



SITI MARIAM BINTI MUHAMMAD NOR

Lecturer

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QUALIFICATIONS

- Doctor of Philosophy (Environment Sustainability), University of Edinburgh, 2018
- Master of Science (Plant Genetics Resource Management), Universiti Kebangsaan Malaysia, 2007
- Bachelor of Applied Science (Conservation and Management of Biodiversity), Kolej Universiti Sains & Teknologi Malaysia (KUSTEM), 2005

FIELD OF RESEARCH

- 1 Environmental Sustainability
- 2 Ecology
- 3 Mangrove Ecology

RESEARCH INTEREST

My research focuses on mangrove ecology primarily the interrelationship between mangrove plants with their environmental parameters, specifically on mangrove plants biomass and environmental factors that govern the biomass. I am also doing research on mangrove species around Terengganu coastal area for the past 10 years. Given my deep interest in how mangroves respond to climate change, I did flooding experiment to see the impact of sea-level rise on mangroves seedling (seedlings are the most affected by the increasing of tidal water). This experiment had been done during my PhD study. I explored the ecophysiology of mangroves seedlings as respond to different flooding treatments (to mimic the sea-level rise scenario) i.e the seedlings growth rate, leaf area, biomass, photosynthesis and chlorophyll content. Recently, I started mangroves carbon research in the East Coast of Peninsular Malaysia, quantifying mangrove carbon storage in different mangrove setting, such as deltaic mangroves, riverine mangroves, lagoon mangroves and also island mangroves. I am looking forward to expanding my future research in blue carbon and looking at mangrove contribution in combating global warming.

RESEARCH PROJECTS

- Biomass accumulation and carbon stock of mangrove forest at Kelantan Delta and Setiu Lagoon, RM100, 000, Principle Investigator (NAHRIM) 2020 - 2021
- Sediment accretion rate at Kelantan Delta and Kuala Selangor mangrove forest: adaptation toward sea-level rise, RM100,000, Co-Researcher (NAHRIM) 2020-2021
- Carbon stock assessment of Sg Kertih Kemaman, Terengganu, RM20,000, Co-Researcher 2020-2021 (MNS)
- Phytoremediation ability of Potentially Toxic elements using Replanted Mangroves Species in Ecocare, Kertih, RM 40, 000, Co-Researcher, 2020-2021 (FRIM)
- The phenology of mangrove palm, *Nypa fruticans*, RM48,750, Co-Researcher (FRGS) 2010-2012
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EXPERT LINKAGES

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PROFFESIONAL MEMBERSHIP

- Malaysian Nature Society member (MNS)

GRANTS

Project : Biomass accumulation and carbon stock of mangrove forest at Kelantan Delta and Setiu Lagoon
Position : Principle investigator
Grant : NAHRIM
Name :
Status : Active / Completed
Amount : RM 100 000

Project : Sediment accretion rate at Kelantan Delta and Kuala Selangor mangrove forest:adaptation toward sea-level rise
Position : Co-researcher
Grant : NAHRIM
Name :
Status : Active / Completed
Amount : RM 100 000

Project : The phenology of mangrove palm, *Nypa fruticans*
Position : Co-researcher
Grant : FRGS
Name :
Status : Completed
Amount : RM 48, 750

AWARDS

- Hadiah Setia Bakti, 2018
- Anugerah Biasiswa *Skim Latihan Akademik Bumiputra (SLAB)*, 2008-2013

PUBLICATIONS

Journal Article

1. Nik Mohd Shibli Nik Jaafar, **Siti Mariam Muhammad Nor**, Wan Bayani Wan Omar & A.Aldrie Amir. (2020). Mangroves of the east coast of Peninsular Malaysia. *Malayan Nature Journal*. 72(4): 441-450.
2. Jamilah mohd Salim, Gaik Ee Lee, Muhammad Razali Salam, Salwa Shahimi, Elizabeth Pesiu, Jarina Mohd Jani, Nurul Amira Izaty Horsali, Rohani Shahrudin, **Siti Mariam Muhammad Nor**, Ju Lian Chong, Faridah Mohamad, Akmal Raffi, Dome Nikong. (2020). A checklist of vascular plants and uses of some species for livelihood-making in Setiu Wetlands, Terengganu, Malaysia. *Phytokeys*. 160 :7-43
3. **Muhammad-Nor, S. M.**, Huxham, M., Salmon, Y., Duddy, S. J., Mazars-Simon, A., Mencuccini, M., & Jackson, G. (2019). Exceptionally high mangrove root production rates in the Kelantan Delta, Malaysia; An experimental and comparative study. *Forest Ecology and Management*, 444, 214–224.
4. **Siti Mariam Muhammad Nor** & Jivitra Balu. (2019). Plant Conservation Status and Species diversity of Hutan Lipur Jeram Linang, Kelantan. *Journal of Undergraduate Research UMT*. 1(4): 37-50.
5. MS Jamilah*, AG Nur-Faiezah, A Siti Kehirah, **MN Siti Mariam** & MS Razali. (2014). Woody plants on dune landscape of Terengganu, Peninsular Malaysia *Journal of Tropical Forest Science*, 26 (2): 267-274

Conference Publication

- 1.
- 2.

Other Outputs

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

1. Physiological Ecology of Malaysian mangroves in response to sea level rise (Phd Thesis)
2. Penilaian Botani Tumbuhan Berbiji Di Bukit Bakar Kelantan (Msc Thesis)
- 3.

SUPERVISION

Doctor of Philosophy Degree

Thesis Title :
Student Name :
Role :
Status :

Thesis Title :
Student Name :
Role :
Status :

Master Degree

Thesis Title : The phenology of Nypa Palm
Student Name : Haramaini bt Arifin
Role : Co-supervisor
Status : Graduated

Thesis Title :
Student Name :
Role :
Status :

COURSE TAUGHT

- Ecology
- Mangrove Ecology
- Watershed and Recreational Forest
- Scientific writing in Biology

LINKS

- SCOPUS
- WoS
- Researchgate
- Academia.edu
- LinkedIn

- LiveDNA
- ORCID
- Google Scholar
- Facebook

OTHERS

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JOURNAL REVIEWER

- Journal of Sustainability Management (JSSM)
- Progress in Earth and Planetary Science
- UMT Undergraduate Research Journal