List of Threatened Species 2023: e.T222291660A222292347. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/222291660/222292347>
4. Devika, M.A. & Amitha Bachan, K.H. 2023. *Syzygium agastyamalayanum*. The IUCN Red List of Threatened Species 2023: e.T222291715A222292384. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/222291715/222292384>
5. Devika, M.A. & Amitha Bachan, K.H. 2023. *Prioria pinnata*. The IUCN Red List of Threatened Species 2023: e.T33647A201031235. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/33647/201031235>
6. Devika, M.A. & Amitha Bachan, K.H. 2023. *Syzygium rama-varmae*. The IUCN Red List of Threatened Species 2023: e.T175221A1419729. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/175221/1419729>.
7. Devika, M.A. & Amitha Bachan, K.H. 2024. *Capparis rheedei*. The IUCN Red List of Threatened Species 2024: e.T169056981A169056985. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169056981/169056985>.
8. Devika, M.A. & Amitha Bachan, K.H. 2024. *Terminalia paniculata*. The IUCN Red List of Threatened Species 2024: e.T61990271A61990273. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/61990271/61990273>.
9. Devika, M.A. & Amitha Bachan, K.H. 2024. *Holigarna arnottiana*. The IUCN Red List of Threatened Species 2024: e.T117894503A117894511. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/117894503/117894511>.
10. Devika, M.A. & Amitha Bachan, K.H. 2024. *Poeciloneuron indicum*. The IUCN Red List of Threatened Species 2024: e.T169578210A169589625. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169578210/169589625>.
11. Devika, M.A. & Amitha Bachan, K.H. 2024. *Humboldtia brunonis*. The IUCN Red List of Threatened Species 2024: e.T201030934A201031378. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/201030934/201031378>.
12. Devika, M.A. & Amitha Bachan, K.H. 2024. *Garuga pinnata*. The IUCN Red List of Threatened Species 2024: e.T61987712A61987714. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/61987712/61987714>
13. Devika, M.A. & Amitha Bachan, K.H. 2024. *Ixora brachiata*. The IUCN Red List of Threatened Species 2024: e.T169575682A169589580. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169575682/169589580>
14. Devika, M.A. & Amitha Bachan, K.H. 2024. *Mastixia arborea*. The IUCN Red List of Threatened Species 2024: e.T38018A2867825. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/38018/2867825>

15. Devika, M.A. & Amitha Bachan, K.H. 2024. *Calophyllum austroindicum*. The IUCN Red List of Threatened Species 2024: e.T169056310A169056351. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169056310/169056351>
16. Devika, M.A. & Amitha Bachan, K.H. 2024. *Symplocos macrophylla*. The IUCN Red List of Threatened Species 2024: e.T169844097A169844195. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169844097/169844195>
17. Devika, M.A. & Amitha Bachan, K.H. 2024. *Buchanania axillaris*. The IUCN Red List of Threatened Species 2024: e.T169054528A169055770. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169054528/169055770>
18. Devika, M.A. & Amitha Bachan, K.H. 2023. *Syzygium rama-varmae*. The IUCN Red List of Threatened Species 2023: e.T175221A1419729. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/175221/1419729>
19. Amitha Bachan, K.H. & Devika, M.A. 2023. *Madhuca balakrishnanii*. The IUCN Red List of Threatened Species 2023: e.T225970375A225970391. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/225970375/225970391>
20. Amitha Bachan, K.H. & Devika, M.A. 2023. *Diospyros crumenata*. The IUCN Red List of Threatened Species 2023: e.T30864A2798277. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/30864/2798277>.
21. Amitha Bachan, K.H. & Devika, M.A. 2023. *Syzygium occidentale*. The IUCN Red List of Threatened Species 2023: e.T31199A119040796. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/31199/119040796>.
22. Amitha Bachan, K.H. & Devika, M.A. 2023. *Ochna gamblei*. The IUCN Red List of Threatened Species 2023: e.T208974595A209009666. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/208974595/209009666>
23. Amitha Bachan, K.H. & Devika, M.A. 2023. *Syzygium calophyllifolium*. The IUCN Red List of Threatened Species 2023: e.T210010463A210023247. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/210010463/210023247>
24. Amitha Bachan, K.H. & Devika, M.A. 2023. *Ficus beddomei*. The IUCN Red List of Threatened Species 2023: e.T210013452A210023277. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/210013452/210023277>.
25. Amitha Bachan, K.H., Sasidharan, N. & Devika, M.A. 2023. *Syzygium periyarensis*. The IUCN Red List of Threatened Species 2023: e.T201031081A201031398. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/201031081/201031398>

26. Amitha Bachan, K.H. & Devika, M.A. 2024. *Xanthophyllum flavescens*. The IUCN Red List of Threatened Species 2024: e.T169575839A169589585. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169575839/169589585>
27. Amitha Bachan, K.H. & Devika, M.A. 2024. *Leptonychia caudata*. The IUCN Red List of Threatened Species 2024: e.T169576443A169589590. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169576443/169589590>
28. Amitha Bachan, K.H. & Devika, M.A. 2024. *Spondias pinnata*. The IUCN Red List of Threatened Species 2024: e.T169579321A169589670. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169579321/169589670>
29. Amitha Bachan, K.H. & Devika, M.A. 2024. *Mesua ferrea*. The IUCN Red List of Threatened Species 2024: e.T61987931A61987933. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/61987931/61987933>
30. Amitha Bachan, K.H. & Devika, M.A. 2024. *Reinwardtioidendron anamalaiense*. The IUCN Red List of Threatened Species 2024: e.T169578317A169589635. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169578317/169589635>
31. Amitha Bachan, K.H. & Devika, M.A. 2024. *Wrightia tinctoria*. The IUCN Red List of Threatened Species 2024: e.T200684372A201031358. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/200684372/201031358>
32. Amitha Bachan, K.H. & Devika, M.A. 2024. *Calophyllum polyanthum*. The IUCN Red List of Threatened Species 2024: e.T169056566A169056803. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169056566/169056803>
33. Amitha Bachan, K.H. & Devika, M.A. 2024. *Terminalia elliptica*. The IUCN Red List of Threatened Species 2024: e.T169578245A169589630. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169578245/169589630>
34. Amitha Bachan, K.H. & Devika, M.A. 2024. *Drypetes venusta*. The IUCN Red List of Threatened Species 2024: e.T169582570A169589680. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169582570/169589680>
35. Amitha Bachan, K.H. & Devika, M.A. 2024. *Canarium strictum*. The IUCN Red List of Threatened Species 2024: e.T117894243A117894247. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/117894243/117894247>
36. 1. Amitha Bachan, K.H. & Devika, M.A. 2024. *Myristica malabarica*. The IUCN Red List of Threatened Species 2024: e.T31219A115932548. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/31219/115932548>

37. Amitha Bachan, K.H. & Devika, M.A. 2024. *Otonophelium stipulaceum*. The IUCN Red List of Threatened Species 2024: e.T169577357A169589620. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169577357/169589620>
38. Amitha Bachan, K.H. & Devika, M.A. 2024. *Holigarna nigra*. The IUCN Red List of Threatened Species 2024: e.T169575429A169589570. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169575429/169589570>
39. Amitha Bachan, K.H. & Devika, M.A. 2024. *Drypetes oblongifolia*. The IUCN Red List of Threatened Species 2024: e.T169573877A169589515. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169573877/169589515>
40. Amitha Bachan, K.H. & Devika, M.A. 2024. *Bombax insigne*. The IUCN Red List of Threatened Species 2024: e.T62722A169055760. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/62722/169055760>
41. Amitha Bachan, K.H. & Devika, M.A. 2024. *Aglaia simplicifolia*. The IUCN Red List of Threatened Species 2024: e.T34764A169055678. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/34764/169055678>
42. Amitha Bachan, K.H. & Devika, M.A. 2024. *Myristica magnifica*. The IUCN Red List of Threatened Species 2024: e.T37314A226834730. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/37314/226834730>
43. Amitha Bachan, K.H. & Devika, M.A. 2024. *Pandanus palakkadensis*. The IUCN Red List of Threatened Species 2024: e.T210014331A210018953. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/210014331/210018953>
44. Amitha Bachan, K.H. & Devika, M.A. 2024. *Atuna travancorica*. The IUCN Red List of Threatened Species 2024: e.T33608A169055603. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/33608/169055603>
45. Amitha Bachan, K.H. & Devika, M.A. 2024. *Syzygium hemisphericum*. The IUCN Red List of Threatened Species 2024: e.T169578399A169589650. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169578399/169589650>
46. Amitha Bachan, K.H. & Devika, M.A. 2023. *Syzygium palghatense*. The IUCN Red List of Threatened Species 2023: e.T31200A149812631. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/31200/149812631>.
47. Amitha Bachan, K.H. & Devika, M.A. 2023. *Syzygium bourdillonii*. The IUCN Red List of Threatened Species 2023: e.T32866A149813923. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/32866/149813923>

48. Amitha Bachan, K.H. & Devika, M.A. 2023. *Ficus costata*. The IUCN Red List of Threatened Species 2023: e.T210013545A210023282. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/210013545/210023282>
49. Amitha Bachan, K.H. & Devika, M.A. 2023. *Ficus dalhousiae*. The IUCN Red List of Threatened Species 2023: e.T210013949A210023287. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/210013949/210023287>
50. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Orophea uniflora*. The IUCN Red List of Threatened Species 2022: e.T31160A180786366. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T31160A180786366.en>. Accessed on 03 August 2022. ISSN 2307-8235.
51. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Polyalthia malabarica*. The IUCN Red List of Threatened Species 2022: e.T31161A180812090. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T31161A180812090.en>. Accessed on 03 August 2022. ISSN 2307-8235.
52. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Goniothalamus wightii*. The IUCN Red List of Threatened Species 2022: e.T179206765A179206767. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T179206765A179206767.en>. Accessed on 03 August 2022. ISSN 2307-8235.
53. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Goniothalamus rhynchantherus*. The IUCN Red List of Threatened Species 2022: e.T32856A179204854. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T32856A179204854.en>. Accessed on 03 August 2022. ISSN 2307-8235.
54. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Goniothalamus wynaadensis*. The IUCN Red List of Threatened Species 2022: e.T31158A179201448. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T31158A179201448.en>. Accessed on 03 August 2022. ISSN 2307-8235.
55. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Anilkumar, D. 2022. *Meiogyne pannosa*. The IUCN Red List of Threatened Species 2022: e.T179067254A179067264. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T179067254A179067264.en>. Accessed on 03 August 2022. ISSN 2307-8235.
56. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Orophea erythrocarpa*. The IUCN Red List of Threatened Species 2022: e.T180787950A180787952. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T180787950A180787952.en>. Accessed on 03 August 2022. ISSN 2307-8235.

57. Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Goniothalamus cardiopetalus*. The IUCN Red List of Threatened Species 2022: e.T179207182A179207187. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T179207182A179207187.en>. Accessed on 03 August 2022. ISSN 2307-8235.
58. Amitha Bachan, K.H. & Devika, M.A. 2024. *Memecylon umbellatum*. The IUCN Red List of Threatened Species 2024: e.T169577007A169589605. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169577007/169589605>
59. Amitha Bachan, K.H. & Devika, M.A. 2024. *Dolichandrone falcata*. The IUCN Red List of Threatened Species 2024: e.T169573758A169589505. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169573758/169589505>
60. Amitha Bachan, K.H. & Devika, M.A. 2024. *Calophyllum pascalianum*. The IUCN Red List of Threatened Species 2024: e.T169056377A169056798. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/169056377/169056798>
61. Amitha Bachan, K.H. & Devika, M.A. 2024. *Pandanus kaida*. The IUCN Red List of Threatened Species 2024: e.T210014326A210023302. Accessed on 09 November 2024. <https://www.iucnredlist.org/species/210014326/210023302>
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63. Devika, M.A. & Amitha Bachan, K.H. 2024. *Impatiens parasitica*. The IUCN Red List of Threatened Species 2024: e.T239578975A239579834. ISSN 2307-8235 <https://www.iucnredlist.org/species/239578975/239579834>
64. Amitha Bachan, K.H. & Devika, M.A. 2024. *Strobilanthes kunthiana*. The IUCN Red List of Threatened Species 2024: e.T239578615A239579829. ISSN 2307-8235 <https://www.iucnredlist.org/species/239578615/239579829>
65. Amitha Bachan, K.H. & Devika, M.A. 2023. *Syzygium parameswaranii*. The IUCN Red List of Threatened Species 2023: e.T38821A119040966. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/38821/119040966>
66. Amitha Bachan, K.H. & Devika, M.A. 2023. *Cryptocarya lawsonii*. The IUCN Red List of Threatened Species 2023: e.T159104035A159444007. Accessed on 17 December 2023. <https://www.iucnredlist.org/species/159104035/159444007>

Consultancy Reports

1. Amitha Bachan and Devika M. A. 2024. The Niche profile based ecorestoration and community-based management of coastal ecosystems ensuring sustainable livelihood. BMC, Sree Narayana Puram Grama Panchayath.
2. Amitha Bachan and Devika M. A. 2021. A perspective strategic plan for the conservation, monitoring and ecorestoration of coastal ecosystems and its biodiversity within the Sree Narayana Puram Grama Panchayath, submitted to BMC, Sree Narayana Puram Grama Panchayath.
3. Amitha Bachan and Devika M. A. 2021. GIS-based GAP analysis for the biodiversity conservation and management in the plantations in the Munnar Landscape Unit Western Ghats. For Indian Institute of Plantation Management.

Conference Proceedings

1. Devika M.A. and Amitha Bachan, K.H. 2023. Niche specificity of Malabar Pied Hornbill and Conservation of Endangered Low elevation riparian forest ecosystem in the Western Ghats. Abstract proceedings of 8th International Hornbill Conference, Happy Hornbills-Healthy Forests. Kasetsart University, Bangkok in Thailand. Page. No. 28.
2. Devika M.A. and Amitha Bachan, K.H. 2022. IUCN Red List Assessment and Niche Modelling to Predict Potential Conservation Locations for Niche Specific Conservation and Ecorestoration: A Case Study on *Goniothalamus wightii* Hook.f. & Thomson (Annonaceae). International conference on sustainable utilization of bioresources, University of Kerala.
3. Amitha Bachan K.H and Devika M.A. 2022. Niche Model Based Habitat Delineation and IUCN Reassessment of Obligate Riparian Species (*Syzygium occidentale* (Bourd.) Gandhi) Incorporating Flood Impact Population Data and Comparison with Ecosystem Prediction Pattern. International conference on advanced biology, University of Kerala.
4. Devika M.A. and Amitha Bachan, K.H. 2022. Niche Model and Niche Profile based Conservation Planning and Ecorestoration of Endemic Red Listed Angiosperms in the Western Ghats. IAAT.
5. Amitha Bachan, K.H. and Devika, M.A. 2021. Ecological niche modelling improvised to predict potential habitats of threatened tree species for effective management. 11th International Conference on Ecological informatics. Conference abstract No. 98.

PAPER PRESENTATIONS

International (12)

- IUCN Red List Assessment, Niche Specific Conservation Planning and Community based Ecorestoration of Threatened Angiosperms in the Western Ghats. Teresian Centenary International Multidisciplinary Conclave - 2024, St Teresa's College (Autonomous), Ernakulam. 2024
- Climate Change Impact on Future Habitat and Conservation of Epiphytes of the Submontane Pseudo-Shola Forests in the Western Ghats. International Seminar on Exploring the Intersections of Biodiversity, Ecology, and Sustainable Agriculture. Carmel College (Autonomous), Mala, Kerala. 2024
- Niche specificity of Malabar Pied Hornbill and Conservation of Endangered Low elevation riparian forest ecosystem in the Western Ghats. 8th International Hornbill Conference, Happy Hornbills-Healthy Forests. Kasetsart University, Bangkok in Thailand. 2023.
- "Modified Niche Modelling of the Threatened Trees for Restoration of Rainforest Habitats" in International Conference on Recent Advances in Biological Science 2023 organised by Inter University Centre for Evolutionary and Integrative Biology, University of Kerala, Kariavattom. **(Best presentation award)**.
- "Niche Specific Prediction and Profiling of Threatened Trees of the Western Ghats Contributing to IUCN Red List Assessment and Restoration" in ESPLORO 23 Annual Research Conclave & International Conference on Advancement in Research Organised by M.E.S Asmabi College, P. Vemballur in collaboration with KSHEC. **(Best presentation award)**.
- "Threatened status assessment of Riparian Ecosystem". International Conference on World Fish Migration Day. Organized by World Fish Migration Foundation & WGHF 2022.
- "Predicting and Profiling Niches of Threatened Tree Species Contributing to IUCN Status Assessment, Ecosystem Based Conservation and Niche Specific Restoration" in 32nd Annual Conference of Indian Association for Angiosperm Taxonomy and National Symposium organised by Karnataka Science College, Dharwad, Karnataka. 2022.
- "Niche Model and Niche Profile based Conservation Planning and Ecorestoration of Endemic Red Listed Angiosperms in the Western Ghats". Indian Association for Angiosperm Taxonomy Annual Conference 2022.
- "IUCN Red List Assessment and Niche Modelling to Predict Potential Conservation Locations for Niche Specific Conservation and Ecorestoration: A Case Study on *Goniothalamus wightii* Hook.f. & Thomson (Annonaceae)". International conference on Sustainable utilization of bioresources, University of Kerala, 2022. **(Best presentation award)**.

- “Niche Model Based Habitat Delineation and IUCN Reassessment of Obligate Riparian Species (*Syzygium occidentale* (Bourd.) Gandhi) Incorporating Flood Impact Population Data and Comparison with Ecosystem Prediction Pattern. International conference on advanced biology, University of Kerala 2022.
- “Ecological niche modelling improvised to predict potential habitats of threatened tree species for effective management”. International Conference on Ecological informatics, 2021.
- “Impacts of Dams on Riparian Vegetation: A Case Study in Chalakudy River, Western Ghats”. River for future conference, 2020. University of Kerala, India.

National (7)

- “Role of Fungal Interaction and Climate Change in Germination and Niche Specific Ecorestoration of Critically Endangered *Diospyros crumenata* Thwaites” in two days KSBB sponsored national seminar organised by MES Asmabi College. **(Best presentation award)**.
- Climate change resilience through niche specific ecosystem restoration in National Seminar ‘Climate change & Biodiversity organised by Vimala College supported by Ministry of Science and Technology, Govt. of India, New Delhi.
- “IUCN Red List Assessment, Niche Modelling and Profiling Contributing for Niche Specific Restoration of Threatened Angiosperms in the Western Ghats in Biodiversity Challenges and Threats; Current Scenario organised by Sree Narayana College, Kollam supported by KSBB. **(Best presentation award)**.
- “Niche Profiling, Niche Modelling and IUCN Reassessment of *Diospyros crumenata* Thwaites for Conservation and Ecorestoration” National Seminar; Species the Passion 2022. St Thomas College (Autonomous), Thrissur.
- Niche profiling, Niche modelling and reassessment of three IUCN red listed endemic tree species for conservation and ecorestoration. National level scientific paper presentation competition organised by ZOOTOPIA -The Journal Club, Department of Zoology, Vimala College, Thrissur. **(Best presentation award)**.
- “Inclusive Indigenous Territories and Indigenous Way of Resource Management”. in National tribal seminar, 2020. MES Mampad College, Malappuram.
- “Community Forest Rights Act” in 5th Kerala Community Forest Resource Conference. 2019.

INVITED TALKS

- Talk on “Nature conservation and its present concerns” as part of World Nature Conservation Day 2022 organised by NSS Unit VHSS Karalam.
- Talk on “Wild and threatened plants of coastal ecosystems” as part of Biodiversity survey for People’s Biodiversity Register updation of Sree Nararayapuram Grama Panchayath organised by BMC SN puram Panchayath and CEtC Hornbill Foundation.

- Talk on “Niche-Specific Conservation and Eco-Restoration Planning for Threatened Taxa” in the one-day workshop for Biodiversity Conservation conducted as part of the Malabar Garden Festival organised by KSCSTE -Malabar Botanical Garden & Institute for Plant Sciences. December 2024

CERTIFICATE COURSES COMPLETED

International

- IUCN Red List training course entitled ‘Assessing Species’ Extinction Risk using IUCN Red List Methodology’ in collaboration with The Nature Conservancy. 2021.
- The Nature Conservancy training on ‘Coral Reef Restoration’ organized by Reef Resilience Network as part of NOAA coral reef conservation program.
- Certificate course in ‘Ecology: Ecosystem Dynamics and Conservation’ offered by American Museum of Natural History & Howard Hughes Medical Institute in Coursera. 2020.
- Certificate course in ‘Ecology: From cells to Gaia’ offered by National Research Tomsk State University in Coursera. 2020.
- Certificate course in ‘Introduction to Algae’ offered by University of California San Diego in Coursera. 2020.

National

- Certificate course in “Climate change and Sustainability” conducted by MES Asmabi college and Western Ghats Hornbill Foundation. 2020.
- Certificate course in “Indigenous Rights and Applications of GIS” conducted by MES Asmabi college and Western Ghats Hornbill Foundation. 2020.

Regional

- Certificate course in “Environmental Studies” conducted by St. Joseph’s College (Autonomous), Irinjalakuda, Kerala, India. 2018.
- Certificate course in “Hydroponics and Aquaponics” conducted by St. Joseph’s College (Autonomous), Irinjalakuda, Kerala, India. 2018.
- Certificate course in “Communication skills” conducted by St. Joseph’s College (Autonomous), Irinjalakuda, Kerala, India. 2017.

