# DR. NUR JULIANI SHAFIE

Senior Lecturer
Faculty of Science and Marine Environment
Universiti Malaysia Terengganu

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## QUALIFICATIONS

- Post-doctoral (Ecology and Epidemiology), Yale University
- Doctor of Philosophy (Ecology and Wildlife Management), Universiti Sains Malaysia
- Master of Science (Environmental Biology), Universiti Sains Malaysia
- Bachelor of Science (Animal Biology), Universiti Sains Malaysia

## FIELD OF RESEARCH

- Vertebrate Ecology
- Small mammal and bird ecology
- Public health

## RESEARCH INTEREST

- My main research interest concerns on the vertebrate ecology particularly the volant (bats), non-volant small mammals (rats, squirrels etc.) and birds. Besides, I am also interested in rodent-borne diseases such as leptospirosis in different habitat settings (urban, sub-urban and recreational forest) using intensive field and laboratory data. Current areas of interest include the ecology of animal hosts and sociological factors that involved in the transmission of *Leptospira* spp. at recreational forests (Sekayu and Lata Belatan) in Terengganu, Malaysia. Currently, I am collaborating with teams from Yale School of Public Health, USA and Federal University of Bahia, Brazil on eco-epidemiological of leptospirosis.

## RESEARCH PROJECTS

- Identification of pathogenic *Leptospira* spp. in small mammal host and knowledge towards leptospirosis among visitors at Sekayu recreational area, Terengganu
- Knowledge, attitude and practice towards rodent-borne diseases among public low-cost housing (PPR) community in Kuala Lumpur

- Ecology of volant and non-volant small mammals in Terengganu
- Diversity and distribution of birds at Mat Jintan, Kuala Nerus, Terengganu
- Ecology of fruit bats in Penang Island
- Ecology and distribution of birds and small mammals along Kerian River Basin, Perak

## EXPERT LINKAGES

- Universiti Sains Malaysia
- Universiti Pendidikan Sultan Idris
- Universiti Malaya
- Universiti Kebangsaan Malaysia
- Yale University, USA
- Federal University of Bahia, Brazil

## PROFFESIONAL MEMBERSHIP

- American Society of Tropical Medicine and Hygiene (ASTMH)

## GRANTS

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| Project | : | Understanding the influence of environmental and social factors on *Leptospira* transmission in urban areas of Dungun, Terengganu |
| Position | : | Project leader |
| Grant Name | : | Talent and Publication Enhancement Research Grant (TAPE-RG) |
| Status | : | Active |
| Amount | : | RM20,000.00 |

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| Project | : | Instilling good knowledge, better attitudes and practices on alleviating rodent-borne diseases among public low-cost housing (PPR) community |
| Position | : | Co-researcher |
| Grant Name | : | SEAOHUN Small Grants Program |
| Status | : | Active |
| Amount | : | RM40,000.00 |

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| Project | : | Ecology of Small Mammals in Terengganu |
| Position | : | Co-researcher |
| Grant Name | : | UKM-UMT Collaboration Grant |
| Status | : | Active |

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| Amount | : | RM40,000.00 |
| Project | : | Identification and biological study of *Leptospira* animal hosts and determination of effective control methods in Peninsular Malaysia |
| Position | : | Co-researcher |
| Grant Name | : | UKM-UMT Collaboration Grant |
| Status | : | Active |
| Amount | : | RM17,000.00 |
| Project | : | Model Eko-Politinomik Islam |
| Position | : | Co-researcher |
| Grant Name | : | Fundamental Research Grant Scheme (FRGS) |
| Status | : | Completed |
| Amount | : | RM98,000.00 |

# PUBLICATIONS

## Journal Article

1. Shafie NJ, Abdul Halim NS, Nor Zalipah M, Mohd Amin NAZ, Syed Esa SM, Shukor Md-Nor, Arnau Casanovas-Massana et al. (2021). Knowledge, attitude, and practices regarding leptospirosis among visitors to a recreational forest in Malaysia. *The American Journal of Tropical Medicine and Hygiene*, tpmd200306. DOI: https://doi.org/10.4269/ajtmh.20-0306
2. Hatta SNNF, Nelson BR, Shafie NJ, Zahidin MA & Abdullah MT (2018). Linkages between chiropteran diversity and ecosystem services for sustainable fragmented forest conservation. *Data in Brief*, 21, 2089-2094. DOI: https://doi.org/10.1016/j.dib.2018.11.058
3. Khalib NKA, Shafie NJ, Basri HH, Nelson BR & Abdullah MT (2018). Non-volant small mammal data from fragmented forests in Terengganu State. *Data in Brief*, 21, 1514-1520. DOI: https://doi.org/10.1016/j.dib.2018.10.061
4. Shafie NJ, Amirrudin A, Mohd Tajuddin A, Nurul Ahlam I & Gertrude D (2018). Bird assemblages in lowland dipterocarp forests of Tasik Kenyir and Setiu, Terengganu. *Journal of Sustainability Science and Management,* 13 (2), 43-56.
5. Ibrahim NS, Sham BHB, Shafie NJ & Ahmad A (2018). Species diversity of freshwater turtles and tortoises in Terengganu, Malaysia. *Journal of Sustainability Science and Management*, 1, 1-27.
6. Shafie NJ, Mohd Sah SA, Abd Mutalib AH & Nik Rosely (2017). General perceptions and awareness level among local residents in Penang Island towards bats conservation efforts. *Tropical Life Sciences Research*, 28(2): 31-44. DOI: https://doi.org/10.21315/tlsr2017.28.2.3
7. Nur Munira A, Nurul Salmi AL, Shahrul Anuar MS, Mohd Abdul Muin MA, Amirrudin A & Shafie NJ (2014). Diversity and temporal distribution of birds in rice-growing landscape, Northern Peninsular Malaysia. *Sains Malaysiana*, 43(4): 513-520.

8. Shafie NJ, Abdul Rahman NA, Mohd Sah SA, Nik Rosely NF, Maryam S (2014). Feeding behaviour of *Cynopterus sphinx* (Pteropodidae) under captive conditions. *Tropical Life Sciences Research*, 25(2): 53-59.
9. Azmy SN, Shahrul Anuar MS, Shafie NJ, Azman A, Zulkepli M, Muhamad Nor Akmal I & Mohd Shahir S (2012). Counting in the dark: Non-intrusive laser scanning for population counting and identifying roosting bats. *Nature Journal Scientific Reports*, 2: 524. DOI: https://doi.org/10.1038/srep00524
10. Nur Munira A, Abdul Latip NS, Mohd Sah SA, Shafie NJ & Khairuddin NL (2011). Avian diversity and feeding guild in secondary forest, oil palm plantation and paddy field in riparian area of Kerian River Basin, Perak, Malaysia. *Tropical Life Science Research*, 22(2): 61-84.
11. Nurul Liyana K, Razali R, Mohd Sah SA, Shafie NJ & Nur Munira A (2011). Population size of Lesser bandicoot (*Bandicota bengalensis*) in three different markets in Penang, Malaysia. *Tropical Life Sciences Research*, 22(2): 81-92.
12. Shafie NJ, Mohd Sah SA, Abdul Latip NS, Nur Munira A & Khairuddin NL (2011). Diversity pattern of bats at two contrasting habitat types along Kerian River, Perak, Malaysia. *Tropical Life Sciences Research*, 22(1): 13-21.

### Other Outputs

[Thesis, manuscript, books, reports, etc.]

1. Nur Juliani Shafie (2016). Ecological aspects of fruit bats (Megachiroptera) in Penang Island, Malaysia. Doctor of Philosophy Thesis. School of Biological Sciences, Universiti Sains Malaysia.
2. Nur Juliani Shafie (2011). Population distribution of small mamals along Kerian River Basin with emphasis on three different habitat types. Master Thesis. School of Biological Sciences, Universiti Sains Malaysia.
3. Nur Juliani Shafie (2008). The size-length frequency and the growth rate of the inner shell layer of *Perna viridis* (Linnaeus, 1758). Undergarduate Thesis. School of Biological Sciences, Universiti Sains Malaysia.
4. Nur Munira, A., Mohd Abdul Muin, M.A., Shahrul Anuar, M.S., Mohd Yusof, O., Shafie, N.J., Fatim Syakirah, M., and Nordin, A. (2014), Birds of Gunung Ledang in *Biodiversity of Gunung Ledang Mountaineering the nature.*
5. Nur Munira, A., Mohd Abdul Muin, M.A., Shahrul Anuar, M.S., Mohd Yusof, O., Shafie, N.J., Fatim Syakirah, M., and Nordin, A. (2014), Mammals of Gunung Ledang in *Biodiversity of Gunung Ledang Mountaineering the nature.*
6. Nur Munira, A., Wan Mohd Muhyuddin, W.I., Shafie, N.J., Nurul Salmi, A.L. and Shahrul Anuar, M.S (2012), Mapping of bird abundance and richness using GIS and bird feeding guild in two different habitat types in Kerian River Basin, Perak, Malaysia. in *Readings in Malaysia Geography*

## SUPERVISION

### Master Degree

Thesis Title : Identification of pathogenic Leptospira spp. in small mammal hosts and knowledge towards leptospirosis among visitors at Sekayu recreational

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| | | area, Terengganu |
| Student Name | : | Najma Syahmin binti Abdul Halim |
| Role | : | Main supervisor |
| Status | : | On-going |
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| Thesis Title | : | Spatial contrast of microchiropterans assemblages through acoustic call and conservation strategies in Setiu Wetland and Kenyir Forest |
| Student Name | : | Hasrulzaman bin Hassan Basri |
| Role | : | Co-supervisor |
| Status | : | On-going |
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| Thesis Title | : | Species diversity and vertical stratification of non-volant small mammals in inland and coastal forest of Terengganu |
| Student Name | : | Noor Aisyah binti A Rahim |
| Role | : | Co-supervisor |
| Status | : | Graduated |
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| Thesis Title | : | Distribution and local knowledge of freshwater chelonian in Terengganu with special emphasis on population size determination of *Dogania subplana* |
| Student Name | : | Noor Shahirah binti Mohd Ibrahim |
| Role | : | Co-supervisor |
| Status | : | Graduated |

## COURSE TAUGHT

- Population Ecology and Community (BDV3501)
- Invertebrate Diversity (BDV3005)
- Tropical Ecosystem (BDV3502)
- Vertebrate Biology (BDV3002)
- Ecology and Field Biology (BDV3502)

## LINKS

- SCOPUS ID: https://www.scopus.com/authid/detail.uri?authorId=57204958620
- WoS Researcher ID: https://publons.com/researcher/1818137/dr-nur-juliani-shafie/
- Researchgate: https://www.researchgate.net/profile/Nur-Shafie-6
- ORCID: https://orcid.org/0000-0001-9014-0370
- Google Scholar: https://scholar.google.com/citations?user=JiS5DRMAAAAJ&hl=en