CURRICULUM VITAE



PERSONAL DETAILS

Name	**:**	**SITI NORAFIDA BINTI JUSOH**
Gender	:	Female
Date of Birth	:	25-08-1983
Nationality	:	Malaysian
Permanent Address	:	35, Jalan Pulasan 4, Taman Pulai Hijauan, 81300 Skudai, Johor
Correspondend adress:		Department of Geotechnics and Transportation, Faculty of Civil Engineering, UTM Johor Bahru
Tel	:	013-7546450
E-mail	:	snorafida@utm.my
Website	:	http://people.utm.my/snorafida/
ID Staff	:	9969
Scopus ID	:	55092488900
ORCID	:	0000-0002-7132-0883
Expertise	**:**	**Tunnel Engineering, Numerical Modelling, Geotechnics,Soft soil, Soil-Structure Interaction**

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1	Doctor of Philosophy (Civil- Geotechnics) *Performance of Precast Bolted Tunnel Lining Through Physical and Numerical Modelling*	CIVIL ENGINEERING	Universiti Teknologi Malaysia	6.1.2010	15.11.2016
2	Master of Engineering (Civil – Geotechnics), CGPA: 3.64	CIVIL ENGINEERING	Universiti Teknologi Malaysia	18.12.2006	22.3.2008
3	Bachelor of Civil Engineering, CGPA: 3.73	CIVIL ENGINEERING	Universiti Teknologi Malaysia	2001	2006

WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION

1	Senior Lecturer	9 July 2018	current	Department of Geotechnics and Transportation, Faculty of Civil Engineering, Universiti Teknologi Malaysia
2	Quality Manager (DQM)	25 July 2025	current	SAMM 804 Civil Engineering Testing Unit (CETU)
3	Deputy Quality Manager (DQM)	19 July 2018	24 July 2025	SAMM 804 Civil Engineering Testing Unit (CETU)
4	Lecturer	14 December 2007	8 July 2018	Department of Geotechnics and Transportation, Faculty of Civil Enginering, Universiti Teknologi Malaysia
5	Tutor	11 September 2006	13 December 2007	Department of Geotechnics and Transportation, Faculty of Civil Enginering, Universiti Teknologi Malaysia
6	Assistant Fellow	15 July 2006	13 January 2009	Student College's Resident, Kolej Tun Hussein Onn, Universiti Teknologi Malaysia
7	Fellow	14 January 2009	August 2010	Student College's Resident, Kolej Tun Hussein Onn, Universiti Teknologi Malaysia

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

NO	NAME OF PROFESIONAL MEMBERSHIP	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	ROLE	YEAR
1	Tunnel and Underground Space Technical Division (TUSTD), Institution of Engineers Malaysia (IEM)	INTERNATIONAL	Co-opt member	2017 – 2018; 2018-2019; 2020-2021; 2023-2024
2	Society of Engineering Education (SEEM)	NATIONAL	Lifetime member	2018 - current
3	Persatuan Saintis Muslim Malaysia (PERINTIS)	NATIONAL	Lifetime Member	2016 - curernt
4	Society for Engineering Geology and Rock Mechanics (SEGRM)	NATIONAL	Member	2016 – current
5	Board of Engineers Malaysia, BEM	NATIONAL	Member	2022- current
6	Institute of Engineers Malaysia, IEM	NATIONAL	Member	2018 - current
7	National Disaster Management Association, NADIM	NATIONAL	Organizing Member	31.7.2021 – 31.08.2022

8	Pertubuhan IKRAM Malaysia	NATIONAL	Member	2016 - current
9	Persatuan Kakitangan Akademik UTM	UTM	Member	1.1.2019 - current
10	Badan Kebajikan Staf (BAKES) UTM	UTM	Member	1.1.2021 - current
11	Soft Soil Reseach Group, Construction Research Alliance, Universiti Teknologi Malaysia	UTM	Member	2016 - 2018
12	Geotechnics Research Group, Construction Research Alliance, Universiti Teknologi Malaysia	UTM	Member	2019 - current

COLLABORATION / MOU

NO	NAME OF MOU	LEVEL OF MOU (NATIONAL/ INTERNATIONAL)	ROLE	STARTING DATE	ENDING DATE
1	Memorandum Of Understanding Between Indonesian Society For Geoechnical Eng. (HATTI) and Faculty Of Civil Engineering, UTM	INTERNATIONAL	MEMBER	2016	2019
2	Memorandum Of Agreement (MoA), between Japan Shield Home (JHS) and Universiti Teknologi Malaysia (Soft Soil Research Group, Faculty Civil Engineeering, UTM) on Research And Development Of Screw Driving Sounding Test (new technology on site investigation)	INTERNATIONAL	MEMBER	2017	2020
3	Memorandum Of Understanding Between RUKYUS and Faculty Of Civil Engineering, UTM	INTERNATIONAL	MEMBER	2019	2021
4	Letter of Collaboration Between MRCB GEOGRE KENT SDN BHD and UTM	INTERNATIONAL	MEMBER	2021	2023
5	Letter of Collaboration Between Chongqing University and UTM	INTERNATIONAL	MEMBER	2019	2024
6	Memorandum Of Understanding Between TU Graz and Faculty Of Civil Engineering, UTM	INTERNATIONAL	MEMBER	2021	2023

7	Memorandum Of Understanding Between Chongqing University and UTM	INTERNATIONAL	LEADER	2025	2030
8	Memorandum Persefahaman (Mou) between Universiti Teknologi Malaysia (UTM) and Majlis Bandaraya Pulau Pinang (MBPP)	NATIONAL	MEMBER	2025	2030

TEACHING ACTIVITIES

UNDERGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No of Student
2007/2008	2	SAB1713	Soil Mechanics	3	66
		SAB1042	Engineering Laboratory - Geotechnics	2	77
2008/2009	1	SAB1713	Soil Mechanics	3	45
		SAB1042	Civil Engineering Laboratory 1 - Geotechnics	2	Section 01(42 students), Section 02 (45 students) & Section 3 (43 students)
2008/2009	2	SAB1713	Soil Mechanics	3	45
		SAB1042	Engineering Laboratory - Geotechnics	2	45
2013/2014	2	SKAA2012	Civil Engineering Laboratory - Geotechnics	2	30
2014/2015	1	SKAA2012	Engineering Laboratory - Geotechnics	2	32
		SKAA4002	Pre-Project	2	2
2014/2015	2	SKAA2012	Civil Engineering Laboratory - Geotechnics	2	Sec 01(42 students), Sec 02 (45 students) & Sec 03 (43 students)
		SKAA4004	Final Year Project	4	2
2015/2016	1	SKAA2012	Civil Engineering Laboratory - Geotechnics	2	Sec 01(42 students), Sec 02 (45 students) & Sec 03 (43 students)
2015/2016	2	SKAA2012	Civil Engineering Laboratory - Geotechnics	2	Sec 01(42 students), Sec 02 (45 students) &

					Sec 03 (43 students)
2016/2017	1	SKAA2012	Civil Engineering Laboratory - Geotechnics	2	34
		SKAA2722	Geotechnics 1	2	54
		SKAA4713	Advanced Geotechnical Analysis Design (Geotechnical instrumentation and Tunnel in Soil)	1.5/3	20 undergraduate students,
		SKAA4002	Pre-Project	2	2
2016/2017	2	SKAA2722	Geotechnics 1	2	53
		SKAA4713	Advanced Geotechnical Analysis Design	1.5/3	2
		SKAA4004	Final Year Project	2	2
2017/2018	1	SKAU 3712	Basic Properties of Soil Mechanics	1/2	30 students
		SKAA2722	Geotechnics 1	2	25 students
		SKAA4022	Pre Project	2	3
	2	SKAA2722	Geotechnics 1	2	28 perdana students, 55 SPACE
		SKAA3012	Civil Engineering Laboratory Testing 2	2	55 students
		SKAA4024	Final Year Project	4	3 students
		SKAA4022	Pre-project	2	1
2018/2019	1	SKAA2012	Civil Engineering Laboratory Testing 1	2	1
		SKAB2012	Civil Engineering Laboratory Testing 1	2	55
		SKAA3012	Civil Engineering Laboratory Testing 2	2	42
		SKAB2722	Geotechnics 1	2	52 students
		SKAA4024	Final Year Project	4	1
		SKAA4022	Pre-project	2	2
	2	SKAA2012	Civil Engineering Laboratory Testing 1	2	52
		SKAA4713	Advanced Geotechnical Analysis Design	1.5/3	21
		SKAB1713	Soil Mechanics	2/3	54 & 2 SPACE
		SKAB2722	Geotechnics 1	2*	34 SPACE
		SKAA4024	Final Year Project	4	2
		SKAA4022	Pre-project	2	1
2019/2020	1	SKAB1713	Soil Mechanics	3	55
		SKAB2722	Geotechnics 1	3	55
	2	SKAB1713	Soil Mechanics	3	45
		SKAB2012	CE Laboratory I	2	45
		SKAB3012	CE Laboratory II	2	45
2020/2021	1	SKAB2012	CE Laboratory I	3	45
		SEAA/SKAB1713	Soil Mechanics	3	32

		SKAB2722	Geotechnics 1	2	67
2020/2021	2	SEAA/SKAB1713	Soil Mechanics	3	45
		SKAB2012	CE Laboratory I	2	45
		SKAA4022	Pre-project	2	4
		SKAA4024	Final Year Project	4	4
		SKAA5723/ MKAJ1023	Advanced Geotechnical Analysis Design	1.5/3	8
2020/2021	3	SKAB3045	Industrial Training	5	10
2021/2022	1	SEAA1713	Soil Mechanics	3	45
		SEAA2012	CE Laboratory I	2	45
		SEAA2722	Geotechnics 1	2	30
		SKAA4022	Pre-project	2	2
2021/2022	2	SEAA1713	Soil Mechanics	1.5	34
		SEAA2012	CE Laboratory I	2	45
		SEAA2722	Geotechnics 1	2	30
		SKAA4024	Final year project	2	2
2021/2022	3	SKAB3045	Industrial Training	5	10
2023/2024	1	SEAA1713	Soil Mechanics	3	57
		SEAA2012	CE Laboratory I	2	45
		SEAA2722	Geotechnics 1	2	30
		SKAA4022	Pre-project	2	2
		SKAA5723/ MKAJ1023	Advanced Geotechnical Analysis Design	1	4
2023/2024	2	SEAA1713	Soil Mechanics	3	50
		SEAA2722	Geotechnics 1	2	30
		SEAA 4032	Intergrated Design Project 2 (IDP 2)	2	50
		SKAA4024	Final year project	4	2
2024/2025	1	SEAA1713	Soil Mechanics	3	115
		SEAA2722	Geotechnics 1	2	45
		SEAA2012	CE Laboratory I	2	45
		SKAA4022	Pre-project	2	2
	2	SEAA1713	Soil Mechanics	3	115
		SEAA2722	Geotechnics 1	1	45
		SEAA2012	CE Laboratory I	2	45
		SKAA4024	Final Year Project	4	2
2025/2026	1	SKAC1713	Soil Mechanics	1.5	68+18
		SKAC2722	Geotechnics 1	1	54
		SEAA2012	CE Laboratory I	2	45+20
		SEAA3713	Geotechnics 2	0.5	45
		SKAA4022	Pre-project	2	2
Total creadit hours				**144**	

POSTGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No of Student
2013/2014	2	MAJ1083	Enviromental Geotechnics	1.5	4
2014/2015	1	MKAJ1083	Enviromental Geotechnics	1.5	8 (29 Pesisir)
2016/2017	1	MKAJ1083	Enviromental Geotechnics	1.5	10

		MKAJ1023	Advanced Geotechnical Analysis Design (Geotechnical instrumentation and Tunnel in Soil)	1.5	1
2016/2017	2	MKAJ1113	Tunnel Engineering	3	7
		MKAJ	Master Project 1	3	1
		MKAJ1023	Advanced Geotechnical Analysis Design (Geotechnical instrumentation and Tunnel in Soil)	1.5	7
2017/2018	1	MKAJ1023	Advanced Geotechnical Analysis Design	1.5	9
		MKAJ	Master Project 2	6	1
2017/2018	1	MKAJ1083	Environmental Geotechnics	1.5	7 Pesisir students
		MKAJ	Master Project 1	4	1
2018/2019	1	MKAJ1023	Advanced Geotechnical Analysis Design	1.5	21 Pesisir students
		MKAJ	Master Project 2	6	1
2018/2019	2	MKAJ1023	Advanced Geotechnical Analysis Design	1.5	21
2019/2020	1	MKAJ1113	Tunnel Engineering	1	8 (12 Pesisir)
2019/2020	2	MKAJ 1023	Adv Geotechnics Design and Analysis	1	8 (8 Pesisir)
2020/2021	1	MKAJ1083	Enviromental Geotechnics	3	8, 7 ODL, (8 Pesisir)
2020/2021	2	MKAJ1023	Advanced Geotechnical Analysis Design	1.5	8
2023/2024	1	MKAJ1023	Advanced Geotechnical Analysis Design	1	12 (20 Pesisir)
		MKAJ1083	Enviromental Geotechnics	1.5	8
		MKAJ	Master Project 1	4	
2024/2025	1	MKAJ1023	Advanced Geotechnical Analysis Design	1	12 (20 Pesisir)
	2	MKAJ1083	Enviromental Geotechnics	1.5	8
		MKAJ	Master Project 2	8	
2025/2026	1	MKAJ1023	Advanced Geotechnical Analysis Design	1	14 (18 Pesisir)
		MKAJ	Master Project 1	4	
Total credits				**53**	

SUPERVISION

Summary	
Main Supervisor – PhD (Graduated)	2
Co-Supervisor – PhD (Graduated)	4
Main Supervisor – PhD (Ongoing)	1
Co-Supervisor – PhD (Ongoing)	2
Main Supervisor- Master by Research (Graduated)	2
Main Supervisor- Master by Research (On-Going)	0
Main Supervisor- Master by Taught Course (Graduated)	18
Main Supervisor- Master by Taught Course (On-Going)	2
Main Supervisor- Master by Mixed-Mode (Graduated)	-
Main Supervisor- Master by Mixed-Mode (On-Going)	-

PhD Student

NO.	NAME	MATRIC NO.	STATUS (GRADUATED/ ON-GOING)	TITLE	ROLE OF SUPERVISION
1	Mohammed Ridzuan Bin Jahidin	PKA143002	Graduated	IMPROVING THE STRENGTH OF MARINE CLAY USING MAGNESIUM CHLORIDE	Main supervisor
2	Mohammad Jawed Roshan	PKA193026	Graduated	CHARACTERIZATION OF CEMENT TREATED LATERITIC SOIL IN SATURATED AND UNSATURATED CONDITIONS	Co- supervisor
3	Nadiah Binti Jamaludin	PKA173022	Graduated	CHARACTERIZATION OF CEMENT TREATED LATERITIC SOIL IN SATURATED	Co- supervisor
4	Edgar Jr. Joe	PKA183039	Graduated	PROBABILISTIC-BASED PREDICTION OF RAINFALL-INDUCED LANDSLIDES	Co- supervisor
5	Chen Yin Tao	PKA223006	Graduated	Stability Analysis of Shallow Extra-large section Twin Tunnel Construction under Rock Condition	Main supervisor
6	Muhammad Hatta Bin Mohd Satar	PMJ203033	On-going	CHARACTERIZATION OF CEMENT TREATED LATERITIC SOIL IN SATURATED	Co- supervisor

7	Karthigeyan A/L Al. Ramanathan	PKA193009	Graduated	Behavior of Surface Settlement Induced by Tunneling Under Dense Non-greenfield Conditions	Co- supervisor
8	Amber Islam	PKA213029	On-going	Behaviour of surface settlememt induced by tunneling under brown field conditions	Co-supervisor

MSc. Student

NO.	NAME	NO. MATRIC	STATUS (GRADUATED/ ON-GOING)	TITLE	MODE (RESEARCH / TAUGHT-COURSE/ MIXED MODE)	ROLES OF SUPERVISION
1	Heirlina Mawarni Binti Jamri	MKA171008	Graduated	Estimation of Debris Flow Sedimentaiton Volume Through Numerical Modelling	Taught Course	Main supervisor
2	Rafi Ullah	MKA161200	Graduated	Embankment stability in soft ground	Taught Course	Main supervisor
3	Noor Iman Safiya Binti Mohd Muhtar	MKA161171	Graduated	Tunnel induced Ground movement in Soft ground conditions	Taught Course	Main supervisor
4	Yoon Chan Yip	MKA151173	Graduated	Tunnel-Soil-Pile behavior	Taught Course	Main supervisor
5	Siti A' Idah Binti Mohammad Asma'On	MKA161023	Graduated	Tunnel-Soil-Pile behavior	Taught Course	Co - supervisor
6	Shanmugapriya A/P Dewedree	MKA151148	Graduated	Soil Nailing in Numerical modelling	Taught Course	Main supervisor
7	Lee Ann Chze	MKA151172	Graduated	3D modelling on tunnel-soil behavior via Plaxis	Taught Course	Main supervisor
8	Ilanchelvan A/L Polanippan	MKA181096	Graduated	Tunnel-Soil-Pile behavior in Physical Modelling	Taught Course	Main supervisor
9	Lee Yoon Leong	MKA181039	Graduated	Tunnel-Soil-Pile behavior	Taught Course	Main supervisor

10	Nor Suhana Binti Abdul Jamil	MKA181018	Graduated	Tunnel-Soil-Pile behavior	Taught Course	Main supervisor
11	Nursyakirah Binti Ismail	MKA181026	Graduated	Tunnel-Soil-Pile behavior in Numerical Modelling	Taught Course	Main supervisor
12	Muhammad Ameer Zahid Bin Mohd Zafrullah	MKA191024	Graduated	Effect on adjacent pile towards tunnel-ground behavior	Taught Course	Main supervisor
13	Chong Qi Wen	MKA181008	Graduated	Tunnel-Soil-Pile behavior	Taught Course	Main supervisor
14	See Chai Yi	MKA181009	Graduated	Tunnel-Soil-Pile behavior	Taught Course	Main supervisor
15	Osama Mohamed Elsayed	MKA163018	Graduated	Jack forces induced ground movement in soft ground tunnelling	Research	Main supervisor
16	Lim Chin Boon	MKA201038	Graduated	Tunnel-Pile-Soil behavior in urban area	Taught Course	Main supervisor
17	Lim Chun Xiang	MKA201041	Graduated	Effect of Tunnel locaiton to pile-soil behaior	Taught Course	Main supervisor
18	Almhesin Hameed Mudhfar Hameed	MKA191132	Graduated	3D modelling of tunnel in soft ground in Iran formations	Taught Course	Main supervisor
19	Muhammad Aiman Bin Muaiddin	MKA201082	Graduated	EVALUATION OF DEBRIS FLOW FACTORS TOWARDS EFFICIENT DEBRIS FLOW SUSCEPTIBILITY MODELLING IN BATU HAMPAR, KEDAH	Taught Course	Main supervisor
20	Jia Jie Koh	MKA211094	Graduated	DEFLECTION OF EXISTING EMBEDDED PIPE BY USING IOWA FORMULA AND PLAXIS 2D MODELING	Taught Course	Main supervisor
21	Essameldin Ahmed Hassan Hanafi Salem	MKA211056	Graduated	The effect of the movement of trains inside the tunnels on the surrounding	Taught Course	Main supervisor

				buildings in soft soil		
22	Nur Syahirah Syuhadah Binti Zakaria	MKA213010	On-going	LANDFILL LINER SYSTEM OF LATERITE SOIL TREATED WITH LIME IN UNSATURATED DESIGN	Research	Main supervisor
22	KHAIRUNNISA HIDAYAH BINTI KAMARUL BAHARIN	MEA221041	Graduated	GROUND-TUNNEL BEHAVIOUR OF TWIN TUNNELS IN KENNY HILLS FORMATION	Taught Course	Main supervisor
23	Ranjini A/P Somasundram	MKA221018	On-going	Effects of tunnelling in soft ground formations	Taught Course	Main supervisor
24	Ghayathiry A/P Ravindran	MKA221011	Graduated	Back analysis of tunnelling in rock formations	Taught Course	Main supervisor

PLENARY/CHAIRPERSON/ORAL POSTER PRESENTER/KEYNOTE ADDRESS / INVITED GUEST SPEAKER

NO	ROLE	TITLE OF PROGRAMME	ORGANIZER	DATE	LOCATION
1	Oral Poster Presentation	International Putra Innocreative Poster Competition for "New Experiential Learning Through Online Laboratory"	UPM	2020	Online
2	Oral Poster Presentation	International Putra Innocreative Poster Competition for "Rock Classification Exercise Through Experiential Learning"	UPM	2020	Online
3	Oral Poster Presentation	International Putra Innocreative Poster Competition for "Adult Learners' Acceptance Towards 21st Century Innovation In Teaching And Learning Approach In Water Treatment Course"	UPM	2020	Online
4	Oral Poster Presentation	Internatinal Putra Innocreative Poster Competition for "Producing Soil Classification Experts	UPM	2020	Online

		Through Hands-On Learning"			
5	Oral Poster Presentation	5th Teaching And Learning Festival (Tlif 2019) for "Impact Of Non-Traditional Teaching And Learning Approach In Water Treatment Course Among Adult Learners"	UTP	2019	UTP
6	Oral Poster Presentation	New Academia Learning Innovation Exhibition And Competition(NALI 2019) for "Non-Conventional L&T (Nctl) Strategies In Soil Mechanics Course: Students Perception Towards Knowledge, Motivation And Skills Development"	UTM	2019	UTM
7	Oral Poster Presentation	Best Oral Presenter (Geotechnics and Transportations) In Undergraduate Research Conference 2019 for "Tunnelling Effect on the Existing Pile at Different Positions in Sand"	UTM	2019	UTM

LIST OF PUBLICATION

1. Indexed Publication

WOS Journal

Chen Yintao, Shao Xin, Chang Xiangyu, **Siti Norafida Bt. Jusoh**, Lu Zhongxiang, Bao Hong Quan, Han Xinkai, Xu Jun (2025). Prediction Of Surrounding Rock Deformation In A Highway Tunnel Using An Lstm-Rf Hybrid Model, Volume 2025, Article ID 6652758, 23 https://doi.org/10.1155/je/6652758

Karthigeyan A. L. RamanathanCorresponding Author; Rini Asnida Abdullah; Afikah Rahim; **Siti Norafida Jusoh**; Muhammad Irfan Shahrin; Mohammad Amjad Faruq Mohammad Haniff (2025). A Comparison Ofprediction Andactual Ground settlement induced by urban tunneling, *AIP Conf. Proc.* 3056, 030002 (2025)

Azimah Ayub, Nor Zurairahetty Mohd Yunus, Dayang Zulaika Abang Hasbollah, Haryati Yaacob, **Siti Norafida Jusoh,** Kamarudin Ahmad (2023). Compressibility Behaviour On Carbonation Of Ground Granulated Blast Furnace Slag (Ggbs) Treated Kaolin. Physics and Chemistry of the Earth, Parts A/B/C, Volume 130, 103362

Chun Xiang Lim, **Siti Norafida Jusoh,** Chin Boon Lim, Rini Asnida Abdullah, Nor Zurairahetty Mohd Yunus (2023). Tunnel depth effect to pile in Tunnel's influence zone. Physics and Chemistry of the Earth, Parts A/B/C, Volume 129, February 2023, 103298. Doi: https://doi.org/10.1016/j.pce.2022.103298

Chin Boon Lim, **Siti Norafida Jusoh**, Chun Xiang Lim, Dayang Zulaika Abang Hasbollah, Houman Sohaei (2023) Tunnel – Pile interaction sequence: Parametric studies. Physics and Chemistry of the Earth, Parts A/B/C, Volume 129, February 2023, 103312

SCOPUS Journal

Mohamad Naim bin Mohd Shakir, **Siti Norafida binti Jusoh (2023).** Numerical Modelling of Tunnel-GroundInteraction with Building Existence. Journal Of Sustainable Underground Exploration, VOL.3, NO.1(2023)16-21. Doi: https://doi.org/10.30880/jsue.2023.03.01.003

K Ramanathan, R A Abdullah, A Rahim, S N Jusoh, C M Khoo, X Fua, Y Xin Ban and Q Xie (20223) A Preliminary Study: Influence Of Sub-Surface Ground Condition Onthe Tunnel Boring Machine Performance. *IOP Conf. Ser.: Earth Environ. Sci.* **971** 012020

Rini Asnida Abdullah, Dedy Yusufianshah, Mohd Asmawisham Alel, **Siti Norafida Jusoh**, Mohd Azril Hezmi, Nor Zurairahetty Mohd Yunus and Ahmad Nazri Ali (2018). Slope Stability Analysis Of Quarry Face At Karang Sambung District, Central Java, Indonesia, International Journal of Civil Engineering and Technology (IJCIET.) Volume 9, Issue 1, January 2018, pp. 857–864

Siti Norafida Jusoh, Aminaton Marto, Hisham Mohamad, Norzurairahetty Md.Yunus, Fauziah Kassim and Mohd.Azril Hezmi (2017). Investigation on Interaction Study in The Precast Segment Tunnel Lining Via Numerical Modelling. Jurnal Teknologi (under review)

Eda Suhaili Sharudin, Nor Zurairahetty Mohd Yunus, Aminaton Marto, **Siti Norafida Jusoh**, Kamarudin Ahmad, Fauziah Kasim, Rini Asnida Abdullah, Muhammad Azril Hezmi (2016). Rock Bearing Resistance Of Bored Piles Socketed Into Rock. Jurnal Teknologi, 78 (8-6) pp 45-51

Siti Norafida Jusoh, Hisham Mohamad, Aminaton Marto, Nor Eliza Alias, Muhammad Azril Hezmi, Rini Asnida Abdullah, Nor Zurairahetty Mohd. Yunus (2016). Investigation On The Mechanics Of Precast Segment Tunnel Lining. Jurnal Teknologi. 78 (8-6) pp 61-66

Sarder M. Yahya, Rini A. Abdullah, Mohd Ashraf Mohamad Ismail, Hisham Mohamad, Muhammad Azril Hezmi, **Siti Norafida Jusoh** (2016). 3D Numerical Modelling Of Shallow Tunnel In Weathered Granite Incorporating Multi-Stage Excavation And Pre-Support. Jurnal Teknologi. 78 (8-6) pp 39-44

TC Yoon, ZM Yunus, A Marto, MA Hezmi, **SN Jusoh** and K Ahmad (2015) Comparison Of Soil Index Properties Value For Different Pre-Drying Conditions On Clayey Soil, Jurnal Teknologi 72 (6) pp 23-30

SN Jusoh, H Mohamad, A Marto, NZM Yunus, F Kasim (2015). Segment's Joint In Precast Tunnel Lining Design, Jurnal Teknologi 77 (11), pp 91-98

Aminaton Marto, Choy Soon Tan, Nur Naemah Esa, Faizal Pakir, **Siti Norafida Jusoh** (2014). Liquefaction Potential of Nusajaya City. Electronic Journal of Geotechnical Engineering. Vol 19 pp 17321-17239

E Namazi, H Mohamad, AKB Hong, M Hajihassani, **SN Jusoh**, SV Alavi (2012). Ground Behaviour Around a Tunnel Using Various Soil Models. Electronic Journal of Geotechnical Engineering 17, 609-622

Scopus Proceedings

Essameldin Salem, Siti Norafida Jusoh, Khairun Nissa Mat Said, Afikah Rahim, Muhammad Farhan Zolkepli & Muhammad Irfan Shahrin (2025). Tunnel-Ground-Building Behavior Due to Train Movements, LNCE,volume 637

Osama Mohamed El-Sayed, Siti Norafida Jusoh, Rini Asnida Adbullah and Dayang Zulaikha Abang Hasbollah (2019), 3-D Numerical Model of Jack Force Interaction to Segmental Tunnel Lining In Soft Soil. IOP Conf. Ser.: Mater. Sci. Eng. 527 012035.**DOI** 10.1088/1757-899X/527/1/012035 - Scopus Proceedings (International)

Noor Iman Safiya Mohd Muhtar, **Siti Norafida Jusoh**, Dedy Yusufiansyah, Asmawisham Alel, Nor Zurairahetty Mohd Yunus, Rini Asnida Abdullah, and Nordiana Mashros (2019), Assessment on tunnel lining to ensure stability in soft ground. *IOP Conf. Ser.: Mater. Sci. Eng.* 527 012009. doi:10.1088/1757-899X/527/1/012009 - Scopus Proceedings (International)

Abang Hasbollah, Dayang Zulaika, Tonnizam Mohamad, Edy, Azril Hezmi, Muhammad, Asnida Abdullah, Rini, Mohd Yunus, Nor Zurairahetty, Mustaffar, Mushairry, **Norafida Jusoh, Siti**, Azmi, Mastura, Harris Ra (2019). Comparison study on the strength index of tropical shale and sandstone influenced by moisture content. *IOP Conf. Ser.: Mater. Sci. Eng*. 527. Doi: 10.1088/1757-899x/527/1/012041 - Scopus Proceedings (International)

N Jamaludin, N Z Mohd Yunus, **S N Jusoh,** F Pakir, A Ayub, N E Zainuddin, M A Hezmi and Nordiana Mashros (2019). Potential and future: utilization of waste material on strength characteristics of marine clay. *IOP Conf. Ser.: Mater. Sci. Eng*. 527 012003. - Scopus Proceedings (International)

Heirlina Mawarni Jamri, **Siti Norafida Jusoh,** Aminaton Marto, Kamarul Azlan Mohd Nasir, Muhammad Azril bin Hezmi and Khairun Nissa Mat Said (2020). Estimation of Debris Flow Sedimentation Volume Through Numerical Modelling. *IOP Conf. Ser.: Mater. Sci. Eng.* 884 012044 - Scopus Proceedings (International)

2. Non-indexed publications

Katigayen, Rini Asnida Abdullah**, Siti Norafida Jusoh**,Afikah Rahim (2024) Numerical Analysis Of Ground Settlement In Urban Tunnelling, Proceedings of Southeast Asian Conference and Exhibition on Tunnelling and Underground Space (SEACETUS 2024), 5-7 March 2024, Kuala Lumpur Convention Center – **Regional**

S. Essameldin, **S.N. Jusoh,** K. N. Mat Said, R.A. Abdullah, A. Rahim, M. F. Zolkepli & M. I. Shahrin,(2024) The Effect of Train Movement in Underground Tunnel on Building Stability, Proceedings of Southeast Asian Conference and Exhibition on Tunnelling and Underground Space (SEACETUS 2024), 5-7 March 2024, Kuala Lumpur Convention Center – **Regional**

Noor Iman Safiyya Mohd.Muhtar, **Siti Norafida Jusoh**, Asmawisham Alel, Rini Asnida Abdullah, Norzurairahetty Mohd. Yunus, Nordiana Mashros (2019). Assessment on Tunnel Lining to Ensure Stability in Soft Ground. *11th International Conference on Geotechnical Engineering in Tropical Regions (11th GEOTROPIKA) and 1st International Conference on Highway and Transportation Engineering (1st ICHITRA).* The Royal Widad Residence @ UTMKL. 27-28 February 2019. – **International**

Osama ElHayed, **Siti Norafida Jusoh**, Rini Asnida Abdullah, and Dayang Zulaikha Abang Hasbollah. (2019). 3-D Numerical model of jack Force interaction to segmental tunnel lining in soft soil. *11th International Conference on Geotechnical Engineering in Tropical Regions (11th GEOTROPIKA) and 1st International Conference on Highway and Transportation Engineering (1st ICHITRA).* The Royal Widad Residence @ UTMKL. 27-28 February 2019. **– International**

Shanmugapriya Dewedree & **Siti Norafida Jusoh.** (2018). Slope Stability Analysis under Different Soil Nailing Parameters using The SLOPE/W Software. *The 2nd International Conference of Women in Science, Engineering and Technology (WiSET 2018).* Kuala Lumpur. 17-19 Julai 2018. – **International**

Siti Norafida Jusoh, Dedy Yusufiansyah, Hisham Mohamad, Rini Asnida Abdullah, and Norzurairahetty Mohd. Yunus. (2018). Geotechnical Aspects of Tunnel lining with Segmental Joint Parameters to Improve Soil Surface Settlement Prediction. *The 12th International Civil Engineering Post Graduate Conference (SEPKA) - The 3rd International Symposium on Expertise of Engineering Design (3rd ISEED).* 27-28 August 2018. Le Grandeur Palm Resort, Senai, Johor. –**International**

Siti Norafida Jusoh, Hisham Mohamad, Aminaton Marto and Fauziah Kassim (2018). Assessment on Segment Joint to Improve Soil-Tunnel Interaction. The 12th International Civil Engineering Post Graduate Conference (SEPKA) - *The 3rd International Symposium on Expertise of Engineering Design (3rd ISEED). 27-28 August 2018.* Le Grandeur Palm Resort, Senai, Johor. – **International**

Marto, G. Sakai, N. Suemasa, N.Z. Mohd Yunus, **S.N. Jusoh**, N. Jamaludin, M.M. Ponimin and M.F. Mohd Tahir. (2018). Screw Driving Sounding Test for Soil Identification and Classification. *Proceeding 20th SEAGC – 3rd AGSSEA Conference in conjunction with 22nd Annual Indonesian National Conference on Geotechnical Engineering*, Jakarta, November 2018 – Regional

Mohamad Firdaus, **Siti Norafida Jusoh** (2017)The Bearing Capacity of Marine Clay Treated with Optimum Percentage of Magnesium Chloride, MgCl2 Proceedings of Civil Engineering, Volume 2 – Construction Management, Geotechnics and Transportation. Pg 141-147 – **National**

Zafri Nasrullah Bin Mohamed Ali**, Siti Norafida Jusoh** (2017). Unconfined Compressive Strength and Shear Strength of Marine Clay Treated by Magnesium Chloride. Proceedings of Civil Engineering, Volume 2 – Construction Management, Geotechnics and Transportation. Pg 172-178 – **National**

Siti Norafida Jusoh, Abdullah Rini Asnida Marto Aminaton and Fauziah Kassim (2017). Tunnel and microtunnel for future smart and sustainable infrastructure solution, *Regional Conference in Civil Engineering(RCCE) and the 3rd International Conference on Civil Engineering Research (ICCER)* at JW Marriott Hotel Surabaya, Indonesia on 1-2 August 2017. – **Regional**

S.N. Jusoh, A. Marto, H. Mohamad, R.A. Abdullah, N.M. Yunus, M.A.A.Kadir and C.S Tan, Investigation on Segment Joint to Improve Soil-Tunnel Interaction, *Southeast Asian Conference and Exhibition in Tunnelling and Underground Space 2017(SEACETUS2017)*, ISBN 978-983-40616-6-1 – **Regional**

Siti Norafida Jusoh, Hisham Mohamad, Aminaton Marto & Nor Zurairahetty Mohd Yunus, (2015). Point Load Testing of Flexural Behavior of Segmented Tunnel Lining, Malaysian Journal Of Civil Engineering, MJCE Volume 27 Special Issue No. 1 , 71-82 -

S. N. Jusoh, H. Mohamad, A. Marto, N. Z. Mohd Yunus, F. Kasim, E. Namazi, and H. Sohaei (2015). Precast Concrete Tunnel Segments: A Review on Current Research. Journal of Advanced Review on Scientific Research, Vol. 6, No.1. Pages 16-27. ISSN (online): 2289-7887

3. Others

Book Editor

Siti Norafida Jusoh, Bakhtiar Affandy Othman (2025). INTERNATIONAL CONFERENCE ON GEOTECHNICAL ENGINEERING IN TROPICAL REGIONS, GEOTROPIKA 2024, LNCE,volume 639 – **Lead Editor (International)**

Article

Jusoh, S.N., (2018) Segmental Tunnel Lining Design: Understanding Ground-Tunnel Interactions in Staggered Tunnel Lining. Feature Article. The Monthly Bulletin of The Institution of Engineers, Malaysia Jurutera, Malaysia (July 2018 issues) – **National**

Technical Report/Guidelines

Research Project On Sabo Dam Development At Gunung Jerai, Kedah Malaysia – Design Guidelines (2024) **- National**

LIST OF RESEARCH GRANTS

NO	ROLE (HEAD RESEARCHER/ RESEARCHER)	TITLE OF GRANT	SPONSOR	RECEIVED DATE	END DATE
1	Researcher	Mitigation Evaluation of Microplastic Contamination by Sustainable Landfill Liner	UTM FR	2022	2024
2	Researcher	Investigation of Compressibility Properties of Soft Soil Treated by Cementitious Material in Slurry and Dry Mixing Method	UTM FR	2022	2024
3	Researcher	Impact of climate change on the mechanical behaviour of cement-treated lateritic soil	UTM FR	2022	2024
4	Researcher	HUBUNGAN ANTARA KEPERLUAN PENGIKTIRAFAN JURUTERA PROFESIONAL DENGAN PEMBELAJARAN DAN PENGAJARAN EFEKTIF DALAM KALANGAN PENSYARAH KEJURUTERAAN UNIVERSITI TEKNOLOGI MALAYSIA (UTM)	DPP UTM	2021	2023
5	Researcher	Behavior of Surface Settlement Induced by Tunneling Under Dense Urban Conditions	International – Chongqing University	2021	2024
6	Researcher	BEHAVIOR OF SURFACE SETTLEMENT INDUCED BY TUNNELING UNDER NON-GREENFIELD CONDITION	FRGS	2020	2023

7	Researcher	Diagnosis of alkali-aggregate reaction – polarizing microscopy and SEMEDS analysis	UTM ER	2020	2023
8	Researcher	STOCHASTIC SLOPE MODELLING UNDER ANTECEDENT RAINFALL EFFECT	UTM FR	2020	2023
9	Head Researcher	JACK FORCES MECHANISMS IN SOFT GROUND TUNNEL LINING	UTM ER	2019	2022
10	Head Researcher	CRG 24.3 : COMPRESSABILITY CHARACTERISTIC OF LATERITIC SOIL TREATED WITH LIME UNDER CYCLIC WETTING ANDDRYING CONDITION	CRG	2019	2022
11	Researcher	CRG 24.4 : Microstructural Characteristic of Lateritic Soil Treated with Lime under Cyclic Wetting and Drying Condition	CRG	2019	2022
12	Researcher	CRG 24.1 : Shear strength Behavior of Lateritic Soil Treated with Lime under Cyclic Wetting and Drying Conditions	CRG	2019	2022
13	Researcher	CRG 24.0 : Characteristics of Lateritic Soil Treated with Lime under Cyclic Wetting and Drying Conditions	CRG	2019	2022
14	Researcher	CRG 20.2 GEOMATERIAL STUDY	CRG	2019	2022

		ON TUNNEL LINING ANALYSIS			
15	Researcher	CRG 20.0: REAL TIME TUNNEL LINING STRUCTURAL HEALTH MONITORING (SHM) SYSTEM	CRG	2019	2022