

## **NOORZAMZARINA SULAIMAN (updated 20 August 2021)**

I went to Universiti Kebangsaan Malaysia (UKM) to gain a B.Sc. (Geology), a M.Sc. (Engineering and Environmental Geophysics) and for an PhD. (Geology/Geophysics). Currently, I am a senior lecturer cum researcher in Universiti Malaysia Kelantan, Malaysia. I have a profound research interest in geophysics, general geology and stratigraphy.

### **Personal**

Address:	Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, 17600 Jeli Kelantan Darul Naim, MALAYSIA
Phone:	+609-9477304 (office) / +6017-6376997 (mobile)
Email:	zamzarina@umk.edu.my, zamzaq88@gmail.com
Current position:	Senior Lecturer
Date appointed/confirmed:	21 Oct 2018
Date/Place of birth:	9 Sept 1988 / Perak, Malaysia
Gender/Race:	Female / Malay
Nationality:	Malaysian
Marital status:	Married

### **Fields of expertise and Research interests**

- Ancient fluvial geomorphology analysis using seismic reflection data.
- Interpretation of geophysical data including gravity, magnetic, resistivity and seismic refraction.
- Stratigraphy and structural geology

### **Appointment**

- Secretary, Geoscience Department, Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 July 2021- 31 March 2023
- Committee member of Promotion Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 July 2021- 31 March 2023
- Committee member of Landscape Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 July 2021- 31 March 2023
- Coordinator, Postgraduate Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 July 2021- 31 March 2023
- Secretary, Geoscience Department, Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 Sep 2019 - 31 July 2021
- Coordinator Final Year Project, Geoscience Department, Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 Sep 2019- 31 July 2021
- Committee member of Promotion Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 Sep 2019- 31 July 2021
- Committee member of Kelab Kebajikan Faculty of Earth Science, Universiti Malaysia Kelantan, Jeli Campus, Kelantan  
1 Sep 2019- 31 July 2021

## Education

- 2016 PhD (Geology), The National University of Malaysia  
 2012 M.Sc. (Engineering and Environmental Geophysics), The National University of Malaysia  
 2010 B.Sc. (Geology), The National University of Malaysia  
 2007 Matriculation, Perak Matriculation College, Gopeng 2007  
 2005 Malaysian Certificate of Education (*Sijil Pelajaran Malaysia*, SPM), Sek. Men. Sains Tengku Abdullah, Raub, Pahang 2005

## Career History

- Oct. 2018 – present Senior Lecturer  
 Faculty of Earth Science  
 Universiti Malaysia Kelantan Kampus Jeli
- Feb 2014 –May 2015 Demonstrator  
 Geophysics course  
 Department of Geology  
 Faculty of Science and Technology  
 Universiti Kebangsaan Malaysia

## Professional Membership

- Member, Geological Society of Malaysia (GSM), April 2020- present
- Member, National STEM Association (NSA), June 2021- present

## Teaching

	<b>Code &amp; Course</b>	<b>Role</b>	<b>Number of student</b>	<b>Semester/ Session</b>
	<b>Universiti Malaysia Kelantan (UMK)</b>			
1.	EGE 3083 Sedimentology	Lecturer	34	I 2018/2019
2.	EGE 2033 Stratigraphy and Earth History	Lecturer	34	I 2018/2019
3.	EFT 1152 Earth Material	Lecturer	58	II 2018/2019
4.	EGE 3093 Malaysia Geology and Fieldworks	Lecturer	34	II 2018/2019
5.	EGT 2043 Geophysics	Lecturer	42	II 2018/2019
6.	EGT 4173 Research Project II	Lecturer	35	I 2019/2020
7.	EGE 2033 Stratigraphy and Earth History	Lecturer	42	I 2019/2020
8.	EGE 4222 Exploration Petroleum	Lecturer	15	I 2019/2020
9.	EGT 2043 Geophysics	Lecturer	33	II 2019/2020
10.	EGT 3163 Project Research I	Lecturer	40	II 2019/2020
12.	EFT 1152 Earth Material	Lecturer	52	II 2019/2020
13.	EGE 4232 Petroleum Production	Lecturer	12	I 2020/2021
14.	EGT 3163 Research Project I	Lecturer	2	I 2020/2021
15.	EGT 4173 Research Project II	Lecturer	39	I 2020/2021
16.	EGE 2033 Stratigraphy and Earth History	Lecturer	32	I 2020/2021
17.	EGT 2043 Geophysics	Lecturer	51	II 2020/2021
18.	EGT 3163 Research Project I	Lecturer	33	II 2020/2021
19.	EGT 4173 Research Project II	Lecturer	1	II 2020/2021
20.	EFT 2163 Introduction to Geoscience	Lecturer	82	I 2021/2022
21.	EGT 4173 Research Project II	Lecturer	30	I 2021/2022
22.	EGE 2033 Stratigraphy and Earth History	Lecturer	51	I 2021/2022

**Contribution at International/National/University/Faculty/Department Level**

<b>Committee</b>	<b>Level</b>	<b>Duration</b>
Member of Geological Society of Malaysia	<b>National</b>	Lifetime membership
Member of National STEM Association	<b>National</b>	Lifetime membership
Committee member of Promotion, FSB	UMK	Jul 2021- Mac 2023
Committee member of Landscape, FSB	UMK	Jul 2021- Mac 2023
Coordinator, Postgraduate, FSB	UMK	Jul 2021- Mac 2023
Committee Member for Program Akademik Baharu (Program Geoteknologi Maklumat), FSB	UMK	27 Aug 2020-current
Committee Member for Program Akademik Baharu (Program Geopelancongan), FSB	UMK	27 Aug 2020-current
Committee (Program Book and Abstract Book), 3 <sup>rd</sup> International Conference on Tropical Resources & Sustainable Sciences (CTReSS 3.0)	UMK	24-25 May 2020
Head of Secretariat Committee for 2 <sup>nd</sup> International Conference on Tropical Resources and Sustainable Sciences (CTReSS 2.0)	UMK	18 Mar 2019 – 11 Aug 2020
Secretary Geoscience Programme, Faculty of Earth Science (FSB)	UMK	1 Sept 2019- 31 Jul 2021
Final Year Project (FYP) Coordinator, Geoscience Programme, FSB	UMK	1 Sept 2019- 31 Jul 2021
Committee member of Publication and Promotion, FSB	UMK	4 June 2020 – 30 June 2021
Committee member of Promotion, FSB	UMK	4 June 2020 – 30 June 2021
Committee member of Welfare and Recreation Club, FSB	UMK	4 June 2020 – 30 June 2021
Netball player for UMK Jeli Campus in Kejohanan Futsal dan Bola Jaring, Piala Pusingan KKSU	UMK	18 Jan 2020
Committee member of Program Fakulti Sains Bumi bersama Sekolah Siri II/2019- Sekolah Menengah Kebangsaan Jeli 2	UMK	18 Sept 2019
Technical Committee in Asia Geoscience Student Conference & Exhibition 2019	Universiti Teknologi PETRONAS	23-24 Sep 2019
Judges for Poster Presentation Session in Asia	Universiti Teknologi	23-24 Sep 2019

Geoscience Student Conference & Exhibition 2019	PETRONAS	
Program Director in Short Course Kingdom Software, FSB	UMK	18-19 Oct 2019
Demonstrator in Prof @ School Program, FSB	UMK	31 March 2019
Committee member in Lawatan oleh Dekan Fakultas Teknik Geologi, Universitas Padjadjaran ke FSB	UMK	25-26 Sep 2019
Committee member in Geoscience @ School Program	UMK	22 Oct 2019
Secretary for Bengkel Keselamatan Perdana, FSB	UMK	4 March 2019

### Seminar/Conference/Workshop/Course

<i>Attended / presented</i>	<b>Date</b>
Attended the Kursus Aplikasi QGIS: Modul Generik via online	17-19 August 2021
Oral presenter at 3 <sup>rd</sup> International Conference on Tropical Resources & Sustainable Sciences (CTReSS 3.0)	14-15 July 2021
Oral presenter at International Conference on Bioengineering and Technology (IconBET2021)	24-25 May 2021
Oral presenter at 2 <sup>nd</sup> International Conference on Tropical Resources & Sustainable Sciences (CTReSS 2.0)	10- 11 August 2021
RMIC Coffee Talk Series 2020: Online Intellectual Discourse Exploring Opportunities in Qatar: Education, Research and Business	20 May 2020
Oral presenter at National Geoscience Conference 2019 at The Palace Hotel, Kota Kinabalu Sabah, Malaysia	1-3 Oct 2019
Attended the Workshop for Pengenalan Keselamatan dan Kesihatan Pekerjaan di UMK kampus Jeli	19 Nov 2018
Oral presenter at the 11 <sup>th</sup> International Conference of Geosciences, King Saud University, Riyadh, Kingdom of Saudi Arabia.	12-14 May 2015
Attended the Workshop in Geodynamics & Petroleum Systems of Central Sundaland Basins at Universiti Teknologi Petronas- organised by Centre for Basin Studies, Universiti Teknologi Petronas.	3-5 March 2015
Poster presenter at the National Geoscience Conference 2014 at Hotel Grand Continental, Kuala Terengganu – organised by Geological of Society Malaysia.	13 -14 June 2014
Oral presenter at the 14 <sup>th</sup> Postgraduate Colloquium Faculty Science and Technology, Universiti Kebangsaan Malaysia at Faculty Science and Technology.	9 -10 April 2014
Attended the workshop on Trimble R5 and GNSS Data Post-processing with Trimble Business Center (TBC) software at Faculty of Sciece and Technology UKM.	13 -15 November 2013
Attended the 8th Malaysia Geoheritage Conference & 6th Indonesia-Malaysia Joint Geoheritage Conference at Hotel MS Garden, Kuantan.	5 - 7 October 2013

Attended the National Geoscience Conference 2013 at Kinta Riverfront Hotel & Suites, Ipoh - organised by Geological of Society Malaysia.	25- 26 May 2013
Attended the Seminar on Seismic Interpretation using Opendtect and Plugins at Universiti Kebangsaan Malaysia.	9 May 2013
Attended the SMT KINGDOM Software Training at Faculty of Science and Technology – organised by Geology Programme, Faculty Science and Technology.	22- 23 September 2012

### Reviewer for scientific manuscripts submitted to journal / conference

<b>No.</b>	<b>Manuscript title</b>	<b>Journal/ conference</b>	<b>Year</b>
1.	Use of claystone, zeolite, and activated carbon as a composite to remove heavy metals from acid mine drainage in coal mining	Asean Engineering Journal	2021
2.	Evaluation of tectonic characteristics of the western part of Shan Scarp (Payangazu-Pyinnyaung area) for future earthquake hazard assessment in Myanmar	Asean Engineering Journal	2021
3.	Comparison of water saturation models based on well logging data: A case study of MX Field in Malay Basin	Jurnal Kejuruteraan	2021
4.	Physical and chemical characteristics of bottom sediments from the Kelantan River, Tumpat, Kelantan	AIP Conference Proceedings (Web of Science, Scopus, and Inspec indexed publications)	2021
5.	PM10 and particulate PAHs composition in ambient air of the vicinity industrial and rural area	AIP Conference Proceedings (Web of Science, Scopus, and Inspec indexed publications)	2021
6.	Exploration of chromite in Wadi Kalbu area, Nizwa, Sultanate of Oman	AIP Conference Proceedings (Web of Science, Scopus, and Inspec indexed publications)	2021
7.	Public knowledge, perception and attitude towards e-waste recycling management in Kulim, Kedah	AIP Conference Proceedings (Web of Science, Scopus, and Inspec indexed publications)	2021
8.	A new method to estimate resistivity distribution of a shaly sand reservoir using new seismic attributes	Bulletin of the Geological Society of Malaysia/ Warta Geologi (Scopus/ ISI, Q4 IF 0.529)	2020
9.	Pencirian fizikal-kimia tanah baki syis dan granit dan kesan penambahan bentonit sebagai bahan pelapik	Sains Malaysiana (Scopus/ ISI, Q2 IF 0.250)	2020
10.	Shear joints and its relations with subsurface structures in Batu Melintang, Jeli, Kelantan, Malaysia	Journal of Tropical Resources and Sustainable Science	2020
11.	Properties and occurrences of rock coatings in Jeli, Kelantan as a record of environmental processes	IOP Conference Series: Earth and Environmental Science (Scopus)	2020
12.	Alluvium assessment of gold bearing layer	IOP Conference Series: Earth	2020

	using electrical resistivity method at Batu Melintang, Jeli, Kelantan	and Environmental Science (Scopus)	
13.	Investigation of seawater intrusion in coastal aquifers of Kelantan, Malaysia using Geophysical and hydrochemical techniques	IOP Conference Series: Earth and Environmental Science (Scopus)	2020
14.	Mapping of groundwater potential zones in a crystalline terrain using remote sensing, GIS techniques and field observations: A case study in parts of Tanah Merah, Kelantan, Malaysia	IOP Conference Series: Earth and Environmental Science (Scopus)	2020

### Assessor for research grant proposal

No.	Proposal title	Grant	Year
1.	A new hybrid gravity approach on Basin Modeling Improvement	YUTP Fundamental Research Grant (FRG)	2019
2.	High resolution seismic imaging through surface wave interferometry	YUTP Fundamental Research Grant (FRG)	2020

### Supervision

#### Undergraduate

	Name of student and Title of thesis/project	Role	Year enrolled	Status
1.	Muhammad Amiruddin bin Abd Samad Geology of Mukim Rusila, Marang and seismic interpretation of Kapal field, Terengganu Offshore	Main supervisor	2019	Completed
2.	Zaty Naadwaa binti Razali Geology of Bukit Buluh, Marang, Terengganu and 3-D seismic interpretation of Abu field of Terengganu Offshore	Main supervisor	2019	Completed
3.	Aimie Aisyah binti Othman Geology and analysis of slope stability using electrical resistivity imaging (ERI) in Lojing, Gua Musang, Kelantan	Main supervisor	2019	Completed
4.	Nurul Syazana binti Md Saliman Geology and evaluation of groundwater sources using electrical resistivity imaging (ERI) in Lojing, Gua Musang	Main supervisor	2019	Completed
5.	Ahmad Shafie bin Kamarin Geology and petrology of volcanic rock in Lojing area, Kelantan	Main supervisor	2019	Completed
6.	Muhammad Afnan Iman bin Kamilan Geology and landslides survey using electrical resistivity imaging method at	Main supervisor	2020	Completed

## Fraser Hill, Pahang

7.	Mohd Rifqi bin Gih Yew Hwa Geology and landslide susceptibility on top of Fraser Hill, Pahang using Geographic Information System	Main supervisor	2020	Completed
8.	Nooralieya Natasha binti Abd. Aziz Geology and landslide investigation using resistivity survey method at Kampung Sungai Tupai, Gua Musang, Kelantan	Main supervisor	2020	Completed
9.	Nurul Syazmira binti Roslan Geology and flood hazard analysis by using GIS of Kuala Krai town, Kuala Krai Kelantan	Main supervisor	2020	Completed
10.	Nureen Anis binti Ariffin Geology and granitic rocks analysis of Kuala Long, Jeli, Kelantan using Electrical Resistivity Imaging (ERI)	Main supervisor	2021	In-progress
11.	Muhammad Firuz Zubaidi bin Ahmad Sobri General geology and identification of landslide prone area using GIS in Gerik-Jeli Highway, Kelantan	Main supervisor	2021	In-progress

## Postgraduate

	<b>Name of student and Title of thesis/ project</b>	<b>Role</b>	<b>Year enrolled</b>	<b>Status</b>
1.	Nur Syahirah binti Rosmadi Calcareous nannofossil assemblages of the Late Oligocene to Early Miocene in Sabah	Co-supervisor	2019	In-progress

## Examiner

## Undergraduate

<b>No.</b>	<b>Title</b>	<b>Student's name</b>	<b>Year</b>
1.	Geology And Assessment Of Groundwater Potential Zones Using GIS Approach At Lojing, Gua Musang, Kelantan	Norshafika Binti Abdullah	2020
2.	Geology And Studies On Rock Coatings As A Record Of Climate Change In Kampung Kalai, Jeli	Nurul Aina Halimah Binti Abdul Rahim	2020
3.	Geology And Geochemistry Of Stream Sediment In Batu Melintang, Jeli Kelantan	Noor Syafiza Binti Mohd Khalim	2020
4.	Geological Mapping In Gua Musang Area 2 And Evaluation Of Seawater Intrusion In Shallow Aquifer Of Kota Bharu Area 2 Using Integrated Geophysical And Geochemical	Athirah Binti Tariq Umar	2020

## Methods

- |    |  |                                  |      |
|----|--|----------------------------------|------|
| 5. | Geological Mapping In Gua Musang Area 1 And Seawater Instrusion Studies In Kota Bharu Area 1 Using Geophysical And Geochemical Methods | Anis Syahira Binti<br>Mohd Mozli | 2020 |
| 6. | Geology And Geochemistry Evolution Of Igneous Rock In Banten, Indonesia  | Kevin Heinrich<br>Pesch          | 2020 |

## Research

## Publications (As of Mac. 2021)

<b>Researcher</b>	<b>Particular</b>
Name: Noorzamzarina Sulaiman	Other format: Sulaiman, N.
SCOPUS	57219360530
ORCID	orcid.org/0000-0003-4223-2611
Publons	publons.com/researcher/4171404
Number of citations	SCOPUS: 4, Google Scholar: 3
Index article (ESCI/ WOS/ SCOPUS/ IF)	1
Non-index article	1

*Peer reviewed journal*

- Noorzamzarina Sulaiman**, Umar Hamzah, Abd Rahim Samsudin . 2017.The Evolution of Channel System in the Northeast Malay Basin, Terengganu Offshore. *Jurnal Teknologi* 79 (6): 205-211.
- Noorzamzarina Sulaiman**, Umar Hamzah, Abd Rahim Samsudin. 2016. Facies Analysis and Stratigraphic Sequence of the Northeast Malay Basin, Offshore Terengganu, Malaysia. *ARPJN Journal of Engineering and Applied Sciences* Vol. 11, No.5: 2849-2858.

*Peer reviewed conference proceeding*

- Noorzamzarina Sulaiman**, Muhammad Amiruddin Safwan Abd. Samad, Nursufiah Sulaiman, Mohammad Muqtada Ali Khan, Nur Syahirah Rosmadi. 2020. Seismic Facies and Geological Structure Interpretation of the A-Field, Malay Basin, Malaysia. *IOP Conference Series: Earth and Environmental Science* 549.
- Nursufiah Sulaiman, **Noorzamzarina Sulaiman**, Saidah Izzati Mohd Shariffuddin, Siti Balqis Mohd Rafli and Ramadhan Ibnu Hassim. 2020. Assessment of Limestone Caves in Dabong, Kelantan using Systematic Studies for Potential Geoheritage Sites. *IOP Conference Series: Earth and Environmental Science* 549.
- Nur Syahirah Rosmadi, Nursufiah Sulaiman, **Noorzamzarina Sulaiman**, Junaidi Asis. 2020. The Preliminary Study of Late Oligocene to Early Miocene Calcareous Nannofossil in Klias Peninsula, Sabah. *IOP Conference Series: Earth and Environmental Science* 549.
- Siti Nurkhalidah Husainy, Nursufiah Sulaiman, Roniza Ismail, **Noorzamzarina Sulaiman**, Rohaya Langkoke, Meutia Farida. 2020. Paleontological Assessment Of Malawa Formation, Padanglampe, Barru Regency, South Sulawesi. *IOP Conference Series: Earth and Environmental Science* 596.
- Nursufiah Sulaiman, **Noorzamzarina Sulaiman**, Hamzah Hussin, Arham Muchtar Achmad Bahar, Wani Sofia Udin. 2020. Diversification of Igneous Rocks and Geoheritage Values in Pergau, Jeli Kelantan. *IOP Conference Series: Earth and Environmental Science* 549.



6. Arham Muchtar Achmad Bahar, Wani Sofia Udin, Hamzah Hussin, **Noorzamzarina Sulaiman**, Nursufiah Sulaiman. 2020. Geomorphosite Assessment of Renyok River, Jeli, Kelantan. *IOP Conference Series: Earth and Environmental Science* 549.

*Unpublished thesis/dissertation*

1. PhD. thesis with title; 'The Study Of Sequence Stratigraphy, River Morphology And Structure Analysis of the Bundi Block Malay Basin By Using 2-D Seismic Method and 3-D Seismic Time Slice Technique', School of Environmental and Natural Resources Sciences, Universiti Kebangsaan Malaysia, 2016.
2. Msc. thesis with title; 'Interpretation of Gravity Data of Northeast Area of Sirt Basin, Libya', School of Environmental and Natural Resources Sciences, Universiti Kebangsaan Malaysia, 2012.
3. BSc. dissertation with title; 'The Determination of Weathering Grade and Rippability Bodies Stones by using Refraction Seismic', School of Environmental and Natural Resources Sciences, Universiti Kebangsaan Malaysia, 2010.

### Referees

1. Dr. Nursufiah bte Sulaiman  
Head of Department  
Geoscience Department  
Faculty of Earth Science  
Universiti Malaysia Kelantan Jeli Campus  
17600 Jeli Kelantan  
Malaysia  
Tel (O): 09- 9477300  
Tel (H/P): 012-2223664  
Email: [nursufiah@umk.edu.my](mailto:nursufiah@umk.edu.my)
2. Prof. Madya Ts. Dr. Mohamad Faiz  
bin Mohd Amin  
Faculty of Earth Science  
Universiti Malaysia Kelantan Jeli Campus  
17600 Jeli Kelantan  
Malaysia  
Tel (O): 09- 9477340  
Tel (H/P): 011-32690788  
Email: [mohamdfaiz@umk.edu.my](mailto:mohamdfaiz@umk.edu.my)