



DR. AMIRRUDIN AHMAD

Senior Lecturer (Ecology)

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Academic Qualification

Ph.D (Ecology), University of St. Andrews, Scotland, UK

M.Sc (Biology), Universiti Sains Malaysia, Penang, Malaysia

B.Sc. (Hons) (Biology), Universiti Sains Malaysia, Penang, Malaysia

Research Areas

- 1) Ecology
- 2) Biodiversity
- 3) Taxonomy and systematics

Research Interest

Researches mainly focus on quantitative and qualitative ecology, supporting the management of aquatic and terrestrial resources in natural ecosystems: providing baseline information, evaluating the status of aquatic and terrestrial biodiversity of various group organisms, and identifying impacts of habitat degradation of natural ecosystems. Field survey is mainly conducted to acquire this information. Aiming to achieve sustainable utilization of natural resources and long term *in situ* conservation and reducing the impact of the development of the natural environment. Most field studies have been carried out in collaboration with Department of Forestry, Department of Fisheries and relevant NGOs.

Current Research Projects

1. Measuring species richness of inland and insular fauna
2. Species distribution patterns of native fauna in highly diverse ecosystem

Special Interest Group (SIG)

Professional Membership

Asian Society of Ichthyologist
Malaysian Fisheries Society

Awards

Publications

2017

Walton, S. E., Gan, H. M., Raghavan, R., Pinder, A. C. and A. Ahmad 2017. Disentangling the Taxonomy of the Mahseers (*Tor* spp.) of Malaysia: An Integrated Approach Using Morphology, Genetics and Historical Records. *Reviews In Fisheries Science & Aquaculture*.
<http://dx.doi.org/10.1080/23308249.2016.1251391>

2016

- Ng, P. K. L. and Amirrudin B. A. 2016. A new genus and new species for an unusual semi-terrestrial Potamid crab (Decapoda: Brachyura) with a bilobed mandibular palp from Peninsular Malaysia. *Journal Of Crustacean Biology*. 36(6): 823-832.
- Grismer, L. L., Wood, P. L. Jr., Syafiq, M. F., Badli-Sham, B. H., Rizal, S. A., Amirrudin B. A. & Quah, E. S. H. 2016. On the taxonomy and phylogeny of the skinks *Lipinia sekayuensis* Grismer, Ismail, Awang, Rizal, & Ahmad and *Lipinia surda* Boulenger from Peninsular Malaysia. *Zootaxa*. 4147 (1): 059–066.
- Choong, C.Y., Izzat-Husna, M., Amirrudin, B.A. 2016. Odonata (Insecta) fauna of Tasek Bera Ramsar Site, Pahang, Peninsular Malaysia. *Journal of Wildlife and Parks*. 31: 39-48.
- Faridah Mohamad, Azwarfarid Manca, Amirrudin Ahmad, Muhd Fawwaz Afham Mohd Sofa, Amirul Asyraf Alia'm, Noraznawati Ismail. 2016 Width-weight and length-weight relationships of the Tri-spine horseshoe crab, *Tachypleus tridentatus* (Leach 1819) from two populations in Sabah, Malaysia: implications for population management. *Journal of Sustainability Science and Management*. 11 (1): 1-13
- Jayaraj Vijaya Kumaran, Faisal Ali Anwarali Khan, Isham Azhar, Ean WeeChen, Mohd Rohanif Mohd Ali, Amirrudin Ahmad, A.M. Yusoff 2016. Diversity and conservation status of small mammals in Kelantan, Malaysia. *Songklanakarinn Journal of Science and Technology*. 38 (2), 213-220.
- Hamza, A., Wong, C.H., Amirrudin, B.A. 2016. Pulau Ling: an important seabird hotspot on the east coast of Peninsular Malaysia, *Journal of Asia-Pacific Biodiversity*. <http://dx.doi.org/10.1016/j.japb.2016.04.006>
- Sumarli, A., Grismer, L. L., Wood, P. L. Jr., Ahmad, A. B., Rizal, S. A., Ismail, L. H., Nur Amalina, M. I., Ahmad, N., Linkem, C. W. 2016. The first riparian skink

(Genus: *Sphenomorphus* Strauch, 1887) from Peninsular Malaysia and its relationship to other Indochinese and Sundaic species. *Zootaxa* 4173 (1): 029–044.

Walton, S. E., Amirrudin B. A., Gan, H. M., Bolland, J. D. 2016. A newly identified population of *Gambusia affinis* (Baird and Girard, 1853), a non-native invasive species, in Lake Kenyir, Malaysia: implications for management. *BioInvasions Records* 5:

2015

Noor Izwan, A. Amirrudin, B. A. 2015. Estimating ants (Hymenoptera: Formicidae) diversity of Tasik Bera, Pahang, Peninsular Malaysia. *Journal of Wildlife and Parks* 30: 1-14.

M. Fahmi-Ahmad, S. A. Rizal & Amirrudin, B. A. 2015. Ichthyofaunal Diversity of Tasek Bera, Pahang, Peninsular Malaysia. *Journal of Wildlife and Parks* 30: 27-44.

Ho, J.K.I., M. Plath, B.W. Low, J.H. Liew, Y. Yi, Amirrudin, A., H.H. Tan, D.C.J. Yeo, S. Klaus. 2015. Shoaling behaviour in the pygmy halfbeak *Dermogenys collettei* (Beloniformes: Zenarchopteridae): comparing populations from contrasting predation regimes. *Raffles Bulletin of Zoology* 63: 237–245

Amirrudin, A., Zakaria-Ismail, M. 2014. Additional native fish fauna of rivers and streams flowing into Temengor reservoir, Perak, Malaysia. *Malayan Nature Journal* 66(4): 407-419.

2014

Amirrudin, B. A., M. Fahmi-Ahmad, Syed, A. R. 2014. Fish diversity in small streams of Sungkai Wildlife Reserve, Perak, Malaysia. *Journal of Wildlife and Parks* 29: 13-21

Nur Afny Syazwany Abu Zarim, Amirrudin, B. A. 2014. Checklist of butterfly fauna at Kuala Lompat, Krau Wildlife Reserve, Pahang, Malaysia. *Journal of Wildlife and Parks* 28 : 63-72.

Noor Izwan, A., Amirrudin, B.A. 2014. Diversity of ants (Hymenoptera: Formicidae) at Kuala Lompat, Krau Wildlife Reserve, Pahang, Malaysia. *Journal of Wildlife and Parks* 28 : 31-39.

M Izzat-Husna, Amirrudin, B. A. 2014. Odonata (Class Insecta) of Sungkai Wildlife Reserve, Perak, Malaysia. *Journal of Wildlife and Parks* 29 : 23-30

M Izzat-Husna, Syed, A. R., Amirrudin, A. 2014. Notes on scorpion fauna in Kuala Lompat, Krau Wildlife Reserve, Pahang, Malaysia. *Journal of Wildlife and Parks* 8: 121-129.

Abd Mutalib, A. H., Fadzly, N., Ahmad, A. and Nasir, N. 2014. Understanding the nesting ecology and behaviour of green marine turtles at Setiu, Terengganu, Malaysia. *Marine Ecology* doi: 10.1111/maec.12197

- Grismer, L.L., Lukman H. B. I., Muhammad-Taufik, A., Syed, A. R. & Amirrudin. B. A. 2014. A new species of lowland skink (genus *Lipinia* Gray, 1845) from northeastern Peninsular Malaysia. *Zootaxa* 3821 (4): 457–464.
- Nur Munira, A., Nurul Salmi, A. L., Shahrul Anuar, M.S., Muin, M.A. M. A., Amirrudin, A. Nur Juliani, S. 2014. Diversity and Temporal Distribution of Birds in Rice-Growing Landscape, Northern Peninsular Malaysia. *Sains Malaysiana* 43(4): 523-520.
- Grismer, L. L., Wood, P. L. Jr., Amirrudin, B. A., Sumarli, A. S.-I., Vazquez, J.J., Lukman H. B. I., Nance, R., Mohd-Amin, M. A. B., Mohamad, N. A. B. O., Syed, A. R., Kuss, M., Murdoch, M. & Cobos, A. 2014. A new species of insular Rock Gecko (Genus *Cnemaspis* Strauch, 1887) from the Bidong Archipelago, Terengganu, Peninsular Malaysia. *Zootaxa* 3755 (5): 447–456

2011

- Magurran, A. E., Khachonpisitsak, S. and Ahmad, A. B. 2011. Biological diversity of fish communities: pattern and process. *Journal of Fish Biology* 79: 1393–1412. doi: 10.1111/j.1095-8649.2011.03091.x
- Wahizatul, A. A., Long, S. H. and Ahmad, A. 2011. Composition and distribution of aquatic insect communities in relation to water quality in two freshwater streams of Hulu Terengganu, Terengganu. *Journal of Sustainability Science and Management* 6(1): 148–155

Academic Supervision

PhD

Role: Co-supervisor

Name of student: Ms. Nur Amalina Mohd Izam

Project title: Sustainability assessment of coastal zone in Langkawi Geopark, Kedah, Peninsular Malaysia

Year graduated: Ongoing (at Universiti Kebangsaan Malaysia)

Role: Co-supervisor

Name of student: Ms. Nur Munira Azman

Project title: Biological and Functional Diversity of Bird Species Community in Peninsular Malaysia

Year graduated: 2017 (at Universiti Sains Malaysia)

MSc

Role: Main Supervisor

Name of student: Mr. Mohamad Aqmal Mohd Naser

Project title: Ichthyodiversity in rice agroecosystem in Seberang Prai Tengah, Penang

Year graduated: Ongoing (at Universiti Malaysia Terengganu)

Role: Main Supervisor

Name of student: Mr. Baizul Hafsyam Badli Sham

Project title: On the diversity and habitat preference of anuran fauna (Amphibia: Anura) at Sekayu lowland forest, Terengganu

Year graduated: Ongoing (at Universiti Malaysia Terengganu)

Role: Main Supervisor

Name of student: Ms. Noor Shahirah Mohd Ibrahim.

Project title: Diversity and species composition of freshwater turtles and tortoises at selected lowland streams in Terengganu

Year graduated: Ongoing (at Universiti Malaysia Terengganu)

Role: Main Supervisor

Name of student: Ms. Nur Afny Syazwany Abu Zarim

Project title: Butterfly diversity in lowland forest of Sekayu, Terengganu

Year graduated: Ongoing (at Universiti Malaysia Terengganu)

Role: Main Supervisor

Name of student: Muhammad Fahmi Ahmad

Project title: Analysing intra-habitat and species group diversity of freshwater fishes in Peninsular Malaysia

Year graduated: 2017

Role: Main Supervisor

Name of student: Mr. Noor Izwan Anas

Project title: Assessing species richness of ants (Hymenoptera: Formicidae) in selected lowland forests of Peninsular Malaysia

Year graduated: 2017

Role: Main Supervisor

Name of student: Mr. Muhammad Izzat Husna Ahmad Zaini

Project title: Species richness and diversity of Odonata (Class Insecta) in Sekayu lowland forest, Terengganu

Year graduated: 2017

Role: Co-Supervisor

Name of student: Ms. Siti Najwa Mohd Sawawi

Project title: Sea-turtle hatchery management: assessing the proper relocation methods and the occurrence of fungi on failed eggs of green turtle (*Chelonia mydas*)

Year graduated: Ongoing (at Universiti Sains Malaysia)

Role: Main Supervisor

Name of student: Ms. Amirah Azizah Zakaria

Project title: Taxonomic diversity and abundance of lizards in contrasting wetland and dryland ecosystem

Year graduated: Ongoing (at Universiti Malaysia Terengganu)

Course Taught

Field Ecology (BDV4801), (Undergraduate), UMT
Biology Vertebrata (BDV3002), (Undergraduate), UMT

Links

https://www.researchgate.net/profile/Amirrudin_Ahmad/contributions

<https://scholar.google.com.my/citations?hl=en&user=sTjSgOkAAAAJ>