

## *CURRICULUM VITAE*

### PERSONAL INFORMATION

Name : Noraliani Alias  
Date of Birth : 8 January 1975  
Place of Birth : Kamunting, Perak  
Marital Status : Married  
Nationality : Malaysian  
:  
Corresponding Address : Faculty of Civil Engineering  
Universiti Teknologi Malaysia  
81310 Skudai  
Johor

E-mail : [noraliani@utm.my](mailto:noraliani@utm.my)/[noli\\_lia@yahoo.com](mailto:noli_lia@yahoo.com)  
Telephone (mobile) : 019-7787909  
Current Academic Position : Senior Lecturer  
Current Management Position: : Lead Auditor ISO 9001:2015 & Postgraduate  
Coordinator for MKAG



### ACADEMIC QUALIFICATION

1996 Diploma of Engineering (Civil)  
Universiti Teknologi Malaysia, Malaysia

1999 Bachelor of Engineering, B.Eng. Hons. (Civil)  
Universiti Teknologi Malaysia, Malaysia

2003 Master of Engineering, M.Eng (Hydrology and Water Resources)  
Universiti Teknologi Malaysia, Malaysia

2013 Ph.d (Urban Water Quality)  
Queensland University of Technology, Brisbane, Australia

### RESEARCH EXPERTISE

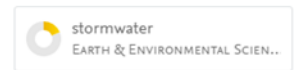
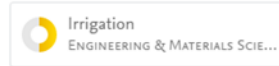
- Non Point Source Pollution
- Water Resources Management
- Flood Modelling
- Hydrogeology

### RESEARCH GROUP

- Ecohydrology
- Geoenvironmental

## RESEARCH DIGITAL PROFILER & PUBLICATION FINGERPRINT

1. Pure UTM: Noraliani Alias (Citation = 15, H-index = 2)
2. Google Scholar: Noraliani Alias (Citation = 44, H-index = 4, i10-index-2)
3. Researchgate (7.36)



## PROFESSIONAL MEMBERSHIP

Board of Engineer (BEM) - Graduate member

## TEACHING

### 1. Undergraduate Level

- a. Water Resources Management (SAB 4613/SKAA4613)**  
2013/2014 – Present
- b. Hydrology (SKAA3613)**  
2016/2017 Semester 2- Present
- c. Fundamental Civil Engineering (SKAA 2012)**  
2013/2013 – Semester 1
- d. Basic Water Resources (SKAU 2512)**  
2013/2014 – Semester 1
- e. Integrated Design Project 1**  
2013/2014 – Semester 1
- f. Civil Engineering Laboratory**  
2013/2014 – Semester 1
- g. Fluid Mechanics (SAB 1513/SAB 2513)**  
2015/2016 - Semester 1  
2007/2008 – Semester 1  
2006/2007 – Semester 3  
2005/2006 – Semester 1 & 2  
2004/2005 - Semester 2  
2002/2003 - Semester 1 & 2  
2001/2002 - Semester 1 & 2

**h. Hydrology (SAB 3613/SAB 4613)**

2007/2008 – Semester 2

2006/2007 – Semester 1 and 2

2005/2006 – Semester 2

**2. Postgraduate Level**

**a. Water Resources Management (MKAG1223)**

2013/2014 – Present

**PROJECT SUPERVISION (Undergraduate)**

1. Ciri Hidraulik Aliran Melalui Orifis Bulat Berganda - Mohd Akbar b. Mohd Razali (2005)
2. Pengaruh Ketumpatan Light Nonaqueous Phase Liquid (LNAPL) dan Keperosan Media Poros Terhadap Pergerakan LNAPL Sebagai Bahan Pencemar - Nozie bt. Mohamad Yusof (2005)
3. Pengaruh Keperosan Media Poros Terhadap Pergerakan LNAPL - Siti Fatim bt. Mohd Razali (2006)
4. Analisis Hidraulik bagi Rekabentuk Saluran Bertingkat di Kawasan Cerun - Mohd Maiziz bt. Fishol Hamdi (2006)
5. Ciri Hidraulik Aliran Melalui Orifis Bulat Berganda - Siti Safirah bt. Rashid (2006)
6. Pengaruh Kebolehtelapan Media Poros Terhadap Pergerakan LNAPL - Siti Khuzaimah bt. Abdul Wahab (2006)
7. Kajian Kadar Penyusupan Air Sebelum dan Selepas Kawasan Dibangunkan - Norazaham b. Mohd Nadzari (2007)
8. Keberkesanan Saluran Bertingkat Sebagai Struktur Pelepas Tenaga - Norhisham Izwan b. Johari (2005)
9. Kajian Keberkesanan Perangkap Sampah Di Daerah Johor Bahru - Mohamad Azhar b. Mohamed Saian (2007)
10. Kehilangan Tenaga Menggunakan Saluran Bertingkat - Mohd Fariz Adlan b. Jasri (2007)
11. Kajian Banjir Kilat Di Johor Bahru: Kajian Kes Kawasan Air Molek - Azwani bt. Aziz (2007)
12. Reducing Runoff Using On-Site Detention - Nor Faridah binti Mat Pilus (2014)
13. Perbandingan Alat Dalam Menentukan Kebocoran pada Paip - Ahmad Budiyanto bin Wardi (2014)
14. Kajian Keberkesanan Kolam Tahanan Banjir di Kawasan Perumahan - Siti Norhamizah binti Shahar (2014)
15. Analisis Kemarau Menggunakan Kaedah Indeks Aliran Kemarau - Azah Azura binti Hj Yusof@Daud (2015)
16. Analisis Kemarau Menggunakan Kaedah Indeks Curahan Piawai - Zanalizah binti Jauhari (2015)
17. Analisis Kemarau Menggunakan Kaedah Lengkung Tempoh Kadar Alir - Yazid Yakob (2015)
18. Analisis Kemarau Menggunakan Kaedah Indeks Kemarau Aliran Sungai - Muhammad Alieff Idzham bin Md Rohim (2015)

19. Kajian Sumber Air Menggunakan Kaedah Lengkung Tempoh Kadar Alir di Parit Sembilan, Mersing, Johor.- Muhammad Zulzairee bin Ariffin (2015)
20. Penggunaan Injap Pengurangan Tekanan Dalam Mengawal Tekanan dan Kadar Kehilangan Air Tak Berhasil di Semarak, Kuala Lumpur. - Abdul Muiz bin Alias (2017)
21. Perbandingan Rekabentuk Kolam Takungan berdasarkan Manual Saliran Mesra Alam Edisi Pertama dan Kedua - Nur Zahrah binti Zahril (2017)
22. Rekabentuk Kolam Tahanan di Kawasan Kilang - Masyitah binti Ahmad Shazaly (2017)
23. Kesan Perubahan Permukaan Tidak Telap terhadap Kadar Alir Puncak dan Isipadu Kadar Alir di Kawasan Tadahan Sungai Nenggiri, Kelantan - Akmal Aizat bin Ali (2017)
24. Kesan Perubahan Permukaan Tidak Telap terhadap Kadar Alir Puncak dan Isipadu Kadar Alir di Kawasan Tadahan Sungai Lebir, Kelantan - Muhammad Faisal Amin bin Mat Ali (2017)

#### PROJECT SUPERVISION (Postgraduate-Master by Research)

1. Influence of Rainfall Characteristics on First Flush  
Noor Atiqah binti Zuraini, **Main Supervisor**, (On going)

#### PROJECT SUPERVISION (Postgraduate-Master by Taught Course)

1. Runoff Water Quality in Residential Catchment  
Nur Hashima binti Abdul Latiff **Main Supervisor** (Completed - 2015)
2. Evaluation of Design Criteria for Inflow and Infiltration in Sewerage System (co-supervisor)  
Mohd Kamarul Huda Sameon, **Co- Supervisor** (Completed - 2006)

#### PROJECT SUPERVISION (Postgraduate-PhD)

1. The Influence of Hydrodynamic Characteristics On Dissolved Oxygen and Chlorophylla Distribution Of Western Johor Straits  
Maznah Ismail **Main- Supervisor** (On-going)
2. Migration of Non-Aqueous Phase Liquid on Non Isothermal Double Porosity Under Vibration Effect  
Mohd Fadli bin Abd. Rashid **Main- Supervisor** (On going)
3. Hydro-Economic Model to Assess the Impacts of Droughts on Agriculture under Climate Change Scenarios  
Mohammed Sanusi Shiru **Co- Supervisor** (On-going)
4. Optimization of Low Impact Development Practical for Mitigation of Urban Flood  
Mohamed Salem Mohamed Hassan Nashwan **Co- Supervisor** (On going)

## PUBLICATIONS (Journals)

1. **Alias, N.**, Liu, A., Egodawatta, P., Goonetilleke, A. (2014). Sectional Analysis of Pollutant Wash-off based on Runoff Hydrograph. *Journal of Environmental Management*, 134, 63-69 (IF 3.057)
2. **Alias, N.**, Liu, A., Egodawatta, P., Goonetilleke, A. (2014). Time as the critical factor in the investigation of the relationship between pollutant wash-off and rainfall characteristics. *Ecological Engineering*, 64, 301-305.(IF 2.958).
3. Mohamed Sanusi Shiru, Shamsuddin Shahid, **Noraliani Alias, N.** and Eun-Sung Chung., (2018), Trend Analysis of Droughts during Crop Growing Seasons of Nigeria, *Sustainability*,.10(3), 871 (IF 1.789).

## PUBLICATIONS (Conference Proceedings)

1. **Alias, N.**, Abd. Rahman, N., and Sukirman, Y (2000). *Migration of Light Nonaqueous Phase Liquid (LNAPL) in Unsaturated Zone.* Seminar on Construction. UTM, Johor.
2. Abd. Rahman, N, **Alias, N** and Sukirman, Y. (2001). *Study of Hydrocarbon Migration in Subsurface Systems.* BROWNFIELD 2001: 1<sup>st</sup> National Conference on Contaminated Land. 14-15 February 2001.
3. Abd. Rahman, N., **Alias, N.**, Ansari, K and Othman, N. (2005). *Evaluation Study for Infiltration in Sewerage System.* Prosiding Seminar Kebangsaan Penyelidikan Kejuruteraan Awam (SEPKA 2005). Malaysia: Fakulti Kejuruteraan Awam, UTM. 144-151.
4. **Alias, N.**, Abd. Rahman, N and Sukarti, M.Y. (2005). *Influence of Volume and Type of Spillage on Light Nonaqueous Phase Liquid (LNAPL) Migration.* Prosiding Seminar Kebangsaan Penyelidikan Kejuruteraan Awam (SEPKA 2005):. Fakulti Kejuruteraan Awam, UTM. 159-163.
5. Mohd Nor, F., **Alias, N.**, (2006). Improvement of Learning Skill through Assessment of Course Outcomes. Paper presented at UPSI Regional Seminar and Exhibition on Education Research. Putra World Trade Centre, Kuala Lumpur.
6. Abd Rahman, N., Othman, M.A.R., **Alias, N.**, Mohd Salleh, S.S., Othman, N., Mohamad, A.F., Ansari, K. (2006). *Evaluation of Design Criteria for Inflow and Infiltration of Medium Scale Sewerage Catchment System.* Project Report. Faculty of Civil Engineering. Universiti Teknologi Malaysia.
7. Abd Rahman, N., Abu Hassan, S., **Alias, N.**, Othman, S.R., Romali, N.S., Shukri, M.F. (2008). *Application of GFRP Rubbish Trap in Open Channel System.* Paper presented at the 6<sup>th</sup> Seminar on Water Management (JSPS-VCC). Universiti Teknologi Malaysia.
8. Abd Rahman, N., **Alias N.**, Romali N.S., Othman, N. (2009). *Evaluation of Gross Pollutant Traps (GPTs) for Open Channel System.* Paper presented at the International Conference on Water Resources, ICWR 2009, Langkawi, 1-7.
9. **Alias, N.**, Egodawatta, P., Goonetilleke, A. (2013). *First Flush Analysis in Urban Catchment.* Proceedings of the 16th International Conference on Diffuse Pollution and Eutrophication, International Water Association, Beijing, China.
10. **Alias, N.**, A., Egodawatta, P., Goonetilleke, A. (2015) *Investigation on parameters influence first flush occurrence in urban residential catchment.* The 3<sup>rd</sup> International Conference on Water Resources ICWR2015.24-25<sup>th</sup> December 2015, Bayview Hotel, Langkawi, Kedah.
11. **Alias, N.**, Mohd Yusof, A, A., Nor Anuar, A., Azman, S., Alias, N.E (2015) *Drought Analysis using Streamflow Drought Index* JSPS Asian Core Program (5<sup>th</sup> Comprehensive Symposium), 17-22 December 2015, Kyoto Universiti, Japan

12. **Alias, N.**, Mohd Yusof, A. A., Nor Anuar, A., Hanapi, M, N., Haron, S., (2016) *Investigation of Drought Phenomenon Using Streamflow Drought Index*, Joint Conference; The 11<sup>th</sup> International Civil Engineering Post Graduate Conference – The 1<sup>st</sup> International Symposium on Expertise of Engineering Design, 26-27<sup>th</sup> September 2016, Universiti Teknologi Malaysia, Malaysia.
13. **Alias, N.**, Nor Anuar, A., Azman, S.,Jauhari, Z., (2017) *Drought Analysis using Standard Precipitation Index*, 2<sup>nd</sup> International Sysposium on Expertise of Engineering Design, 9-11 May 2017, Kyocera Hotel, Kagoshima, Japan.
14. **Alias, N.**, Goonetillee, A., Egodawatta, P., (2017), *First Flush of Stormwater Runoff from Urban Residential Catchments*, 2<sup>nd</sup> International Sysposium on Expertise of Engineering Design, 9-11 May 2017, Kyocera Hotel, Kagoshima, Japan
15. Zuraini, N.A, **Alias, N**, Abd Rahman, N, Harun, S, Ibrahim, Z, Azman, S and Jumain, M., (2017) *Influence Of Rainfall Characteristics On Total Suspended Solid Concentration*, International Postgraduate Conference on Engineering, Science and Technology 2017, 1<sup>st</sup> Nov 2017, Malaysia
16. Jumain, M, Ibrahim, Z, Ismail, Z, Entalai, K, Makhtar, M.R, M S A Rahman, M.S.A and **Alias, N.**, (2017), *Influence of Riparian Vegetation on Flow resistance in Mobile Bed Straight Compound Channels*, International Postgraduate Conference on Engineering, Science and Technology 2017, 1<sup>st</sup> Nov 2017, Malaysia.
17. Halit, A.L, Azman, S, Mohd Said, A.A, **Alias, N**, and Ali, N., (2017), *Cadmium and Chromium Accumulation in Cocklees along estuary of Sungai Tampok and Sungai Sanglan*, International Postgraduate Conference on Engineering, Science and Technology 2017, 1<sup>st</sup> Nov 2017, Malaysia.

#### PUBLICATIONS (Others)

1. **Alias, N.** (2013). First Flush Behaviour in Urban Residential Catchments. Ph.d Thesis

#### REVIEWER (CONFERENCE/JOURNAL)

1. The 1<sup>st</sup> National Conference on Non Point Sources Pollution (NPS2014), Vivatel Hotel, Kuala Lumpur.
2. The 3<sup>rd</sup> International Conference on Water Resources ICWR2015. 24-25<sup>th</sup> December 2015, Bayview Hotel, Langkawi, Kedah.
3. International Conference on Sustainable Environment and Water Research (ICSEWR2015), Le Grandeur Palm Resort, Senai, Johor.
4. Modern Civil Engineering in Trend of the Sustainable Infrastructure Development (Book), 2015.
5. The Malaysian Journal of Civil Engineering (MJCE), vol 27, Special Issue 1 &2, 2015 (SEPKA2014)
6. 37<sup>th</sup> IAHR World Congress (9 papers), 13-18 August 2017, Kuala Lumpur
7. The Malaysian Journal of Civil Engineering (MJCE) (2017)
8. Special Issue - Jurnal Teknologi 2018 (JTEK2018-ID-F043)
9. Special Issue - Jurnal Teknologi 2018 (JTEK2018-ID-F150)

10. 4th International Conference on Civil and Environmental Engineering for Sustainability (IConCEES 2017), Bayview Hotel, Langkawi, Malaysia.

#### REVIEWER (RESEARCH GRANTS)

1. GUP 2015/3, Tier 1: Intergrated Watershed Approach for Environmental Flow Management of Johor River Catchment in Malaysia.
2. GUP 2016/1, Tier 1, Modelling of oil spill for coastal waters at Port of Tanjung Pelepas (PTP)

#### CHAIRPERSON/FORUM MODERATOR

1. Chairman of Session: Kajian Bencana Banjir, Everly Hotel, Putrajaya.
2. Chairman of Session ‘The 1<sup>st</sup> National Conference on Non-Point Sources Pollution 2014 (NPS 2014), 14-15 May 2014, Vivatel, Kuala Lumpur.
3. Chairman of Session ‘The 11<sup>th</sup> International Civil Engineering Post Graduate Conference – The 1<sup>st</sup> International Symposium on Expertise of Engineering Design, 26-27<sup>th</sup> September 2016, Universiti Teknologi Malaysia, Malaysia.

#### RESEARCH GRANT

##### Active

1. Influence of Rainfall Characteristics on First Flush Behaviour in Tropical Area. Vote 4F896, FRGS, MOHE (RM107,000.00 ), 1/8/2016 – 31/7/2019. **Principal Investigator**
2. Integration of Distributed and Lumped Hydrological Models for Enhanced Prediction of Catchment Runoff, Vote 17H50, GUP Tier 1, UTM (RM40,000.00 ), 1/7/2017 – 31/12/2018,. **Research Member**
3. Reducing Riverbank Erosion in Kelantan Catrchment Using A Rip-Rap Revetment, Q.J130000.2662.14J, (RM20,000), 1/7/2017 – 30/6/2018, **Research Member**
4. Projek Pemasangan Sistem Penuaian Air Hujan di Masjid A-Mutaqqin, Wangsa Maju, S.K 130000.0843.4Y118, (rm60,000), 10/10/2017 - 9/10/2018, **Research Member**.
5. Study of NAPLS Migration in Laterite Soil Under Vibration Effect, Vote 01409, GUP Tier 1, UTM (RM50,000.00 ), 1/2/2018 – 31/1/2020, **Principal Investigator**.

## Completed

1. Evaluation of Design Criteria for Inflow and Infiltration of Medium Scale Sewerage Catchment - VOT:74281, (23<sup>rd</sup> October 2004- 31<sup>st</sup> December 2006). **Research Member**
2. Integrated Models in Adaptation to Climate Change Impact for Reservoir Operation at Bukit Merah Reservoir System – Vote. 4L828, TRGS, MOHE (RM64,000.00), December 2012 – December 2015. **Research Member.**
3. Rainwater Harvesting in UTM Catchment –Vot. 01G19, GUP (RM), April 2013 – March 2014. **Research Member.**
4. Influence of Catchment Morphometry on Flood Characteristics for Kelantan River Basin – Vote. 4L828, TRGS, MOHE (RM133,400.00), April 2015 – Mac 2016. **Principal Investigator**
5. Computational Modelling of Kelantan River for December Event - Vote 4L833, TRGS, MOHE (RM99,000.00), April 2015 – Mac 2016. **Research Member**
6. Developing Vulnerability Indices to Flooding for the Kelantan River Basin – Vote. 4L827, TRGS, MOHE (RM119,200.00), April 2015 – Mac 2016. **Research Member**
7. Reducing Flood Hazard based on structural and non-structural approaches: A perspective from Geospatial Technology and Hydrodynamic Simulation Vote 4F699, FRGS, MOHE (RM70,000.00 ), April 2015 – Mac 2016. **Research Member**
8. Hydrodynamic Simulation of Kelantan River Bank Erosion and Channel Change During Heavy Floods. Vote 4F692, FRGS, MOHE (RM36,500.00 ),April 2015 – Mac 2016. **Research Member**

## AWARD

1. Faculty Special Award – Study Leave, Fakulti Kejuruteraan Awam, UTM (2012).
2. Penghargaan Khas (Juruaudit Dalam ISO9001:2008) – Fakulti Kejuruteraan Awam, UTM (2015)
3. Penghargaan Khas (SEPKA 2014) - Fakulti Kejuruteraan Awam, UTM (2015)
4. Penghargaan Khas (SEPKA 2014) - Fakulti Kejuruteraan Awam, UTM (2015)
5. Penghargaan Khas Fakulti (UTM Bridge 2015) - Fakulti Kejuruteraan Awam, UTM(2015)
6. Anugerah Pengajaran (Active Blended Learning Course SKAA1513 – Mekanik Bendalir) Semester 1 2015/2016 – UTMLead (2016)
7. Anugerah Khas Dekan 2018 – Fakulti Kejuruteraan Awam, UTM (2018)

## ADDITIONAL RESPONSIBILITIES (Conference)

1. Tresurer



The 1<sup>st</sup> National Conference on Non-Point Sources Pollution 2014 (NPS 2014),  
14-15 May 2014, Vivatel, Kuala Lumpur.

2. Chief of Publication,  
National Seminar on Civil Engineering Research (SEPKA 2014),  
14-15 April 2014, UTM Training Center, Johor.
3. Committee Persidangan Kajian Banjir 2014  
4-6 April, 2016  
Pullman Lakeside, Putrajaya

#### **ADDITIONAL RESPONSIBILITIES (Administration)**

1. Course Coordinator for Intergrated Water Resources Management (SAB 4613/MAL1023) (30 Oct 2013 – 28 Oct 2014 - current)
2. Course Coordinator for Intergrated Water Resources Management (SAB 4613/MAL1023) (30 Oct 2013 – 28 Oct 2014 –current)
3. Postgraduate Coordinator (M.Eng Hydraulics and Hydrology) (2016 –current)
4. Lead Auditor Faculty ISO 9001:2015 since 2017

#### **ADDITIONAL RESPONSIBILITIES (Committee Member – University/Faculty Level)**

1. Committee Member Kursus Intensif Hidrologi, Jabatan Hidraul dan Hidrologi (1 February 2002).
2. Committee Member of Task Force Perlaksanaan Program Pengajaran Dalam Bahasa Inggeris (1 April 2002).
3. Committee Member of Task Force E-Learning 2002/2003 (1 April 2002).
4. Committee Member of Task Force of Penerbitan NC (APNC) 2005.
5. Department's representative for Pengemaskinian Maklumat Laman Web Rasmi, Fakulti Kejuruteraan Awam (1 July 2013 – 30 June 2015).
6. Committee Member of Festival Inovasi dan Kreativiti 2013 @UTMOST Imagination.
7. Committee Member of Jawatankuasa Projek Sarjana Muda (1 Nov 2013 – 28 Nov 2014).
8. Task Force Head 'To Ensure Postgraduate Students as Transformation Ambassador/agents (1 Jan 2013 – 31 Dec 2013).
9. Committee Member of Community Project "Rainwater Harvesting System for Agriculture (Paddy Field) at Kg, Air Papan, Mersing.
10. Ahli Jawatankuasa Task Force Laporan Akreditasi EAC (2017)

11. Ahli Jawatankuas Task Force Meningkatkan Kebolehan Graduan ke Tahap Global Melalui Pemeraksanaan Tradisi Keintelektualan dan Mida Keusahawanan.

#### ADDITIONAL RESPONSIBILITIES (Viva Voice)

##### Chairman Assistant (Ph.D)

1. Ali H. Ahmed Suliman's Viva Voice on 2 Oct 2013
2. Mohsen Salarpour Goodarzi on 29 May 2014
3. Nurul Nadrah Aqilah binti Tukimat on 17 July 2014
4. Hasnida Harun on 26 April 2016

#### OTHERS

1. Fasilitator Bengkel Pemurnian Pelaksanaan Sistem Baru ICGPA Program Pasca Siswazah Fakulti Kejuruteraan Awam, 27 Februari 2017.
2. Judge "Three Minute Thesis (3MT) Competition 2017, Faculty Level), 16<sup>th</sup> March 2017
3. Petugas Hari Informasi Pascasiswazah Mei 2017, 14 May 2017
4. Members of Academic Leadership Talent Management (ALTM) Universiti Teknologi Malaysia