

# PHILLMON SMARTE

CURRICULUM VITAE

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## RESEARCH INTERESTS:

- Biogeography
- Geospatial Ecology
- Landscape Ecology
- Conservation Biology
- Biological Anthropology

## TECHNICAL SKILLS & PROFICIENCY

- Geospatial Tools (**QGIS, ArcGIS**)
- Remote Sensing Tools (**ENVI, ERDAS IMAGINE**)
- Ecological Modeling (**MaxEnt, ENM**)
- Coding Environments (**R, Python, JAVA, GEE**)
- Statistical Tools (**R Studio, SPSS**)

## EDUCATIONAL QUALIFICATIONS

Year	Academic Credentials	Awarded By	Grade
2023 - 2024	<b>M.Phil.</b> Environmental Sciences (Master of Philosophy)	<b>Bharathiar University</b>	<i>Commendable</i>
	<b>Dissertation:</b> “Assessing the Impact of Climate Change on The Distribution of Invasive Plant Species in the Western Ghats of India Using Niche Modeling”		
2021 - 2023	<b>M.Sc.</b> Environmental Sciences (Master of Sciences)	<b>Bharathiar University</b>	First Class with Distinction 82%
	<b>Dissertation:</b> “Biosorption of Heavy Metals from aqueous solution using green seaweed <i>Ulva prolifera</i> as a sustainable biosorbent”		
2018 - 2021	<b>B.Sc.</b> Biology (Microbiology) (Bachelor of Sciences)	<b>University of Madras</b>	First Class 70%

## PUBLICATIONS

1. **Edward, P. S.**, Sarangi, N. V., & Rajkumar, R. (2025). Biosorption of heavy metals from aqueous solution using *Ulva prolifera* as a sustainable biosorbent. *Bioremediation Journal*, 1-16. (Scopus – Q2, WoS)
2. **Edward, P.S.**, Regupathikannan, J., Samson, A., & Moinudheen, N. (2025). Evaluation of Habitat Suitability and Ecological Niche Modelling of a Vulnerable Passerine Kashmir Flycatcher (*Ficedula subrubra*). *Biology Bulletin*, 52(4), 157. DOI: <https://doi.org/10.1134/S1062359025601041> (Scopus - Q3, WoS)
3. Arockianathan, S., Jesudass, B., Jabamalainathan, L. P., Magalingam, A. S., Jeyasubashini, R., **Edward P.S.**, & Nizamudheen, M. (2025). Assessment of Population Dynamics, Agricultural Impact, and Conservation Challenges Facing the Indian Peafowl (*Pavo cristatus*) in Tirupur District, Tamil Nadu, India. *Iranian Journal of Animal Biosystematics*. DOI: <https://doi.org/10.22067/ijab.2025.90909.1088> (Scopus – Q4, WoS)
4. Kesavan, R., Abinesh, A., Saran, M., Vignesh, E., Shree, A., Shahir, M., **Edward, P. S.**, Moinudheen, N., Samson, A., & Ali, S. (2025). Silent Invaders: Biodiversity at Risk, Social Media findings into Exotic Pet Trade in Tamil Nadu and Invasion Modeling of *Iguana iguana* (Linnaeus, 1758). *Acta Zoológica Lilloana*, 633-671. DOI: <https://doi.org/10.30550/j.azl/2198>
5. Samson, A., Regupathikannan, J., **Edward, P. S.**, & Moinudheen, N. (2024). Understanding the Ecological Impacts of Roads on Wildlife: A Focus on the Mudumalai Tiger Reserve, India. *Iranian Journal of Animal Biosystematics*, 20(2), 71-87. DOI: <http://dx.doi.org/10.22067/ijab.2024.89897.1082> (Scopus - Q4, WoS).
6. Samson, A., Princy, J. L., Beulahbah, J., Regupathikannan, J., **Edward, P. S.**, Bajpai, H., & Moinudheen, N. (2025). Ecology and conservation challenges of Indian Peafowl (*Pavo cristatus*) in Mudumalai Tiger Reserve, Tamil Nadu, Southern India. *Proceedings of the Mordovia State Nature Reserve* (36), 126-137. DOI: <https://dx.doi.org/10.24412/cl-31646-2686-7117-2025-36-126-137>
7. Samson, A., Princy, J. L., Beulahbah, J., Regupathikannan, J., **Edward, P. S.**, & Moinudheen, N. (2024). Raptors in Mudumalai Tiger Reserve, Tamil Nadu, India. *Nepalese Journal of Zoology*, 8(1), pp.63-70. DOI: DOI: <https://doi.org/10.3126/njz.v8i1.67111>
8. **Edward, P.S.**, Samson, A., Regupathikannan, J., & Pragasan, L. A. (2024). The First Occurrence of Entomopathogenic Fungi *Ophiocordyceps nutans* in Tamil Nadu, India. *Jordan Journal of Natural History*, 11(1), 74-77.

## CONFERENCE PROCEEDINGS

1. **Edward P.S.**, Regupathikannan, J., Akila, S.P., Pragasan, L.A. (2024)- Ecological Niche Modeling: a geospatial perspective on distribution and conservation of *Apis dorsata* Fabricius, 1793 In Tamil Nadu, India. *Conference Proceedings – 2<sup>nd</sup> International Conference on “Insects, Microbes, and Environment: Interactions, Impacts, and Innovations”* (2024). - Loyola College, Chennai, Tamil Nadu. ISBN No.: 978-93- 340-0266-9, pp 54
2. **Edward P.S.**, Jeyasubashini Regupathikannan, Pragasan, L.A. “Unearthing new cashew (*Anacardium occidentale* L) cultivation frontiers in India through Niche modelling”. (2024) *Conference Proceedings - International Climate Change Conference*. (2024). Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya. ISBN No.: 978-93-95453-93-8, pp 53-55
3. **Edward P.S.**, Regupathikannan, J., Akila, S.P., Pragasan, L.A. (2024) Mapping Habitat Suitability and Conservation Priorities for the White-Bellied Blue Robin *Conference Proceedings – EnviroSummit 2024: International Conference on Climate Action, Ecology & Environment - MIT World Peace University, Pune*. pp 37
4. **Edward P.S.**, Regupathikannan, J., Akila, S.P., Pragasan, L.A. (2024)- Predicting *Avicennia marina* plantation zones in India using Ecological Niche Modeling for carbon neutrality. *Conference Proceedings – International Conference on Sustainable Development - Bishop Heber College, Tiruchirappalli, Tamil Nadu*. ISBN: 978-81-969190-6-1, pp 47
5. Regupathikannan, J., **Edward P.S.**, Akila, S.P., Pragasan, L.A., (2024) -Bridging Biodiversity: Community Insights into Elephant Conservation and Conflict Resolution. *Conference Proceedings – EnviroSummit 2024: International Conference on Climate Action, Ecology & Environment - MIT World Peace University, Pune*. pp 49

## NEWSLETTER

1. **Edward, P. S.**, Regupathikannan, J., & Samson, A. (2025). Short note on the occurrence of the African Giant Snail in Chennai, Tamil Nadu. *Zoo's Print*, 40(3), 09-11.
2. **Edward, P. S.**, Regupathikannan, J., & Samson, A. (2025). Spatial Models and Strategies to Handle Invasive Species in India. *Newsletter of the NNHS*. 13(2), pp 7-8
3. **Edward P.S.**, Regupathikannan, J., Samson, A. (2024). Preserving Biodiversity: Combating Invasive Species in the Western Ghats Amidst Climate Change. *Aghanaashini Tales*. 1(2), pp.5-8
4. Samson, A., Balamurali, N., Princy, J. L., Beulahbah, J., Regupathikannan, J., **Edward, P. S.**, & Moinudheen, N. (2024). Note on the unusual feeding behavior of Wild Boar observed in Mudumalai Tiger Reserve, Tamil Nadu, India. *Zoo's Print*, 39(7), 23-24.

## POPULAR ARTICLES

1. <https://timesofindia.indiatimes.com/city/chennai/spotted-in-city-invasive-snail-species-poses-health-risks/articleshow/123776223.cms> - Coverage on African Giant Snail research in Chennai by Times of India, September 9, 2025
2. <https://thesouthfirst.com/health/invasive-giant-african-snail-spotted-across-chennai-raises-public-health-concerns/> - Coverage on African Giant Snail research in Chennai by South First, September 11, 2025
3. <https://www.thehindu.com/news/cities/Coimbatore/mudumalai-a-raptor-hotspot-with-58-species-recorded-since-2011/article68487805.ece/amp/> Coverage on Raptor Diversity in MTR research by THE HINDU, Coimbatore, August 04, 2024
4. <https://www.newindianexpress.com/states/tamil-nadu/2025/Jan/12/343-roadkills-in-10-months-at-mtr-in-nilgiris-says-study> Coverage on Wildlife Roadkill in MTR research by The Indian Express, January 12, 2025
5. <https://www.thehindu.com/news/national/tamil-nadu/researchers-warn-of-invasion-from-exotic-pet-species-in-tamil-nadu-due-to-trade/article70037408.ece>

## RESEARCH GRANTS AND FELLOWSHIPS

S. No	Course Description	Funding Agency	Project Tenure
1	<p><b>STUDENT PROJECT SCHEME Fellowship (SPS)</b></p> <p><b>Project Description:</b> A Green approach in the cultivation of <i>Chlorella</i> sp. using dairy and fish waste as a low-cost nutrient medium for producing biomass and bio-products.</p>	Tamil Nadu State Council for Science and Technology (TNSCST)	December 2022 - May 2023

## RESEARCH EXPERIENCE

S. No	Course Description	Institute / Organisation	Period
1	Research Internship	Tamil Nadu State Forest Department	June 2023 – August 2023
2	Research Scholar (M.Phil.)	Bharathiar University, Coimbatore	July 2023 – October 2024
3	Research Fellow	Centre for Landscape Ecology, Fedstan GMC Register Pvt Ltd, Chennai	August 2024 – August 2025

## CERTIFICATION COURSES / LICENSES/ ACADEMIC PART TIME COURSES

S. No	Course Description	Awarded By	Certificate No.
1	<b>ISO 14001:2015</b> - Environmental Management System EMS Internal Auditor Certification	SGS	SGS/CBE/ISO/05832
2	<b>ISO 22000:2018</b> - Food Safety Management System FSMS Internal Auditor Certification	TUV	8119116974/08
3	<b>M.A. (Master of Arts)</b> - Anthropology (2022 – 2024)	Tamil Nadu Open University	3019656
3	<b>PGDAW</b> - Postgraduate Diploma in Animal Welfare	IGNOU	IG38 - 139587
3	Certificate Course in Tribal Studies (2024)	IGNOU	473243

## PROFESSIONAL AFFILIATIONS

S. No	Organization	Awarded By
1	Certified Ecologist in Training (2024-2029)	Ecological Society of America
2	Student Member	British Ecological Society
3	Student Member	Bombay Natural History Society
4	Member	Indian Forum for Invasion Biology