

CURRICULUM VITAE



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Education

1. Bachelor Sc. (Environmental and Occupational Health) UPM, 2003
2. Master Environmental Management, UPM, 2006
3. Phd (Environmental Sc), UEA, Norwich, UK, 2011

Areas of Interest

1. Waste management
2. Geographical Information System (GIS)
3. Environmental Health, Soil and groundwater pollution

Professional Qualification/ Membership/ Affiliation

1. Malaysia Board of Technologists (MBOT)
2. Institution of Geospatial and Remote Sensing Malaysia (IGRSM)

Appointments (Inside and Outside UPM)

Date	Designation	Remarks
1. March 2024	Head of Department, Environmental & Occupational Health, Faculty of Medicine & Health Sciences, UPM	
2. 2018 - present	Honorary Secretary of UPM Academic Officer Society	
3. 2018 - present	President, Environmental and Occupational Health Society	
4. 2018 - present	Chief Editor, Asia Pacific Journal of Environmental and Occupational Health	
5. 2012 - present	UPM Accreditation Panel, Code of Practice for Programme Accreditation (COPPA), University Putra Malaysia, 2012 – present	

Publications

Journals (in 5 years)

2024

1. Josfirin Uding Ranga, Sharifah Norkhadijah Syed Ismail, Irniza Rasdi and Karmegam Karuppiah. Estimation of Leachate Volume and Treatment Cost Avoidance Through Waste Segregation Programme in Malaysia. *Pertanika J. Sci. & Technol.* 32 (1): 339 - 364 (2024).
2. He, Y., Zaremohzzabieh, Z., Rahman, H.A., Ismail, S.N.S., Bin-Qiang, J. Applying participatory research in solid waste management: A systematic literature review and evaluation reporting. *Journal of Infrastructure, Policy and Development*, 2024, 8(5), 5072.

2023

3. Hamid, J.A., Juni, M.H., Manaf, R.A., Ismail, S.N.S., Ying, L.P. (2023). Factors associated with the spatial accessibility of healthcare services measured by the floating catchment area (FCA)-based method: A scoping review. *Medical Journal of Malaysia* this link is disabled, 2023, 78(1), pp. 109–117.
4. Noor, M.T.M., Shahar, H.K., Baharudin, M.R., Ismail, S.N.S, Abdul Manaf, R., Md Said, S., Ahmad, J., Muthiah, S.G. (2023). A Systematic Review on an Optimal Dose of Disaster Preparedness Intervention Utilizing Health Belief Model Theory. *Pertanika Journal of Science and Technology* 2023, 31(1), pp. 149–159
5. Aida Soraya Shamsuddin, Sharifah Norkhadijah Syed Ismail, Nur Maizatul Idayu Othman, Nor Hafizah Zakaria, Teh Sabariah Abd Manan, Muhamad Ariff Ibrahim, Maisarah Abdul Mutalib (2023). Human health risk assessment of nitrate in private well waters of shallow quaternary alluvial aquifer. *Environ Geochem Health*.
6. Sharifah Norkhadijah Syed Ismail, Nurul'izzah Mohd Nasir, Emilia Zainal Abidin, Josfirin Anak Ranga. Exploring Urban Residents' Understanding, Attitudes and Behaviors Towards Disaster Waste Management: A Survey- based Study. *Mal J Med Health Sci* 19(SUPP10): 19-31, Sept 2023.
7. Sharifah Norkhadijah Syed Ismail, 'Aliah Abdul Rahman Law, Irniza Rasdi, Aida Soraya Shamsuddin. The Role of Knowledge and Attitude on Waste Recycling Practices During the Post-pandemic Covid-19 Period Among Selected Communities in Selangor. *Mal J Med Health Sci* 19(SUPP10): 58-72, Sept 2023.
8. Sharifah Norkhadijah Syed Ismail, Lee Yi Jia, Nor Eliani Ezani, Aida Soraya Shamsuddin, Nurulain Mustafa Udin, Josfirin Uding Ranga (2023). Unveiling Youth's Perceptions and Behaviors Towards Plastic Usage and Management Amidst the COVID-19 Pandemic: A Knowledge, Attitudes, and Practices (KAP) Study. *Mal J Med Health Sci* 19(SUPP10): 116-127, Sept 2023.
9. Sharifah Norkhadijah Syed Ismail, Nurul Azwa Muhamad Tamrin, Emilia Zainal Abidin, Irniza Rasdi, Aida Soraya Shamsuddin, Nurulain Mustafa Udin. Assessing the Impact of COVID-19 on Solid Waste Generation and Environmental Health Footprint: A Case Study. *Mal J Med Health Sci* 19(SUPP10): 128-138, Sept 2023.

2022

10. Ranga, J.U., Ismail, S.N.S., Rasdi, I., Karuppiah, K. (2023). Contribution of waste segregation to GHG emissions, land usage, and health risk of NMVOC exposure: a study in Malaysia. *Journal of Material Cycles and Waste Management*, 2023, 25(1), pp. 181–197
11. Fadhillah, W., Imran, N.I.N., Ismail, S.N.S., Jaafar, M.H., Abdullah, H. (2022). Household solid waste management practices and perceptions among residents in the East Coast of Malaysia. *BMC Public Health*, 2022, 22(1), 1.
12. Ranga, J.U., Ismail, S.N.S., Rasdi, I., Karuppiah, K. (2022). Waste Management Costs Reduction and the Recycling Profit Estimation from the Segregation Programme in Malaysia. *Pertanika Journal of Science & Technology*. 2022, 30(2), pp. 1457–1478
13. Almansi, K.Y., Shariff, A.R.M., Kalantar, B., ...Ismail, S.N.S., Ueda, N. (2022). Performance Evaluation of Hospital Site Suitability Using Multilayer Perceptron (MLP) and Analytical Hierarchy Process (AHP) Models in Malacca, Malaysia. *Sustainability (Switzerland)*, 2022, 14(7), 3731.

14. Kulwant, K.K., Said, S.M., Ismail, S.N.S., Ying, L.P. (2022). Risk Factors of Unfavourable TB Treatment Outcomes in Hulu Langat, Selangor. *Malaysian Journal of Medicine and Health Sciences*, 2022, 18(1), pp. 52–60.
15. Shamsuddin AS, Mohd Abu Bakar WA, Syed Ismail SN, Jaafar NH, Mohd Yassin W, Norhizat M. A review of spatial analysis application in childhood malnutrition studies. *Malays J Med Sci*. 2022;29(5):24–38. <https://doi.org/10.21315/mjms2022.29.5.4>.
16. Mohd Tariq Mhd Noor, Hayati Kadir Shahar, Mohd Rafee Baharudin, Sharifah Norkhadijah Syed Ismail, Rosliza Abdul Manaf, Salmiah Md Said, Jamilah Ahmad and Sri Ganesh Muthiah (2022). A Systematic Review on an Optimal Dose of Disaster Preparedness Intervention Utilizing Health Belief Model Theory. *Pertanika Journal of Science & Technology*. DOI: <https://doi.org/10.47836/pjst.31.1.10>.
17. Josfirin Uding Rangga, Sharifah Norkhadijah Syed Ismail, Irniza Rasdi, Karmegam Karuppiyah (2022). Contribution of waste segregation to GHG emissions, land usage, and health risk of NMVOC exposure: a study in Malaysia. *Journal of Material Cycles and Waste Management*. <https://doi.org/10.1007/s10163-022-01530-6>.
18. Mhd Noor MT, Kadir Shahar H, Baharudin MR, Syed Ismail SN, Abdul Manaf R, Md Said S, et al. (2022) Facing flood disaster: A cluster randomized trial assessing communities' knowledge, skills and preparedness utilizing a health model intervention. *PLoS ONE* 17(11): e0271258. <https://doi.org/10.1371/journal.pone.0271258>.
19. Farah Farhana A, Irniza R, Emilia ZA, Sharifah Norkhadijah SI, Suwankhong D. Workplace Sedentary Behaviour and Work-related Quality of Life Among Office Workers. *Malaysian Journal of Medicine and Health Sciences*. *Sci* 18(SUPP5): 53-61, Apr 2022 53-61.

2021

20. Aida Soraya Shamsuddin, Sharifah Norkhadijah Syed Ismail, Emilia Zainal Abidin, Ho Yu Bin, Hafizan Juahir, Wan Azdie Mohd. Abu Bakar. Application of GIS-based DRASTIC model approaches in assessing groundwater vulnerability for shallow alluvial aquifer deposited. *Arabian Journal of Geosciences* (2021) 14:2693 <https://doi.org/10.1007/s12517-021-08865-8>.
21. Mohd Hafiz Rahima, Nazri Che Dom, Sharifah Norkhadijah Syed Ismail, Zamzaliza Abd Mulud, Samsuri Abdullah, Biswajeet Pradhan. The impact of novel coronavirus (2019-nCoV) pandemic movement control order (MCO) on dengue cases in Peninsular Malaysia. *One Health* 12 (2021) 100222.
22. R.A. Adnan, M.F. Ramli, H.F. Othman, Z.H. Asha'ri, S.N. Syed Ismail, S. Samsudin. The Impact of Sociological and Environmental Factors for Dengue Infection in Kuala Lumpur, Malaysia. *Acta Tropica* 216 (2021) 105834.
23. Nurulain Mustafa Udin, Sharifah Norkhadijah Syed Ismail, Vivien How, Emilia Zainal Abidin. Distribution of Pesticide Emission, Deposition and Transfer Among Pesticide Sprayers in Malaysian Agriculture Subsectors. *Mal J Med Health Sci* 17(SUPP8): 200-206, Oct 2021.
24. Khaled Yousef Almansi, Abdul Rashid Mohamed Shariff, Ahmad Fikri Abdullah and Sharifah Norkhadijah Syed Ismail. Hospital Site Suitability Assessment Using Three Machine Learning Approaches: Evidence from the Gaza Strip in Palestine. *Appl. Sci.* 2021, 11, 11054. <https://doi.org/10.3390/app112211054>
25. Sharifah Norkhadijah Syed Ismail, Emilia Zainal Abidin, Irniza Rasdi, Nor Eliani Ezani, Nazri Che Dom, Aida Soraya Shamsuddin. COVID-19: the Epidemiological Hotspot and the Disease Spread in Malaysia. *Mal J Med Health Sci* 17(SUPP8): 42-50, Oct 2021.
26. Amirul Aiman Helmi, Eliani Ezani, Sharifah Norkhadijah Syed Ismail, Irniza Rasdi. Temporal Analysis of Environmental Noise and Air Pollution Nearby a Government Hospital in Suburban Klang Valley, Malaysia. *Mal J Med Health Sci* 17(SUPP8): 200-206, Oct 2021.
27. Muhammad Afiq Brohan, Nazri Che Dom, Ahmad Razali Ishak, Samsuri Abdullah, Hasber Salim, Sharifah Norkhadijah Syed Ismail, Nopadol Precha. An analysis on the effect of coronavirus (COVID-19) pandemic movement control order (MCOS) on the solid waste generation in Peninsular Malaysia *Environmental Science and Pollution Research* <https://doi.org/10.1007/s11356-021-17049-6>.

28. Ng J.X., Abdullah R., Syed Ismail S.N., ELTurk M (2021). Ecological and Human Health Risk Assessment of Sediments near to Industrialized Areas along Langat River, Selangor, Malaysia. Soil and Sediment Contamination, VOL:30(4), page: 49 – 476, 2021.
29. Razali A., Syed Ismail S.N., Awang S., Praveena S.M., Zainal Abidin E. (2021). Distribution and source analysis of bioavailable metals in highland river sediment. Environmental Forensics, VOL: 22(44228), Page: 205 – 218, 2021.
30. Sharifah Norkhadijah Syed Ismail, Nur Syakirah Hanani Binti Suhaimi & Karmegam Karuppiyah (2021). Assessment of Shoppers Knowledge and Perception towards Plastic Bag Campaign in Kuala Lumpur. International Journal of Academic Research in Business and Social Sciences, 11(19), 81–97.
31. Ismail, S. N. S., Suhaimi, N. S. H. B., & Karuppiyah, K. (2021). Assessment of Consumer Participation and Behaviour towards the “No Plastic Bag Campaign” in Kuala Lumpur. International Journal of Academic Research in Business and Social Science, 11(19), 68–80.

2020

32. Nazri Che Dom, Ibrahim Ahmed Alhothily, Sharifah Norkhadijah Syed Ismail, Ahmad Farid Nazmi Abdul Halim, Siti Nazrina Camalxaman (2020). Data on Biology and Demographic Parameters of the Aedes albopictus From Dengue Outbreaks in Klang Valley, Malaysia. Data in Brief.
33. Azlini Razali, Sharifah Norkhadijah Syed Ismail, Suriyani Awang, Sarva Mangala Praveena & Emilia Zainal Abidin (2020). Mobilization, spatial distribution and ecological risk of bioavailable heavy metals in the surface sediment of rivers in the highland area, Environmental Forensics.
34. Azlini Razali, Sharifah Norkhadijah Syed Ismail, Suriyani Awang, Sarva Mangala Praveena & Emilia Zainal Abidin (2020). The impact of seasonal change on river water quality and dissolved metals in mountainous agricultural areas and risk to human health. Environmental Forensics. DOI: 10.1080/15275922.2020.1728434.

Conference Proceedings (in 5 years)

- 1.
- 2.

Books (If any)

1. Sharifah Norkhadijah Syed Ismail & Aida Soraya Shamsuddin (2024). Kesan COVID-19 Terhadap Kesihatan Persekitaran dan Pekerjaan. UPM Press. ISBN: 978-629-7590-83-7.
2. Sharifah Norkhadijah Syed Ismail (2021). Soal Jawab Pengurusan Bahan Kimia Berbahaya Di Tempat Kerja Anda. UPM Press. ISBN: 978-967-344-986-6.
3. Sharifah Norkhadijah Syed Ismail (2019). Management and Safety of Toxic substances Workbook. UPM Press. ISBN: 978-967-344-908-8.
4. Umi Raihana Abd Rahman, Sharifah Norkhadijah Syed Ismail, Emilia Zainal Abidin, Sarva Mangala Praveena (2019). The harmful effects of waste leachate to fish and human. UPM Press. ISBN: 978-967-344-919-4
5. Siti Zulaikha Rusmadi, Sharifah Norkhadijah Syed Ismail, Sarva Mangala Praveena (2018). Skin Whitening as the Notion of Beauty: The Risk among Young Malaysian. UPM Press. ISBN: 978-967-344-797-8.
6. Sharifah Norkhadijah, S.I. & Mohd Armi Abu Samah (2015). Meneroka interaksi dinamik dalam kesihatan persekitaran. Himpunan siri kajian di Malaysia. ISBN: 978-983-2408-29-1
7. Sharifah Norkhadijah, S.I. (2014) Mengurus Sisa Pepejal di Rumah. UPM Press. ISBN: 978-967-344-402-1.
8. Sharifah Norkhadijah Syed Ismail, Sarva Mangala Praveena, Emilia Zainal Abidin, Irniza Rasdi (2014). Phd dan Saya. Antara cita dan air mata. ISBN: 978-967-12680-0-1.
9. Irniza Rasdi, Emilia Zainal Abidin, Sharifah Norkhadijah Syed Ismail (2015). Mind Map: Control and Management of Infectious Diseases. ISBN: 978-967-13049.

Chapter in Books (If any)

1. Sarva Mangala Praveena , Kwan Soo Chen, and **Sharifah Norkhadijah Syed Ismail** (2015). New Methods to Assess Fecal Contamination in Beach Water Quality in C.W. Finkl and C. Makowski (eds.), Environmental Management and Governance: 65 Advances in Coastal and Marine Resources, Coastal Research Library 8, DOI 10.1007/978-3-319-06305-8_3, © Springer International Publishing Switzerland 2015
2. 10. Irozi, M.F.I., **Ismail, S.N.S.**, Praveena, S.M., Shamsuddin, A.S., Dom, N.C. (2022). The Contribution of Polluter Pays Principle (PPP) Approach on Environmental Pollution Reduction and Health Risk for Municipal Solid Waste (MSW). In: Samah, M.A.A., Kamarudin, M.K.A. (eds) Environmental Management and Sustainable Development. Springer, Cham. https://doi.org/10.1007/978-3-030-93932-8_6.

Research Grants

Current

1. Demonstrating the link between imported waste processing facilities with environmental and health impacts of toxic pollutants in Kuala Langat, Selangor.
2. Malaysian Youth One Health Workshop (MyOHW 2024)
3. Program Estecc Outreach 2.0 (NGO) 2020, Malaysian Youth Upcycle Challenge (MyYUC)
4. Malaysian Youth One Health Challenge (MyOHC 2020)
5. Environmental-occupational safety and health awareness program in prevention, detection and control of Hospital-acquired infections (HAI) in the newly constructed teaching hospital of UPM.

On-going

1. Demonstrating the link between imported waste processing facilities with environmental and health impacts of toxic pollutants in Kuala Langat, Selangor.
2. Malaysian Youth One Health Workshop (MyOHW 2024)

Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Demonstrating the link between imported waste processing facilities with environmental and health impacts of toxic pollutants in Kuala Langat, Selangor.	130,814	2023/24	Bffp Asia Pacific
2.	Malaysian Youth One Health Workshop (MyOHW 2024)	46,500	2023/24	MyOHUN (USAID)
3.	Program Estecc Outreach 2.0 (NGO) 2020, Malaysian Youth Upcycle Challenge (MyYUC)	RM 17,100	2020/21	MOSTI/YIM
4.	Malaysian Youth One Health Challenge (MyOHC 2020)	41,000	2019/20	MyOHUN (USAID)
5.	Environmental-occupational safety and health awareness program in prevention, detection and control of Hospital-acquired infections (HAI) in the newly constructed teaching hospital of UPM.	39,048	2018/19	Pfizer International LLC
6.	Sustainable river plan in Cameron Highland	29,728	2016/17	Sumitomo Foundation
7.	Cytotoxicity mechanism of glyphosate formulation with POEA and oil palm-based adjuvants on human epidermal cell line	103,000	2015/18	FRGS, KPT

Awards/ Recognition (Current)				
No.	Name of awards	Award Authority	Award Type	Year
1.	Putra Innocreative Competition 2023, Leveraging Linked-in and mini projects: A dynamic approach of internship learning experience and application	PiCTL, UPM	Silver medal	2023
2.	Virtual Innovation Competition 2023, "CELIK SAFETY!"	UiTM	Bronze medal	2023
3.	Putra Innocreative Competition, Putra InnoCreative Carnival in Teaching and Learning 2022, "Malaysian Youth One Health Challenge, Innovation contest to increase the knowledge about One Health & STEM	PiCTL, UPM	Silver medal	2022
4.	Putra Innocreative Competition, Putra InnoCreative Carnival in Teaching and Learning 2019, 16-17 Oct 2019, Universiti Putra Malaysia "Workbook"	PiCTL, UPM	Gold Medal	2019
5.	5th Korea Creative Invention Contest, (CiC 2018)	CiC, Korea	Silver medal	2018
6.	3rd International Invention Innovation Competition in Toronto, Canada, (iCAN 2018)	ICAN, Canada	Gold medal	2018
7.	Aspresiasi Karyawan/ Penerbit UPM. Kategori Penulis 2019 Muda Paling Aktif Universiti Putra Malaysia	Penerbit UPM		2019

Professional Services/ Consultation			
No.	Year	Title	Authority
1.	2021	Panel, Libat Urus Bersama Pemegang 2021 Taruh Kajian Pengukuhan Tadbir Urus Alam Sekitar Malaysia (Akademi Sains Malaysia & Kementerian Alam Sekitar dan Air)	Akademi Sains Malaysia & Kementerian Alam Sekitar dan Air
2.	2021	Panel, Forum Webinar COVID-19 (Institut 2021 Pengajian Sains Sosial, UPM)	Forum Webinar COVID-19 (Institut 2021 Pengajian Sains Sosial, UPM)
3.	1019	Panel, Semakan semula Dasar Pengurusan Sisa Pepejal Negara 2019, Jabatan Pengurusan Sisa Pepejal Negara, Kementerian Kesejahteraan Bandar, Perumahan dan Kerajaan Tempatan (KPKT)	KPKT

Student Supervision			
PhD (Main Supervisor)			
No.	Name	Title	Status

1.	Nurul Muhayuni Binti Mahayuddin	Assessment of environmental, 2018 health, safety, and economic impacts of e-hailing services towards sustainable health and wellbeing model in city of Kuala Lumpur	Ongoing
2.	Umi Raihana Binti Abdul Rahman	Integrated estuary vulnerability ecosystem modelling health risk: a case study of kemaman estuary	Ongoing
3.	Siti Zulaikha Binti Rusmadi	Cytotoxicity and genotoxicity of glyphosate-based herbicides toward human epidermal keratinocytes cell line (HACAT)	Ongoing
4.	Aida Soraya Bt Shamsudin	Nitrate in groundwater and cancer	Graduated
5.	Dora Esphylin	Investigating health effect of living near to municipal solid waste landfill in children using biomarker and GIS	Graduated
6.	Nurulain Bt Mustafa Udin	Pesticide and human health	Graduated

Master with Thesis (Main Supervisor)			
No.	Name	Title	Status
1.	Suhaimi Bin Mohd	Assessing the performance of solid waste management between the local authority services and private concessionaire in Selangor and its association on environmental pollution and human health	Graduated
2.	Josfirin Uding Anak Ranga	Assessment of health, environmental and economic impact from waste landfilling and segregation practice from 2015-2018 in 8 states in Malaysia	Graduated
3.	Azlini Binti Razal	Assessment of heavy metals contamination in water and sediments of Bertam river and its association with ecological and health risk in intensive agriculture area, Cameron Highlands	Graduated
4.	Amirah Bt Ahmad Roslan	Nitrate levels in well water and population health risk of different planting phases of paddy in Kota Bharu and Bachok, Kelantan, Malaysia	Graduated
5.	Aini Syuhaida Bt Abd Wahab	Water mimosa tolerance in water treatment plant	Graduated
6.	Biubwa Faki Ally	PM10 and children health living near to Municipal solid waste landfill in Zanzibar	Graduated
7.	Siti Rahmah Bt Abdul Rahman	Geo-Surveillance modeling: Outdoor air pollution and acute respiratory infection among	Graduated

- children living in a proximity to industrial area
- | | | | |
|----|--------------------------|--|-----------|
| 8. | Siti Zulaikha Bt Rusmadi | Association between heavy metals in skin whitening product with cell damage and health risk | Graduated |
| 9. | Umi Raihana Ab Rahman | Heavy metals accumulation in Tilapia sp. Exposed to municipal waste landfill leachate and the health risk assessment for human consumption | Graduated |

Master without Thesis (Main Supervisor)			
No.	Name	Title	Status
1.	Siti Hajar Nur Fariesa Binti Mohd Saupi	Health Risk Assessment Of Odor Emission Towards The Local Residents Near Sanitary Landfill In Sungai Udang, Melaka	Graduated

Attended Seminars/ Workshops/ Forums both National and International			
No.	Year	Title	Organizers
1.			
2.			

Intellectuals Property			
Patent Granted			
No.	Date	Patent No.	Name
1.	2017	(PI2017704536) / Universiti Putra Malaysia	Emilia ZA, Karmegam Karuppiah, Irniza Rasdi, Syed 2017 Ismail SN, Praveena SM (2017). An Ergonomically Designed Fruit Collection Basket

Patent Field			
No.	Date	Patent No.	Name
1.	2018	Copyright: (LY2018006910) / Universiti Putra Malaysia	Syed Ismail SN; Vivien How, Emilia ZA (2018). Panduan Penggunaan Racun Perosak - Booklet Literacy Work
2.	2017	AR2017004148/ Universiti Putra Malaysia	Syed Ismail SN; Emilia, Praveena SM, Irniza Rasdi, 2017 Karmegam Karuppiah. Swivel Dustbin