

CURRICULUM VITAE



A. PERSONAL DETAILS

1. Name : Jazuri Abdullah, Ph.D.
2. Date of Birth : 17 Oct. 1980
3. Sex : Male
4. Office Address : Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia
5. Tel: : (6) 03 - 5521 1854 (office)
: (6) 013 - 383 1710 (mobile)
6. E-mail : jazuri9170@salam.uitm.edu.my



<https://scholar.google.com.my/citations?user=y8cpgWIAAAAJ&hl=en>



<http://prisma.uitm.edu.my/prisma/?doit=DirectoryStafByIdDetail&staffid=Vmtab2QxRnJOVIZXVkJaT1IYcEdWbGRVVG1wTIZUbFNVRIF3UFE9PQ>

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=56404280600>

B. BRIEF PERSONAL HISTORY

JAZURI ABDULLAH is a senior lecturer at the Faculty of Civil Engineering (FCE), Universiti Teknologi MARA (UiTM). He joined UiTM in September 2013 after completing his PhD in Civil Engineering at Colorado State University, USA. He received his M.Sc. degree in Water Resources Engineering and Management from the University of Stuttgart, Germany and the Bachelor of Engineering degree from the FCE, UiTM, Malaysia. Mr. Abdullah is also a member of the Board of Engineers, Malaysia (BEM) and a graduate member of the Institute of Engineers, Malaysia (IEM). Currently, he teaches undergraduate level (i.e. Water Resources Engineering) and graduate level (Flood Mitigation and Management, Advanced Water Supply Engineering and Water Resources Planning and Management). His research interests are hydrological modelling, statistical approach in climate analyses and hydrodynamics and sediment transport modelling system. Presently, he supervises seven (7) PhD

and three (3) master students and involved in several researches (e.g. RAGS, FRGS and E-SCIENCE) and consultations (e.g. LUAS, NAHRIM, TNB, UKMP, LSANK and EDA Services) projects.

C. ACADEMIC QUALIFICATION

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Colorado State University, USA	PhD in Civil Engineering	2013
2.	University of Stuttgart, Germany	MSc in Water Resources Engineering and Management	2007
3.	Universiti Teknologi MARA, Malaysia	Bachelor of Engineering (Civil) (Hons.)	2004
4.	Universiti Teknologi Malaysia, Malaysia	Diploma in Civil Engineering	2001

D. WORKING EXPERIENCE

1.	Sept. 2013 - Present	Senior lecturer, Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), Shah Alam
2.	April 01, 2013 - June 30, 2013	Internship - Hydraulic and Hydrology MWH Global, Denver, CO., USA
3.	Sept. 2007 - Aug. 2009	Lecturer, Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM) Pulau Pinang
4.	2004 - 2005	Tutor Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), Shah Alam

E. PROFESSIONAL QUALIFICATIONS

1. Member of Board of Engineers Malaysia (BEM) - Membership No. 53793A
2. Graduate Member of Institution of Engineers Malaysia (IEM) - Membership No. 31760

F. AREA OF RESEARCH

Hydrological Modelling, Water Resources Engineering, Hydrodynamic and Sediment Transport Modelling System

G. RESEARCH GRANTS

1. Flash Flood Potential Index for Highly Urbanized Tropical City based on Statistical Multi-Criteria Analysis, FRGS (Ref: FRGS/1/2018/TK10/UITM/02/5) (Jan. 2019 – Dec. 2022) (Active)
2. Return period and risk of droughts in Peninsular Malaysia, FRGS (Ref: FRGS/2/2014/KT02/UKM/03/2) (RM---) (Active)
3. Flood simulation at OIA, UiTM Shah Alam, REI (July 2016 – July 2019) (RM32,000.00) (Active)
4. Cloud Microphysics and Cumulus Parameterization Schemes of the WRF for Intense Rainfall Episodes Forecast, FRGS (Ref: FRGS/1/2015/TK01/UITM/02/10) (Nov. 2015 – Nov. 2018) (RM68,200.00) (Active)
5. Development of a Numerical Solution for River Channel Processes due to Bank Erosion, E-SCIENCE (Jan. 2015 – Jul. 2017) (RM148,000.00) (Completed)
6. Assessment and Prediction of Streambank Erosion Rates in the Erosion Susceptible Area, RAGS (Ref: RAGS/1/2014/TK02/UITM//10) (Dec. 2014 – May 2017) (RM69,000.00) (Completed)
7. Simulation modeling of midland points bars formation leading to bifurcation in sand bed channel, RAGS (Ref: RAGS/1/2014/TK02/UITM//11) (Dec. 2014 – May 2017) (RM80,000.00) (Completed)
8. Soil Erodibility Assessment for Stream Bank Erosion and Stability, RAGS (Ref: RAGS/1/2014/TK02/UITM//7) (Dec. 2014 – May 2017) (RM72,000.00) (Completed)
9. A prediction of Lateral Migration in the Straight Channel on Flume Test, RAGS (Ref: RAGS/1/2014/TK02/UITM//15) (Dec. 2014 – May 2017) (RM80,000.00) (Completed)
10. Characterization of Estuarine Salinity Convergence, RAGS (Jan. 2013 – Jun. 2015) (RM80,000.00) (Completed)

H. PUBLICATI

ON 2018

1. Tholiban, D. A., Ariffin, J., **Abdullah, J.**, Othman, Z. and Nujid, N. N. (2018), Volume and widening ratio trends on sand bed channel due to bar formation, International Journal of Engineering and Technology, 10(2) (SJR: 0.18, H-Index: 13, Q3)
2. **Abdullah, J.**, Muhammad, N. S., Julien, P. Y., Ariffin, J. and Shafie, A. (2018), Flood Flow Simulations and Return Period Calculation for the Kota Tinggi Watershed, Malaysia, Journal of Flood Risk Management, 11, 5766-5782 (IF: 3.121, SJR: 0.59, Q1)
3. **Abdullah, J.**, Muhammad, N. S., Osman, S. Z. M. (2018), Analyses of Watershed Characteristics Based on Different Sources of Digital Elevation Model, International AIP Conference on Advances in Civil Engineering and Science Technology (ICACEST) 2018
4. **Abdullah, J.**, Muhammad, N. S. and Julien, P. Y., Envelope curves for the specific discharge of extreme floods in Malaysia, Journal of Hydro- Environment Research (IF:2.087, SJR:0.91, Q1) (Final Review)

2017

1. Ibrahim, S. L., **Abdullah, J.**, Hashim, K., and Ariffin, J. (2017), Establishment of JET Index Ji for Soil Erodibility Coefficients Using Jet Erosion Device (Jed), *International Journal of GEOMATE*, 12(34), 152-157 (SJR: 0.28, Q2)
2. Tholiban, D. A., Ariffin, J., **Abdullah, J.**, Nazarudin, A., Yusof, N. A. M. and Tholiban, D. (2017), Empirical Model and Validation of Bar Formation in Sand Bed Channel, *MATEC Web of Conference*, 95, (SJR: 0.13)
3. Awang, A. N. A., Ariffin, J., Razi, M. A. M. and **Abdullah, J.** (2017), Environmental Degradation: A review on the potential impact of river morphology, *MATEC Web Conference*, 103 (SJR: 0.13)
4. Awang, A. N. A., Ariffin, J., Razi, M. A. M. and **Abdullah, J.** (2017), Urban hydrology and hydraulic research, *MATEC Web Conference*, 103 (SJR: 0.13)

2016

1. Muhammad, N. S., Akashah, A. I. and **Abdullah, J.** (2016). Analysis of Extreme Rainfall Indices in Peninsular Malaysia, *Jurnal Teknologi (Science and Engineering: Advanced Research in Electrical and Electronic Engineering Technology)*, Penerbit UTM Press (SJR: 0.15, Q3)
2. Tholiban, D. A., Ariffin, J. and **Abdullah, J.** (2016), Centerline Bed Elevation Profile of Sand Bed Channel due to Bar Formation, *IOP Conference Series: Materials Science and Engineering* 136, doi:10.1088/1757-899X/136/1/012066 (SJR: 0.16)
3. Saadon, A., Ariffin, J., **Abdullah, J.** and Daud, N. M. (2016), Dimensional Analysis Relationship of Streambank Erosion Rates, *Jurnal Teknologi (Science and Engineering: Advanced Research in Electrical and Electronic Engineering Technology)*, Penerbit UTM Press (SJR: 0.15, Q3)
4. Tholiban, D. A., Ariffin, J., **Abdullah, J.** and Idrus, J. (2016), Experimental Study of Bar Formation in Sand Bed Channel, *Jurnal Teknologi (Science and Engineering: Advanced Research in Electrical and Electronic Engineering Technology)*, Penerbit UTM Press (SJR: 0.15, Q3)
5. Ariffin, J., **Abdullah, J.** and Daud, N. M. (2016), Dimensional Analysis Relationships of Streambank Erosion Rates, *Jurnal Teknologi (Science and Engineering: Advanced Research in Electrical and Electronic Engineering Technology)*, Penerbit UTM Press (SJR: 0.15, Q3)
6. Ibrahim, S. L., Ariffin, J., **Abdullah, J.**, Muhammad, N. S., (2016), Jet Erosion Device (Jed) – Measurement of Soil Erodibility Coefficient, *Jurnal Teknologi (Science and Engineering: Advanced Research in Electrical and Electronic Engineering Technology)*, Penerbit UTM Press (SJR: 0.15, Q3)
7. Tholiban, D. A., Ariffin, J. and **Abdullah, J.** (2016), Dimensional Analysis of Bar Formation in Sand Bed Channel, *Procedia Engineering*, 162, 357- 364 (SJR: 0.282)
8. **Abdullah, J.**, Wahid, M. A., Jani, J., Ali, M. F., Selamat, M. K. and Shamsuddin, N. (2016), Simulation of the aquaculture activity impact on water quality at Sungai Sepang Besar, *International Conference on Agricultural and Food Engineering (Cafei2016)*, 23 – 25 August 2016

2015

1. **Abdullah, J.**, Muhammad, N. S. and Sharif, N. A. M. (2015). Estimation of peak Discharges Using Flood Frequency Analysis and Hydrological Modelling System, Proceedings of the 2nd International Symposium on Flood Research and Management, Edited by Bakar, S. H. A, Tahir, W., Wahid, M. A. Nasir, S. R. M. and Hassan, R., Shah Alam, Selangor, Malaysia, October 5-6, 2015, Springer Verlag, Singapore
2. Basri, Z. D. M., Othman, Z., Wahid, M. A. and **Abdullah, J.** (2015). Detection and Transportation of Nutrients and Pathogenic Bacteria at Kerayong River, Proceedings of the 2nd International Symposium on Flood Research and Management, Edited by Bakar, S. H. A, Tahir, W., Wahid, M. A. Nasir, S. R. M. and Hassan, R., Shah Alam, Selangor, Malaysia, October 5-6, 2015, Springer Verlag, Singapore
3. Ibrahim, S. L., Ariffin, J, **Abdullah, J.** and Muhamad, N. F. (2015). Jet Erosion Device (Jed) – Measurement of Soil Erodibility Coefficients. International Conference on Sustainable Environment and Water Research (ICSEWR2015) ARPN Journal of Engineering and Applied Sciences (ISSN: 1819-6608) (SJR: 0.2, Q3)
4. **Abdullah, J.**, Arbayee, A. and Muhammad, N. S. (2015). Simulation of Peak Discharges for Different Land Use, 3RD International Conference on Water Resources (ICWR-2015), Langkawi, Malaysia, November 24- 25, 2015
5. Muhammad, N. S., Akashah, A. I. and **Abdullah, J.** (2015). Changes of Rainfall Trends in Peninsular Malaysia, 3RD International Conference on Water Resources (ICWR-2015), Langkawi, Malaysia, November 24-25, 2015

2014

1. Julien, P. Y., **Abdullah, J.** and Muhammad, N. Z. (2014). "Analysis of Extreme Floods in Malaysia" Keynote address, Proceedings of the 1st International Symposium on Flood Research and Management, Edited by Bakar, S. H. A, Tahir, W., Wahid, M. A. Nasir, S. R. M. and Hassan, R., Kota Kinabalu, Sabah, Borneo, Malaysia, September 28-October 1, 2014, Springer Verlag, Singapore, 16p
2. Ghazvinei, P. T., Ariffin, J., **Abdullah, J.**, and Mohamed, T. A. (2014), Assessment of Local Scour at Bridges Abutments, Research Journal of Applied Science, Engineering and Technology, 8(3): 296-304 (SJR:0.15, Q3)
3. Ghazvinei, P. T., Ariffin, J., **Abdullah, J.**, and Mohamed, T. A. (2014), Comparative Analysis between Observed and Predicted Contraction Scour at Bridges Abutments, Research Journal of Applied Science, Engineering and Technology, 8(4): 452-459 (SJR:0.15, Q3)
4. **Abdullah, J.**, Muhammad, N. S. and Julien, P. Y. (2014), Hydrological Modeling in Malaysia, Proceedings of the 1st International Symposium on Flood Research and Management, Edited by Bakar, S. H. A, Tahir, W., Wahid, M. A. Nasir, S. R. M. and Hassan, R., Kota Kinabalu, Sabah, Borneo, Malaysia, September 28-October 1, 2014, Springer Verlag, Singapore,
5. **Abdullah, J.** and Julien, P. Y., (2014), Distributed Flood Simulations on a Small Tropical Watershed with the TRES Model, Journal of Flood Engineering, 5(1-2), 17-37, ISSN: 0976-6219

6. **Abdullah, J.**, Kim, J. and Julien, P. Y. (2014), Distributed hydrologic modeling of extreme events, Encyclopedia of Natural Resources, Taylor & Francis Group, DOI:10.1081/E-ENRW-120047597

2013

1. **Abdullah, J.** and Julien, P. Y. (2013). "Distributed monsoon flood modeling at Kota Tinggi, Malaysia." Hydrology Days, 34th Annual American Geophysical Union, Colorado State University, USA

2012

1. **Abdullah, J.** and Julien, P. Y. (2012). "Application of distributed hydrologic modeling (TREX model) of extreme events at Lui, Malaysia." Hydrology Days, 33rd Annual American Geophysical Union, Colorado State University, USA

2011

1. **Abdullah, J.** and Julien, P. Y. (2011). "Determination of distribution functions model for annual rainfall at Hulu Langat, Selangor, Malaysia." Hydrology Days, 32rd Annual American Geophysical Union, Colorado State University, USA

2010

1. Akbar, N. A., **Abdullah, J.**, Alias, S. and Issa, A. K. M. (2010). "Groundwater quality of boreholes used for domestic consumption in Perlis." Proceedings of the Regional Seminar on Science, Technology and Social Sciences, ISBN: 9789832607236
2. Akbar, N. A., Alias, S., **Abdullah, J.** and Muhammad, N. S. (2010). "Trends in daily precipitation extremes in Selangor, Malaysia." Proceedings of the International Conference on Arts, Technology and Social Sciences, ISBN: 9789832607236

2009

1. Ibrahim, C. C. K. I., Osman, M. H., **Abdullah, J.**, Baki, A. M. (2009). "Location Consideration in International Construction Markets by Malaysian Firms: Specific Locale Perspective." Proceedings of Conference on Scientific and Social Research (CSSR), Research Management Institute

I. CONSULTANCY

1. Kerja-Kerja penyediaan Laporan "State of the Coast Report – SOC 2015- 2017" untuk Daerah Kuala Selangor, Sabak Bernam, Klang, Kuala Langat dan Sepang. (RM460,000) (Active)
2. Engineering consultancy service for the validation and troubleshooting of hydraulic model for proposed Lamongan water supply scheme, Indonesia (RM87,600) (Active)
3. Kajian Pengurusan Lembangan Sungai Kedah 2019-2029 (Kajian Semula), Lembaga Sumber Air Negeri Kedah, (Task: hydrological and hydraulic modeling for Sungai Kedah catchment using TREX model. determined

- flood prone area and proposed and examined any structural and non-structural mitigation approaches) (RM185,500) (Active)
4. Integrated River Basin Management (IRBM) for Sg. Skudai, JPS-OMK Jurutera Perunding Sdn. Bhd. (RM50,000) (Task: hydrological and hydraulic modeling for Sungai Skudai catchment using TREX model. determined flood prone area and proposed and examined any structural and non- structural mitigation approaches) (Active)
 5. Hydrological Investigation for Hydropower Development for Tenaga Nasional Berhad (TNB), (Task: Consulting on hydrological modelling, MWA guidelines and design storage of the dam for different purposes) (RM23,400) (Completed)
 6. Cadangan menaiktaraf parit hujan lebat (monsoon drain) di belakang rumah Jalan SS 1/22A, Petaling Jaya, MBPJ - MTC Floating Solution Sdn. Bhd., (Task: Study the proposed drainage system at study area to reduce flood occurrence and magnitude using SWMM5.0 model) (Completed)
 7. Cadangan tebatan banjir di Jalan SS12/14, Seksyen 12, Petaling Jaya, MBPJ - MTC Floating Solution Sdn. Bhd., (Task: Study the proposed drainage system at study area to reduce flood occurrence and magnitude using SWMM5.0 model) (Completed)
 8. Cadangan menaiktaraf longkang serta lain-lain kerja berkaitan di Jalan SS 20/11, SS 20, Petaling Jaya, MBPJ - MTC Floating Solution Sdn. Bhd., (Task: Study the proposed drainage system at study area to reduce flood occurrence and magnitude using SWMM5.0 model) (Completed)
 9. Nenggiri Hydroelectric Project at Gua Musang, Kelantan, task: a) assessment of dam breach scenarios (dry and rainy days), b) determination of the dam breach discharge hydrograph, and c) determination of the areal extent, depth and timing of the flood wave, (---) (Completed)
 10. Kajian Penyediaan Pelan Pengurusan Lembangan Sungai Berspadu (IRBM) Lembangan Sungai Klang (2016-2021), Task: hydrological modeling for Klang Valley catchment using TREX model and determined flood prone area, (---) (Completed)
 11. Penyediaan Kesan Aktiviti Akuakultur di Kepulauan Klang Terhadap Ekosistem Marin untuk Lembaga Urus Air Selangor (LUAS), Member - Evaluate the navigation safety for boat and vessel, identify the appropriateness of the existing aquaculture location (RM150,000) (Completed)
 12. Perkhidmatan Mengumpul, Menyedia dan Membekal Data Hidrologi, Hidrodinamik, Gunatanah dan Struktur Hidraulik serta Menyedia dan Membekalkan Data-Data Kalibrasi dan Verifikasi untuk Kerja-kerja Penyelidikan Ke Arah Banjir Sifar di Lembangan Sungai Kelang (NRE-NAHRIM) – Towards Zero Flood (Task: Provide the calibrated and validated hydrological modeling for Kerayong catchment using TREX model and produced flood maps and impact the soft-structure in reducing the discharge) (RM368,000.00) (Completed)

J. **COMPETITIONS**

1. Development flood peak-discharge for large, rare and extreme events using distributed hydrological modelling, Invention, Innovation & Design Exposition 2017 (IIDEX2017), (SILVER Medal)

2. Vortexanda design as the particle removal system in the urban water infrastructure for small hydropower generation, Invention, Innovation & Design Exposition 2017 (IIDEX2017), (GOLD Medal)
3. Jet erosion device (Jed) for soil erodibility measurement, Invention, Innovation & Design Exposition 2017 (IIDEX2017), (GOLD Medal & DIAMOND award invention)
4. The Comparison of the Effectiveness of Energy Dissipator between Diagonal and Square Shape Baffle Blocks at Stilling Basin, From Research and Innovation to Wealth, Invention, Innovation and Design (7TH IID 2010), (BRONZE Medal)
5. Determination of Drag Force Coefficient Using Various Configuration Baffle Block, From Research and Innovation to Wealth, Invention, Innovation and Design (6TH IID 2009), 13 – 15 January 2009 (Participant)

K. SPEAKER

1. Speaker: Hydrological modelling, water demand and design dam storage, "Short Course on Hydrological Investigation for Hydropower Development for Hydro-Services Unit", Tenaga Nasional Berhad (TNB), 13 – 16 August, 2018
2. Invited Speaker: Analysis of extreme floods in Malaysia, "Future Malaysia Flood Protection, Response, Recovery & Drawing up of Flood Risk Management Plans Conference 2018", Berjaya Times Square Hotel, Kuala Lumpur, 24 – 25 April 2018
3. Facilitator: Watershed modelling, Short Course on River Engineering: Theory and Modelling, UiTM Shah Alam, 13 – 15 March 2018
4. Invited speaker: Water Quality Impact Modelling, 9TH i-GEO Seminar Series on Water Quality: Impacts, Implication and Mitigation Measures, Infrastructure University Kuala Lumpur (IUKL), 23 January 2018
5. Speaker: Heavy Metals Modelling using Distributed Model, Workshop on Water Quality Monitoring and Modelling, UiTM Shah Alam, 22-24 November 2017
6. Speaker: Short course on "Hydrological Modelling – Distributed model", Lembaga Urus Air Selangor (LUAS), May 17, 2017
7. Speaker: Short course on "Integrated Hydrological and Watershed Modelling", Department of Irrigation and Drainage (DID) Selangor, February 20, 2017
8. Academic Training for Institut De Technologie Du Cambodge, "Watershed Management", August 1-14, 2016
9. Invited speaker on Short Course: "Hydrological Modelling in Malaysia", International Symposium Flood Research and Management 2015 (ISFRAM2016), October 2015
10. Speaker and Facilitator: Training on "Application of the TRES model for Kerayong Catchment, Kuala Lumpur", Flood Control and Research Center, Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM), Shah Alam, Selangor, October 08 and 15, 2014
11. Invited Speaker: Flood Management in Malaysia, "Maintenance and Rehabilitation of Roads and Bridges Using Road Asset Management System (RAMS)", Malaysia Institute of Transport (MITRANS) UiTM, Concorde Hotel, June 16 – 26, 2014

12. Speaker and Facilitator: Short course on "Application of the TREX model for Malaysia watershed", National Hydraulic and Research Institute of Malaysia (NAHRIM), March 24 – 25, 2014

L. **STUDENTS**

Doctor of Philosophy (Ph.D) (Name, Status)

1. DURATUL AIN BINTI THOLIBAN (Graduated – Sept. 2016) Title: Flow Sediment Matrices
2. SAERAHANY LEGORY BINTI IBRAHIM (Graduated – Sept. 2017) Title: Lateral Migration Simulation
3. AZLINDA BINTI SAADON (Graduated – Sept. 2017) Title: Numerical Model for River Bank Erosion
4. ZAMSALWANI BINTI ZAMRI (Graduated – Dec. 2018) Title: The ARIs effect to the bar formation
5. ZULHAFIZAL OTHMAN (Active)
Title: Computer Simulation on the Effect of Pharmaceutical Waste in the River
6. AISAR ASHRA MUHAMMAD ASHRI (Active) Title: Radar Analysis
7. SITI ASIAH (Active)
Title: Flash Flood Analysis

Master (Research) (Name, Status)

1. SITI FARAHAHIN KAMARUDDIN (Graduated)
Title: Determination of Hydraulic Conductivity for Gravel and Sand Mixtures (*Note: Double Degree Program: Universität Stuttgart (Supervisor: Prof. Silke Wieprecht, Ph.D.) and Universiti Teknologi MARA*)
2. SITI HAJAR MD NOOR AZAM (Active)
Title: GIS Based Water Management for Oil Palm Plantation
3. NUR SYAHIDA ABD MANAF (Active)
Title: Canopy interception role in flood forecasting