

CURRICULUM VITAE

PERSONAL DATA

Name : **SITI NORAFIDA BINTI JUSOH**

I.C. NO. : 830825-11-5156

Citizenship : Malaysian

Date of Birth : 25 August 1983

Place of Birth : Manir, Kuala Terengganu, Terengganu

Married Status : Single

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sitinorafidajusoh@gmail.com

Telephone : 013-7546450

FIELD OF SPECIALISATION:

Geotechnics, Tunnel in soft soil, Numerical modeling using Finite Element, ABAQUS

WORKING EXPERIENCE

Position : **Tutor** (DA41) (11 September 2006-13 December 2007)
Lecturer (DS45) (14 December 2007- now)
Department of Geotechnics and Transportation,
Faculty of Civil Engineering,
University of Technology,
81310, UTM Skudai, Johor Bahru,
Johor, MALAYSIA.

Fellow Assistant (15 July 2006-13 January 2009)
Fellow (14 January 2009 – August 2010)
College's Student Resident,
Kolej Tun Hussein Onn, University of Technology, Malaysia.

ACADEMIC QUALIFICATIONS

2016 Doctor of Philosophy (Civil- Geotechnics) - Universiti Teknologi Malaysia; *Performance of Precast Bolted Tunnel Lining Through Physical and Numerical Modelling*

2008 Master of Engineering (Civil – Geotechnics) – Universiti Teknologi Malaysia, CGPA: 3.64, Thesis Title: *Seepage Flow In Homogeneous and Zoned Earthfill Dams* (March 2008)

2006 Bachelor of Civil Engineering – Universiti Teknologi Malaysia. CGPA: 3.73, Thesis Title: *Finite Element Analysis of Dry Board System in 3 Dimensions (LUSAS)* (May 2006)

2001 Sijil Pelajaran Malaysia (SPM) (Science Technical) - Sekolah Menengah Sains Muar, Tg.Agas, Muar, Johor,

TEACHING AND SUPERVISION

- a) Teaching in Soil Mechanics (SAB 1713) course:
Bachelor of Civil engineering students –
2007/2008 Semester 2 - 66 students,

2008/2009 Semester 1-45 students,
2008/2009/2 – 45 Students

- b) Teaching in Engineering Laboratory (SAB 1042) course:
Bachelor of Civil Engineering students -
2007/2008 Semester 2 – 77 students (15 is international students),
2008/2009 Semester 1- Sec 01 (42 students), Sec 02 (45 students) & Sec 03 (43 students),
2008/2009/2 – Sec 1(45 students))
- c) Teaching in Geotechnical Environments (MAJ 1083, MKAJ 1083) course:
Master in Civil Engineering (Geotechnics) student:-
2013/2014/2 - 4 students
2014/2015/1 - 8 Perdana students & 29 Pesisir students
2016/2017/1 – 1 Perdana students & 16 Pesisir students
- d) Teaching in Engineering Laboratory (SKAA2012) course:
Undergraduate Students:-
2013/2014/2 - 30 students
2014/2015/1 - 32 students
2014/2015/2 – Sec 01 (42 students), Sec 02 (45 students) & Sec 03 (43 students)
2015/2016/1 – Sec 01 (42 students), Sec 02 (45 students) & Sec 03 (43 students)
2015/2016/2 – Sec 01 (42 students), Sec 02 (45 students) & Sec 03 (43 students)
2016/2017/1 – 34 students
- e) Teaching in Geotechnics 1 (Stresses in soil, compressible, settlement and consolidation and slope stability) (SKAA2722)
2016/2017/1 – 54 students
- f) Teaching in Advanced Geotechnical Analysis Design (Geotechnical instrumentation and Tunnel in soil) (SKAA4713, MKAJ1023)
2016/2017/1 – 20 students, 1 Perdana students
- g) Supervising in Project Sarjana Muda (PSM) (SKAA 4002, SKAA4004)
2014/2015/1 - 2 students
2016/2017/1 - 2 students

RESEARCH

- a) '*Finite Element Analysis of Dry Board System in 3 Dimensions (LUSAS)*' - Faculty of Civil Engineering, UTM (May 2006)
- b) '*Seepage Flow In Homogeneous and Zoned Earthfill Dams*' - Faculty of Civil Engineering, University of Technology Malaysia, (March 2008)
- c) *Performance of Precast Bolted Tunnel Lining Through Physical and Numerical Modelling*
- d) Tunnel-pile interaction study in sandy soil

Grant:

- 1) Physical and Numerical Modelling of Ground Deformation Due to Tunneling - Member (01/04/2014 - 31/03/2016) RUG of UTM (RM35000) -Completed
- 2) Soil Structure Interaction Of Jointed Precast Tunnel Lining - Member ((01/04/2014 - 31/03/2016) RUG of UTM (RM50000) – Completed

PUBLICATIONS

1- Proceedings/Articles

- 1- Hazilan, M.N., Azri, H., **Jusoh, S.N.**, *Perkembangan Budaya Ilmu*. National Student Development Conference organized by Fellowship of College Tun Hussein Onn, Institution of UTM Fellows at Dewan Sultan Iskandar, UTM. (21- 23 Oktober 2008) - National
- 2- **Jusoh, S.N.**, *Parametric Study on Seepage Flow in Unsaturated and Saturated Zones in Earth fill Dam*. National Seminar on Civil Engineering Research (SEPKA 2007), Good Hope Hotel, Johor. (11-12 December 2007) – National
- 3- Kasim, F. and **Jusoh, S.N.**, *Effects of Permeability Disparity on Seepage Pattern of Earthfill Dam*. International Conference on Geotechnical and Highway Engineering(GEOTROPIKA 2008), Best Western Premier Seri Pacific Kuala Lumpur,Malaysia. (26-27 Mei 2008) – International
- 4- **Jusoh, S.N.**, and Mohamad, H. (2010). A Short Review of Analytical Methods for Tunnelling in Elastic Ground, GEOTROPIKA 2010 - International
- 5- **Jusoh, S.N.**, and Mohamad, H. (2011). A Short Review of Numerical Methods for Tunneling in Soft Ground, SEPKA 2011 - National
- 6- **Jusoh, S.N.**, Mohamad, H. and Marto, A. (2013). "Fundamental Behavior of Jointed Segmental Tunnel Lining: A Review of Current State of Research, GEOCON 2013 – International
- 7- **Siti Norafida Jusoh**, Hisham Mohamad, Aminaton Marto & Nor Zurairahetty Mohd Yunus. (2014). Flexural Behavior of Segmented Tunnel Lining, presented in National Seminar on Civil Engineering Research (SEPKA 2014), 14-15th April 2014, at Universiti Teknologi Malaysia. – National
- 8- Muhammad Azril Hezmi^{1,a}, Radzuan Saari^{1,b}, Mushairry Mustaffar^{1,c} , Che Ros Ismail^{1,d}, Mohd For Mohd Amin^{1,e}, Muhammad Nassir Hanapi^{1,f} , Khairulzan Yahya^{1,g}, Yusof Ahmad^{1,h}, Azman Mohamed^{1,i}, Nor Zurairahetty Mohd Yunus^{1,j} , Asnul Dahar Minghat^{2,k} , Siti Norafida Jusoh^{1,l} , Mohd Yunus Ishak^{1,m} Mohd Zulkifli Mohd Yunus¹ (2015). Implementation of Project Based Learning for Civil Engineering Students at Universiti Teknologi Malaysia. 9th Asia Pacific Structural Engineering and Construction Conference (APSEC 2015) 8th Asean Civil Engineering Conference (ACEC 2015)
- 9- Nor Zurairahetty Mohd. Yunus, Dariusz Wanatowski, Aminaton Marto and **Siti Norafida Jusoh** (2016). Comparison Between Undrained And Drained Condition On Lime-Stabilized Organic Clay With Sodium Chloride, 19th Southeast Asian Geotechnical Conference & 2nd AGSSEA Conference (19SEAGC & 2AGSSEA) at Kuala Lumpur, Malaysia

2- Non-index Jurnal

- 1- **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
- 2- **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- Scopus Jurnal

- 1- E Namazi, H Mohamad, AKB Hong, M Hajjihassani, **SN Jusoh**, SV Alavi (2012). Ground Behaviour Around a Tunnel Using Various Soil Models. *Electronic Journal of Geotechnical Engineering* 17, 609-622
- 2- 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
- 3- 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
- 4- **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

- 5- 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
 - 6- 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
 - 7- **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
 - 8- **Siti Norafida Jusoh**, Aminaton Marto, Hisham Mohamad, Norzurairahetty Md.Yunus, Fauziah Kassim and Mohd.Azril Hezmi (2016). Investigation on Interaction Study in The Precast Segment Tunnel Lining Via Numerical Modelling. *Jurnal Teknologi*(under review)
- 4- Index Jurnal
- 1- Aminaton Marto, Choy Soon Tan, Ahmad Mahir Makhtar and **Siti Norafida Jusoh** (2016). Cyclic Behaviour Of Johor Sand, *International Journal of GEOMATE, Geotec., Const. Mat. & Env.* Vol. 10, Issue 21, pp. 1891-1898, ISSN: 2186-2982(Print), 2186-2990(Online), Japan

DETAILS OF COURSES, TRAINING, SEMINAR, WORKSHOP AND CONFERENCES ATTENDED

a) Courses

- 1- Attending a in House Seminar: Seminar Perisian Kejuruteraan Awam II(2001), Organized by Persatuan Kejuruteraan Awam (PEKA) & Information Technology Unit of Civil Engineering(ITUCE), Faculty of Civil Engineering, UTM (participant)
- 2- In House Course: Leadership and Career Development in Academia, 29-30 October 2008, organized by Prof. Dr. Mohd Azraai bin Kassim & Pendaffar, Faculty of Civil Engineering, at Pusat Latihan UTM.
- 3- In House Course: ISO9001: 2000 Awareness Program, 18 June 2008, at PBL1, Faculty of Civil Engineering, UTM
- 4- Half Day English Course in Pronunciation, 1 July 2008, organized by CTL & HRD, UTM
- 5- Short Course on Macromedia Flash Player, June 2008, CTL, UTM
- 6- Short Course on Application of Geotechnical Engineering Software: PLAXIS (May 2007), Organized by Department of Geotechnics and Transportations, Faculty of Civil Engineering, UTM at IT Lab, UTM.
- 7- Kursus Pembelajaran Dewasa (*Adult Learning*) (2007), Organized by School of (SPACE), UTM at Rumah Alumni, UTM.
- 8- GPS for Engineers and Professionals (2005), UTM Degree++, Organized by School of Professional and Continuing Education(SPAC), UTM at Faculty of Geoinformation, UTM.
- 9- Attending a Workshop on Introduction to Matlab by Process Systems Engineering Centre (PROSPECT), FKKSA, UTM on March 2010
- 10- Attending Workshop on " Recent Issues & Development in Geotechnical Engineering", 6th Dec 2010 at D02, Faculty of Civil Engineering, UTM
- 11- Attending One Day Workshop of " How using ABAQUS: Keywords Edition" on 30 Nov 2013, at M46 FKA UTM
- 12- Attending One Day Workshop of " Tulis Thesis Pantas" by MPWS (Dr.Othman Talib), 7 December 2013 at Kolej Tunku Canselor, UTM
- 13- Attending CRA's Journal Publication Workshop by Construction Research Alliance, UTM 1- 2 December 2014, at Dewan Sultan Iskandar, DSI UTM
- 14- Attending "Bengkel CDIO Learning Innovation, by Faculty of Civil Engineering, 19 - 20 August 2014 at PBL 1, FKA, UTM

- 15- Attending "Kursus Kesedaran ISO 9001:2008" by Faculty of Civil Engineering, 23 anuary 2014 at PBL 1, FKA, UTM
- 16- Attending "Kursus Kompetensi Staf Makmal: Rock Testing", 7 September 2016 at Rock Laboratory, D03, Faculty of Civil Engineering, UTM
- 17- Attending " Effective Multimedia Creative Presentation Course" by Centre for Teaching and Learning (CTL) on 23rd November 2016 at Computer laboratory CTL, UTM Johor Bahru
- 18- Attending "Supervisory Courses AS101" by UTMLead on 27th March 2017 at UTMLead Hall, F54, UTM Johor

b) Conferences

- 1- Presented "Perkembangan Budaya Ilmu" at National Students Development Conference (NASDEC 2008) (20-23 Oktober 2008) at Dewan Sultan Iskandar, University of Technology Malaysia
- 2- Presented " *Parametric Study on Seepage Flow in Unsaturated and Saturated Zones in Earth fill Dam*" at National Seminar on Civil Engineering Research (SEPKA 2007) (11-12 December 2007), at GoodHope Hotel , Skudai, Johor (presenter)
- 3- Attending International Conference on Geotechnical and Highway Engineering(GEOTROPIKA 2008), Best Western Premier Seri Pacific Kuala Lumpur,Malaysia. (26-27 Mei 2008)
- 4- Presented "A Short Review of Analytical Methods for Tunnelling in Elastic Ground", at the 8th International Conference on Geotechnical and TRansportation Engineering (GEOTROPIKA 2010), 1-3 December 2010, at Sutera Harbour, Sabah
- 5- Presented "A Short Review of Numerical Methods for Tunneling in Soft Ground " at National Seminar on Civil Engineering Research 2011 (SEPKA 2011)held on Oxtober 2011 at Training Centre UTM
- 6- Presented "Fundamental Behavior of Jointed Segmental Tunnel Lining: A Review of Current State of Research", at Joint Conference of International Conference on Geo-technical and Transportation Engineering (GEOTROPIKA) and International conference on Construction and Building Engineering (ICONBUILD) (GEOCON 2013) at Persada Johor, 28-30 October 2013
- 7- Presented "Flexural Behavior of Segmented Tunnel Lining, in National Seminar on Civil Engineering Research (SEPKA 2014), 14-15th April 2014, at Universiti Teknologi Malaysia.
- 8- Presented "Precast Concrete Tunnel Segments: A Review on Current Research" in World Virtual Conference on Advanced Research in Mechanical and Materials Engineering from 28-30 Nov 2015
- 9- Presented "Investigation on Interaction Study in The Precast Segment Tunnel Lining Via Numerical Modelling" in 10th International Conference of Geotechnical and Transportation Engineering from 17-18 February 2016 in Kuala Lumpur
- 10- Presented "Numerical Modelling on The Mechanics of Precast Segment Tunnel Lining" in International Graduate Conference on Engineering, Science and Humanities (IGCESH) from 15 -17 August 2016 at N24, Universiti Teknologi Malaysia

ACADEMIC ACTIVITIES

1. Editor

- 1- Jurnal Teknologi Vol 78, No 8-6: Geoengineering
- 2- Jurnal Teknologi Vol 78, No 8-5: Geotechnical Engineering

2. Reviewer

- 1- Jurnal Teknologi Vol 78, No 8-6: Geoengineering
 - i. Effect Of Nose Blade Angle On Face Stability Of Jacked Box Tunnelling
 - ii. Webgis Based Database Information And Management System (Dims) For Malaysia, Singapore And India

- iii. In-Situ Stress Measurement By Overcoring And Hydraulic Fracturing Of Pahang-Selangor Raw Water Transfer Project
- 2- Jurnal Teknologi Vol 78, No 8-5: Geotechnical Engineering
 - i. Properties Of Coal Bottom Ash From Power Plants In Malaysia And Its Suitability As Geotechnical Engineering Material
 - ii. Foundation Modelling For Cooling Water Pump Machine In Pt Pupuk Sriwijaya (Pursi) li-B Projects
- 3. Facilitator
 - 1- Program Lawatan Pelajar Sekolah Menengah Pahang ke Fakulti Kejuruteraan Awam, UTM (14 November 2016)
 - 2- Easy go writing at L50, Univerisit Teknologi Malaysia (26 November 2016)
- 4. Short Course/Workshop
 - 1- Tunnel Engineering on 26 March 2017 with collaboration from Tunnel and Underground Space Technical Division(TUSTD), IEM (speakers: Ir.Syed Rajah, Chairman of TUSTD and Mr.Ilan) at PBL 2 ,M46, FKA