

## CURRICULUM VITEA (CV)

### 1. PERSONAL DATA

**Name** : Sazlina Md. Salleh

**Current Position** : Lecturer DS51 / Centre for Policy Research and International Studies. Universiti Sains Malaysia

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Dr Sazlina Salleh is a Senior Lecturer with the Centre for Policy Research and International Studies. She owns a solid teaching portfolio and research background in marine ecology, biodiversity and primary productivity. Her day-to-day workload in the research field involves understanding the impact of climate change on marine photosynthetic organisms mainly microalgae, coral and seagrasses. Over the course of 16 years working in Universiti Sains Malaysia, she conducted various research focusing on marine ecology, marine policy, biodiversity and conservation. While being associated with Centre for Policy Research and International Studies, she has established a keen interest in bridging science and policy, whereby my current research involves the implication of gazetted marine parks in high dense fisheries zone and selected developed coastal areas to local small-scale fishermen.

### 2. ACADEMIC QUALIFICATIONS

**1. Ph.D, Institute of Marine and Antarctic Studies, University of Tasmania (August, 2010).**

*Thesis Title: Effects of elevated temperatures on the photosynthetic rates and recovery from photoinhibition of the benthic microalgae of polar, temperate, and tropical ecosystems.*

**2. M.Sc. (Marine Science), Center for Marine and Coastal Studies, Universiti Sains Malaysia (August, 2002).**

*Thesis Title: The distribution and diversity of nudibranchs (Gastropoda: Opisthobranch) in the coral reef of Pemanggil Island, Johor.*

**3. B.App Sc. (Honors). School of Biological Sciences, Universiti Sains Malaysia (August, 1999).**

*Thesis Title: The primary production and the relationship with dominant phytoplankton in the coastal waters.*

### 3. WORKING EXPERIENCES

1. **Senior Lecturer DS 51-** Center for Policy Research and International Studies, Universiti Sains Malaysia (Current)
2. **Senior Science Officer C44** – Center for Marine and Coastal Studies, Universiti Sains Malaysia (2005-2011)
3. **Science Officer C41** – Center for Marine and Coastal Studies, Universiti Sains Malaysia (2002 - 2005)
4. **Graduate Assistant** – School of Biological Sciences, Universiti Sains Malaysia (1999 - 2001)

### 4. RESEARCH GRANTS

1. **Surviving The Turbid Waters : Acclimation, Adaptation and Protection Of Zooxanthellae In Scleractinian (PI).**  
Funded by Universiti Sains Malaysia ( August 2018 – July 2021)
2. **Acclimation, Adaptation and Stress Tolerance of Zooxanthellae in Turbid Water Corals (Co PI).**  
Funded by Universiti Sains Malaysia ( October 2018 – September 2021)
3. **Eutrophication in the Coastal Waters of SE Asia: Monitoring and Capacity Building.**  
Funded by NANO South East Asia Regional Research Project 2015 (NF – POGO Alumni Network for Oceans) (April 2016 – April 2017)
4. **Impact of climate change: Acclimation, adaptation and recovery of polar and tropical algae in extreme environments**  
Funded by Ministry of Science and Technology, Malaysia (Nov 2014 – Oct 2017)
5. **Creating Awareness amongst Youth on The Importance of Mangrove Ecosystem in Penang. (PI). Phase 2.**  
Funded by Shell Malaysia Sustainable Development Grants ( May 2012- April 2014)
6. **Creating Awareness amongst Youth on the Importance of Mangrove Ecosystem in Penang (PI).**  
Funded by Shell Malaysia Sustainable Development Grants (June 2013-June 2015)
7. **Investigating the Photosynthetic Characteristic of Tropical Benthic Diatom Inhabiting the Intertidal Mudflats. (PI).**  
Funded by the USM Short-Term Grants (December 2011 - November 2013)
8. **Marine Benthic Diatom Assemblages along Sediment and Environmental Gradients. (PI).**  
Funded by the Fundamental Research Grants Scheme (FRGS). (PI). (May 2013 – April 2015).
9. **A Study on Habitat Rehabilitation on the Coral Reefs at the Pulau Payar Marine Park. (Co-PI)**  
Funded by Jabatan Taman Laut Malaysia (JTLM) ( 1 April 2013 – 31 Disember 2013)
10. **Research into the Marine Biodiversity and Fisheries of Pulau Intan Besar and Pulau Intan Kechil (Langkawi) and their Potential in Becoming Marine Parks. (Co-PI)**

Funded by Jabatan Taman Laut Malaysia (JTLM) ( 1 April 2013 – 31 Disember 2013)

**11. Pembina atau Pembinasa : Kuasa Korporat dan Tanggungjawab Sosial Korporat (CSR) dalam Membentuk Kesepaduan Sosial. (Co-PI)**

Funded by Universiti Tempatan (Pusat Pengajian Tinggi Tempatan) ( 1 Feb 2012 – 31 Jan 2015)

**12. Coastal Scene Investigation Program: The Mangrove Ecosystem. (PI)**

Funded by the Penang State Government (2012)

**13. Mini Ekspedisi Pelayaran Saintifik 2012 bagi Zon Barat (co-PI)**

Funded by the Taman Laut Malaysia (2012)

**14. A preliminary investigation of microphytobenthos distribution and biomass from the intertidal mudflats around Penang Island. (PI).**

Funded by the USM Incentive Grant Scheme (2010)

**15. Taxonomy and Distribution of Soft Corals in Johor Marine Parks. (co-PI).**

Funded by the USM Fundamental Research Grant Scheme (FRGS) (2007 – 2010)

**16. Effects of Light on the Distribution Pattern of Soft Corals at Pulau Pemanggil, Johor. (co-PI).**

Funded by the Ministry of Science and technology, Malaysia Intensification of Research in Priority Areas (IRPA/ Short-terms GRANTS, USM) (2004 – 2006)

**17. The Culture of Nudibranch Species from the South China Sea. (co-PI).**

Funded by the Ministry of Science and technology, Malaysia Intensification of Research in Priority Areas (IRPA/ Short-terms GRANTS, USM) (2003 – 2005)

**18. The Morphological and Characteristic Differences The Species from the Genus Chromodoris in South China Sea (PI).**

Funded by the Ministry of Science and technology, Malaysia Intensification of Research in Priority Areas (IRPA/ Short-terms GRANTS, USM) (1 Mac 2003 – 28 February 2005)

**19. The Royal Scientific Expedition to South China Sea: Investigation and Planning. (PI).**

Funded by the Ministry of Science and technology, Malaysia Intensification of Research in Priority Areas (IRPA/ Short-terms GRANTS, USM) (16 June 2003 – 14 June 2005)

**20. Genetic Confirmation Of Hybridization Between *Crassostrea belcheri* (Sowerby) And *Crassostrea iredalei* (Faustino). (Co-PI)**

Funded by the Ministry of Science and technology, Malaysia Intensification of Research in Priority Areas (IRPA) (1 September 2002 – 31 August 2007)

**21. Comparative Growth and Survival of Hatchery-Produced Oyster Seeds between Two Culture Sites Located in West and East Malaysia. (Co-PI)**

Funded by the USM Short-Term Grants (1 July 2003 – 14 March 2006)

**22. The Development of Various Species of Nudibranch's Larva found in Johore Island. (Co-PI)**

Funded by the USM Short-Term Grants (1 March 2003 – 14 June 2005)

**23. Taburan dan Diversiti Stichopus (Echinodermata : Stichopodidae) di Kawasan Terumbu Karang Pulau Besar, Johor. (Co-PI)**

Funded by the USM Short-Term Grants (1 September 2002 –14 May 2005)

**24. Antarctica Biology Programme: Biodiversity Of Benthic Invertebrate Fauna In Antarctica Marine Ecosystem. (Co-PI)**

Funded by Akademi Sains Malaysia (1 August 2002 – 31 Julai 2007)

**5. POSTGRADUATE SUPERVISION**

- : **1. Mohd Firdaus bin Mutalib (PhD – 2017 – Ongoing).**  
Thesis Title: Distribution of nutrients and associated elements in estuarine and coastal ecosystems in Penang Island, Malaysia
- 2. Noor Alia Ahmad Nordin (MSc – 2014- Completed : April 2017).**  
Thesis Title: Spatial variation of benthic diatom and its relationship with environmental variables and anthropogenic effects
- 3. Nur Aqilah Binti Muhamad Darif (MSc – 2015- Completed : April 2018)**  
Thesis Title: Usage of chlorophyll fluorescence in investigating nutrient limitations and photosynthesis in microalgae
- 4. Aysha Mariam Binti Mohamed Javeed (MSc – 2015- Completed: May 2019)**  
Thesis Title: The ecological and taxonomical study microalgae in Teluk Bahang, Penang
- 5. Muhamad Hilal Bin Mohd Zainudin (MSc – 2015- Completed: October 2019)**  
Thesis Title: Antarctic and tropical microalgae photoadaptation and photoprotection strategies
- 6. Michelle Glory G Jonik (MSc – 2015- Completed: November 2019)**  
Thesis Title: The effect of different light exposure on the photosynthesis and recovery time of marine plants
- 7. Ayesha Binti Ismail (Msc – 2016- Ongoing)**  
Thesis Title: Songsong Island as Marine Protected Area: A study on Coral Reef and Policy.

**6. ACHIEVEMENTS/AWARDS / RECOGNITIONS**

- 1. Yayasan Penyelidikan Antartika Sultan Mizan Young Fellowship Award - 2014, (National)**
- 2. Hadiah Sanjungan USM -Kategori Penerbitan Journal 2011 (National)**
- 3. Best Oral Presentation- Polar Marine Diatom Workshop, Sydney 2011 (International)**
- 4. ICES/PICES Early Career Scientist Conference-Internatonal Travel Grant Award, 2007 (International)**
- 5. Ph.D Scholarship Program -Awarded by Universiti Sains Malaysia. (2005-2009).**

**7. CURRENT RESEARCHES AND PAST RELATED RESEARCHES**

1. Benthic diatom ecology and physiology
2. Physiology and photosynthesis of photosynthetic organisms
3. Sea Ice algae productivity and ecology
4. The diversity and taxonomy of benthic organisms in the coral reef ecosystem
5. Coral reef ecology and rehabilitation

## 8. SELECTED RESEARCH PUBLICATIONS

1. N. Kamphol, N. A. A. Abdul Mubin, **S Salleh**, M. H.M. Zainusin and M. Mohammad. 2019. H2O Songsong Jerai Expedition 2017: Creating a Corridor of Life and Biodiversity: A Proposal for New Marine Park in Kedah. Chapter 2.6 : Photosynthetic Activity of Corals in Pulau Songsong, Kedah. Department of Fisheries Malaysia. Ministry of Agriculture and Agro-Based Industry Marine Park and Resource Management Division.
2. **S. Salleh**, A. M. Javeed, N. Kamphol, N. A. A Abdul Mubin, M. H.M. Zainusin and M. Mohammad. 2019. H2O Songsong Jerai Expedition 2017: Creating a Corridor of Life and Biodiversity: A Proposal for New Marine Park in Kedah. Chapter 2.7 : Occurrence of *Ceratium furca* Bloom on the Coastal Waters of Corals in Pulau Songsong, Kedah. Department of Fisheries Malaysia. Ministry of Agriculture and Agro-Based Industry Marine Park and Resource Management Division.
3. S.Samad, M. Mohammad, **S.Salleh**, A. Darif. 2018. A Checklist of Free-Living Marine Nematodes at Different Ecosystem in Northern Straits of Malacca, Malaysia. *Scripta Biologica*. 10.20884/1.sb.2018.5.1.667.
4. A. Javeed, **S. Salleh**, A. Darif, M. Mohammad. 2018. Morphological Examination of The *Thalassiosira* Spp. in Teluk Bahang, Penang. *Scripta Biologica*. 10.20884/1.sb.2018.5.1.668
5. H. Marican, R. Edros, M. Mohammad, **S. Salleh** (2016). Antimicrobial activity of tropical soft corals found in the Northern Straits of Malacca. *International Journal of Engineering Technology And Sciences (IJETS)* Vol.6 (1). DOI: <http://dx.doi.org/10.15282/ijets.6.2016.1.1.1051>
6. M. Ravizza, D. Giosio, A. Henderson, M. Hovenden, M. Hudson, **S. Salleh**, J Sargison, J. Shaw, J. Walker , G. Hallegraeff (2016). Light as a key driver of freshwater biofouling surface roughness in an experimental hydrocanal pipe rig. *Biofouling*. Volume 32, Issue 6.
7. N. A. M. Darif, N. S. A. Samad, **S. Salleh**, M. Mohammad, N. A. A. Nordin, A. M. M. Javeed, M.G. G Jonik, M. H. M. Zainudin (2016). The Abundance and Spatial Distribution of Soft Sediment Communities in Tanjung Bungah, Malaysia: A Preliminary Study, *Tropical Life Sciences*, SUPP 1.7
8. M. Mohammad, Z. Apandi, H. A.I W. Marican, N. Kamphol, N. A. Abdul Mubin, **S.Salleh** and M. N. Ismail, The Identification of Octocorals from the Northern Region of Straits of Malacca, *Tropical Life Sciences Research*, 2016, SUPP 1, , 7
9. **S. Salleh**, M. Mohammad N. Nordin, H. Marican, A.Javeed, N. Darif & N. Samad (2015). *E-JOURNAL (IeJCIE)*. Universiti Sains Malaysia
10. M.Mohammad, **S. Salleh**, Z. Yasin and Tan Shau-Hwai (2014). Benthic Harpacticoid Copepod Assemblages In Merambong Shoal, Johor. *Malayan Nature Journal Special Issues on Merambong Shoal, Johor 1st Quarter*.
11. **S. Salleh**, M. Mohammad, Z.Yasin and Aileen Tan, S.H. Short-term effects of irradiance and temperature on benthic microalgae inhabiting soft sediment surface in the intertidal ecosystem.(2013). Paper presented at NRCT – JSPS Joint International Seminar, Chiangmai, Thailand
12. M. Mohammad, **S. Salleh**, Z. Yasin and Tan Shau-Hwai. (2013). New Records of Octocorals (Coelentrata: Octocorallia) From The Northern Region Of Straits Of Malacca, Malaysia. Paper presented at NRCT – JSPS Joint International Seminar, Chiangmai, Thailand.
13. M. Mohammad, **S. Salleh**, Z. Yasin and Tan Shau-Hwai. (2012) Octocorals From The Northern Region Of Straits Of Malacca. Paper presented at Seminar Kebangsaan Status Biodiversiti Marin Di Kepulauan dan Persisiran Pantai Malaysia.

14. **S. Salleh**, N. Nilamani, **M. Mohammad**, Z. Yasin and Aileen Tan, S.H. (2012). Marine Phytoplankton in the Northern Region of Straits of Malacca, Area 1: Pulau Songsong, Pulau Bidan and Pulau Telor. Poster presented at Seminar Kebangsaan Status Biodiversiti Marin Di Kepulauan Dan Persisiran Pantai Malaysia.
15. N. Nilamani, M. S. M. Yusof, Zulfikar, N. Razalil, I. C. Yaman, M. Khalil, **S. Salleh**, W.S. Pinn, T. C. Peng, Siti Balkhis Abu Bakar, Siti Hasmah Ismail, M. Mohammad, Z. Yasin and Aileen Tan Shau Hwai (2012). A Study On The Physico-Chemical And Nutrient Properties Of The Songsong Group Of Islands In The Northern Straits Of Malacca. Poster presented at Seminar Kebangsaan Status Biodiversiti Marin Di Kepulauan Dan Persisiran Pantai Malaysia.
16. A. McMinn, C. Ashworth, R. Bhagooli, A. Martin, P. Ralph, K. Ryan and **S. Salleh** (2012). Antarctic coastal microalgal primary production and photosynthesis. *Marine Biology* 159(12):2827-2837.
17. **S. Salleh** & A. McMinn (2011). Photosynthetic response and recovery of Antarctic marine benthic diatoms exposed to elevated irradiances and temperatures. *Polar Biology* 38:855-869.
18. **S. Salleh** & A. McMinn (2011). The effects of temperature on the photosynthetic parameters and recovery of two temperate benthic microalgae, *Amphora cf coffeaeformis* and *Cocconeis cf sublittoralis* (Bacillariophyceae). *Journal of Phycology* 47: 1413–1424.
19. **S. Salleh**, A. McMinn, M. Mohammad, S.H. Tan and Z. Yasin (2010). Effects of temperature on the photosynthetic parameters of Antarctic benthic microalgal community. *ASM Science Journal* 4(1).
20. A. McMinn, A., **S. Salleh**, W.A. Wan Asmadi, W, M. Mohammad, F. Merican, W. M. Wan Omar, F. Samad, W. Cheah, I. Idris, & Yasin, Z (2005). Quantum yield of the marine benthic microflora of near-shore coastal Penang, Malaysia. *Marine and Freshwater Research*, 56:1047-1053.
21. **S. Salleh**, Z. Yasin, S.H. Tan and M. Mohammad (2001) Two Nudibranch Species from the genus *Ceratosoma* (Chromodorididae) from the South China Sea. *Phuket Marine Biological Centre Special Publication* 25(2) 487-492
22. **S. Salleh**, Z. Yasin and S.H. Tan (2000). The Distribution and Diversity of Chromodorid Nudibranch in Sipadan Island, Borneo. *Phuket Marine Biological Center Special Publication* 21(2) 409-412.
23. **S. Salleh** & M. Mohammad (2010). Chapter 3. Pemuliharaan dan pemeliharaan ekosistem marin di Malaysia In *Pemeliharaan & Pemuliharaan Alam Sekitar*. {Eds} H.A. Rahman and R. Hashim. Penerbit Universiti Sains Malaysia. 41 -53 pp.
24. **S. Salleh**, Z. Yasin and S.H. Tan (2001). A Preliminary Description of *Hypselodoris bullocki* (Collingwood, 1881)(Family: Chromodorididae) from the South China Sea. *Proceedings of the Asia Pacific Conference on Marine Science & Technology*.
25. **S. Salleh**, Z. Yasin and S.H. Tan (1999). The Distribution and Diversity of Phyllidiidae Nudibranch in Pemanggil Island, Malaysia. *Proc. 10<sup>th</sup> JSPS Seminar on Marine and Fisheries Sciences*: 35-38pp.