

## CURCULUM VITAE



### A. **PERSONAL DETAILS**

1. Name : Ts. Dr. Azlinda binti Saadon
2. Date of Birth : 30-03-1983
3. Sex : Female
4. Office Address : Level 17, Faculty of Civil Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
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<https://scholar.google.com/citations?hl=en&user=CbYadNYAAAAJ>



<https://prisma.uitm.edu.my/prisma/?doit=pubRec>



<https://www.scopus.com/authid/detail.uri?authorId=57189308779>

  
stands for  
Open Researcher and Contributor ID

<https://orcid.org/0000-0002-7280-1494>

**B. BRIEF PERSONAL HISTORY**

Azlinda Saadon obtained her Diploma in Civil Engineering Technology from Universiti Tun Hussein Onn (UTHM) in 2004, and Bachelor’s Degree in Civil Engineering (Hons.) from Universiti Teknologi MARA (UiTM), Malaysia in 2007. In 2012, she received a Master of Science in Civil Engineering (Water Resources) from Universiti Teknologi MARA (UiTM). She furthered her Doctorate Degree in UiTM and awarded a PhD in Civil Engineering in 2017. She started her career as academician in 2009, where she served the Faculty of Engineering, Technology and Infrastructure at the Infrastructure University Kuala Lumpur (IUKL). She recently joined UiTM in January 2021 as a senior lecturer at the Faculty of Civil Engineering. Her research interest includes river hydraulics and engineering, sediment transport, riverbank erosion, geomorphology and water resources.

**C. ACADEMIC QUALIFICATION**

<b>No.</b>	<b>Name of Institution</b>	<b>Degree/Qualification</b>	<b>Date awarded</b>
1.	Universiti Teknologi MARA, (UiTM), Malaysia	PhD in Civil Engineering	2017
2.	Universiti Teknologi MARA, (UiTM), Malaysia	MSc in Civil Engineering (Water Resources)	2012
3.	Universiti Teknologi MARA, (UiTM), Malaysia	Bachelor of Engineering (Hons.) Civil	2007
4.	Universiti Tun Hussein Onn (UTHM), Malaysia	Diploma of Technology in Civil Engineering	2004

**D. WORKING EXPERIENCE**

1.	2021-Present	Senior lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM) - Teaching undergraduates and postgraduates water resources subjects such as hydraulics, fluid mechanics, sediment transport and supervising final year project students.
2.	2019 - 2020	Senior Lecturer, Faculty of Engineering, Built Environment and Information Technology, SEGi University, Kota Damansara - Teaching undergraduates students water resources and geotechnical engineering subjects and supervising final year project students.
3.	2009 - 2019	Lecturer, Faculty of Engineering, Technology and

		Infrastructure (IUKL), Kajang - Head of Department from October 2011 – December 2012, and Teaching undergraduates and postgraduates water resources subjects such as hydraulics, fluid mechanics, hydraulics laboratory, water resources management, hydrology, sediment transport and supervising final year project students.
4.	2008 - 2009	Graduate Engineer, Puncak Niaga (M) Sdn. Bhd. - Project coordination between client, main contractor and sub-contractor (infrastructure work, water treatment process improvement works, intake structure).
5.	2007 - 2008	Graduate Engineer, Sepakat Setia Perunding Sdn. Bhd. - Involved in the design of infrastructure works (roadworks, drainage, water reticulation, and sewerage system)
5.	2004	Trainee – Majulia Sdn. Bhd., Shah Alam, Selangor.

E. **PROFESSIONAL QUALIFICATIONS**

1. Professional Technologist, Malaysia Board of Technologists (MBOT) - Since 2020 (Registration number: PT20090241).
2. Companion Member of The Institution of Engineers, Malaysia (IEM) – Since 2020 (Registration number: 112379).
3. Graduate Engineer, Board of Engineers Malaysia (BEM) - Since 2012 (Registration number: GE81365A)

F. **AREA OF RESEARCH**

River hydraulics, sediment transport, geomorphology, hydrology, Artificial Neural Network, water resources engineering and management.

G. **PHD THESIS**

Streambank Erosion Prediction using Empirical Model for Natural River Channels (2017)

H. **RESEARCH GRANTS**

1. Client: Ministry of Higher Education of Malaysia  
Year: 2022 - 2024  
Project title: **Transport Coefficient Algorithm for Sediment Yield Quantification in Dynamic Grid Environment**  
Role: Project member
2. Client: Ministry of Higher Education of Malaysia  
Year: 2022 - 2024

Project title: **Enhancement of Prediction Shoreline Changes in Sandy Coast Using Integrated Digital Shoreline Analysis System (DSAS) With End Point Rate (EPR)**

Role: Project member

3. Client: Selangor States Government  
Year: 2022  
Project title: **Geran Kecil Alam Sekitar dan Teknologi Hijau Negeri Selangor 2022, for the project "SMART Composting Bin – BOKASHI composting with sensor application**  
Role: Project member
4. Client: Ministry of Higher Education of Malaysia  
Year: 2022 - 2024  
Project title: **Formulation of Empirical Equation for quick Riverbank Erosion Prediction**  
Role: Project member
5. Client: Universiti Malaysia Pahang (UMP).  
Year: 2018 – 2019.  
Project title: **Investigation the Water Quality Effect due to The Presence of Nutrients and Heavy Metal from Sedimentation and Erosion in Jemberau River to Tasik Chini.**  
Role: Project member  
Work scope: Fieldwork Data Collection and Analysis.
6. Client: Humid Tropic Centre (HTC) Kuala Lumpur, Malaysia  
Year: 2016 – 2018  
Project title: **Kajian Muatan Sedimen Dan Aliran Biodiversiti di Sg. Chini** (2016 – 2018) - The Regional Humid Tropics Hydrology and Water Resources Centre for Southeast Asia and the Pacific.  
Role: Project member.  
Work scope: Fieldwork Data Collection and Analysis.
7. Client: Ministry of Science, Technology, and Innovation (MOSTI) of Malaysia.  
Year: 2015 -2017.  
Project title: **Development of a Numerical Solution for River Channel Processes due to Streambank Erosion (06-01-01-SF0773).**  
Role: Research assistant.  
Work scope: Assist in fieldwork, data collection and analysis.
8. Client: Ministry of Higher Education of Malaysia  
Year: 2014 – 2015

Project title: **Geran Dana Pembudayaan Akademik (RAGS), Assessment and Prediction of Streambank Erosion Rates in the Erosion Susceptible Areas, (RAGS/1/2014/TK02/UITM/10).**

Role: Research assistant.

Work scope: Assist in fieldwork, data collection and analysis.

## I. **PUBLICATION**

1. Saadon, A., Abdullah, J., Yassin, I.M., Muhammad, N.S., Ariffin, J. (2024). **Nonlinear Multi Independent Variables in Quantifying Riverbank Erosion using Neural Network AutoRegressive eXogenous (NNARX) Model.** Heliyon. <https://doi.org/10.1016/j.heliyon.2024.e26252>
2. Megat Ali, M.S.A., Zabidi, A., Tahir, N.M., Yassin, I.M., Eskandari, F., Saadon, A., Taib, M.N., Ridxuan, A.R. (2024). **Short-term Gini coefficient estimation using nonlinear autoregressive multilayer perceptron model.** Heliyon. <https://doi.org/10.1016/j.heliyon.2024.e26438>
3. Zhao, Y., Saadon, A., Abdullah, J. (2024). **Review of research on testing and models of the trigger mechanism of slope debris flows.** Natural Hazards, 1-25. <https://doi.org/10.1007/s11069-024-06478-4>
4. Saadon, A., Ibrahim, Z., Khamis, M.F.S. (2023). **Short Timescale Riverbank Erosion and Bank Stability of Sg. Bernam Using Bank Stability and Toe Erosion Model (BSTEM).** In: Othman, I.K., Mohd. Haniffah, M.R., Jamal, M.H. Proceedings of the 5th International Conference on Water Resources (ICWR) – Volume 2. ICWR 2021. Lecture Notes in Civil Engineering, vol 365. Springer, Singapore. [https://doi.org/10.1007/978-981-99-3577-2\\_10](https://doi.org/10.1007/978-981-99-3577-2_10)
5. Saadon, A., Manaf, N.A.M., Tholibon, D.A., Kamal, N.A., Yassin, A.I. (2023). **Best Practice Approach to Stage-Discharge Rating Curve: Case Study of Selected Rivers in Selangor.** Journal of Sustainable Civil Engineering and Technology e-ISSN: 2948-4294 Volume 2 Issue 2 (September 2023), 49-64. <https://joscetech.uitm.edu.my>
6. Henorman, H.M., Tholibon, D.A., Nujid, M.M., Mokhtar, H., Rahim, J.A., Saadon, A. (2022). **The Functional Relationship of Sediment Transport under Various Simulated Rainfall Conditions** for Fluids 2022, 7, 107. <https://doi.org/10.3390/fluids7030107>

7. Saadon, A., Kamal, N.A., Koon, L.W. (2022). **Water Demand Management: A Systematic Review of Selected National Water Balance Management System (NAWABS)**, ISBN: 978-983-9304-78-7.
8. Saadon, A, Abdullah, J., Mohamed, S., Ariffin, J., and Julien, P. (2020), **Predictive models for the estimation of riverbank erosion rates**, CATENA [Q1 Journal, Impact factor: 4.62].
9. Saadon, A., Abdullah, J., Mohamed, S., and Ariffin, J. (2020), **Development of riverbank erosion rate predictor for natural channels using NARX-QR Factorization model**, Neural Computing and Application [Q1 Journal, Impact factor: 4.63].
10. Saadon, A., Abdullah, J., and Ariffin, J. (2019). **Streambank erosion prediction** presented at Green Technology and Sustainable Development (GTSD) 2018 Conference, 24 October 2018, Paper accepted for publication in the IOP conferences Series: Earth and Environmental Sciences.
11. Saadon, A., Abdullah, J., and Ariffin, J. (2018), **Artificial Neural Network Autoregressive Exogenous (ANNARX) Streambank Erosion Prediction Model**, MATEC Web of Conferences, 255, 06003, Engineering Applications of Artificial Intelligence Conference (EAAIC 2018). [SJR: 0.169].
12. Saadon, A., Legori, S., Abdullah, J., and Ariffin, J. (2018), **Investigation of Streambank Stability using Erosion Pin and Vertical Profiling: The Case Study of Sg. Bernam**, Journal of Water Resources Management, 2018.
13. M. Dom, N., Ahmad, R., Sulaiman, S., Ibrahim, S.L., Saadon, A., Zamri, Z., Ghani, N.A.A., Tholibon, D.A., Kamal, N.A. and Ariffin, J. (2018), **Landuse Impacts on Water Quality of the Lake and River Environment of Tasik Chini Pahang**, Paper accepted at The 4th International Conference on Water Resources (ICWR-2018)
14. N.M. Dom, S. Sulaiman, J. Jaafar, N. Ahmad, D. S. Tholiban, S. Muhamad, S. Ibrahim, Saadon, A. Zamri and M. Raksmeiy and J. Ariffin (2016). **Water Quality and Land-use Study within Tasik Chini Catchment**, Journal of Water Resources Management No. 5, Vol (1), 30, ISSN 22891080.

15. Ibrahim, S.L., Ariffin, J., Saadon, A., **Riverbank erosion rates prediction incorporating soil erodibility and soil properties relationship: Bernam River, Malaysia case study, River Sedimentation** - Proceedings of the 13th International Symposium on River Sedimentation, ISRS 2016, Stuttgart, Germany, 19 -22 September 2016 River Sedimentation – Wieprecht et al. (Eds.) Taylor & Francis Group, ISBN: 978-1-138-02945-3.
16. Saadon, A., Ariffin, J., and Abdullah, J. (2016). APCEAS: Asia-Pacific Conference on Engineering and Applied Science Conference: **Streambank erosion prediction for natural channels**, 25 – 27 August 2016, published in International Journal of Applied Environmental Sciences, ISSN 0973-6077, Volume 11, Number 5 (2016), pp. 1273 – 1284.
17. Saadon, A., Ariffin, J., and Abdullah, J. (2015). ENVICET 2015, **Dimensional Analysis Relationships of streambank erosion rates**, Journal Teknologi, Environmental and Civil Engineering Technology International Conference, 1 – 3 December 2015, published in Journal Teknologi, eISSN 2180-3722, XX:1 (2015), pp. 1 – 6.
18. Ali, M. F., **Saadon, A.**, Abd Rahman, N. F., Khalid, K. (2014). **An Assessment of Water Demand in Malaysia using Water Evaluation and Planning System**, INCIEC 2014, Proceedings of The International Civil And Infrastructure Engineering Conference 2013, 2013, ISBN: 978-981-4585-01-9, Springer, Chapter in Book.
19. Saadon, A. (2014). IPGS 2014, **Riverbank erosion studies: a review on advances and measurement techniques**, International Post Graduate Seminar, UiTM, 25 – 26 June 2014.
20. Saadon, A. (2012). **Assessment of Water Demand in Langkat Catchment Using Water Evaluation and Planning (WEAP)**, 2012. <http://www.weap21.org/downloads/langat.pdf>

## J. CONSULTANCY

1. Client: The Ocean Cleanup
2. Year: 2022  
Project title: **Environmental Monitoring on the Interaction of Wildlife with the Operations of the Interceptor and the Barrier**  
Role: Team member (River hydraulics and biodiversity)
3. Client: Lembaga Urus Air Selangor (LUAS)  
Year: 2020-2021  
Project title: **Kajian Road Map Pemuliharaan dan Pembangunan Sungai-Sungai Negeri Selangor**  
Role: Team member (Social education)
4. Client: Evenfit Consultant Sdn. Bhd. and Drainage Irrigation Department.  
Year: 2018 – 2019.  
Project title: **Perkhidmatan Menyemak dan Mengemaskini Hydrological Procedure (HP) No. 10: Stage-Discharge Curves (1976) and HP No. 19: Determination of Suspended Sediment Discharge (1977) bagi Program Memperkasa Data dan Rangkaian Stesen Hidrologi Nasional (RHN) – Fasa 1 (2018 – 2019).**  
Role: Team member: Hydrologist.  
Work scope: Preparation of Hydrological Procedure No. 10 and No. 19, data collection, data analysis for sediment-discharge curves and sediment-discharge curves.

## K. AWARD AND ACHIEVEMENT

1. Gold Award, **Best Thesis Award for PhD.** Category (World Water Day Malaysia in March 2018).
2. Best Presenter Award for the **Green Technology and Sustainable Development (GTSD) 2018 Conference**, Category: Environment, Climate Change and Water Security, 24 October 2018.
3. Silver Award for the **6th Infrastructure University Innovation and Invention Competition (IUIIC 2017)** for the **Streambank Erosion Rates Prediction using ANNARX and Statistical Approach** (Leader).

4. Gold Award, in the **Invention, Innovation, and Design Exposition 2017 (iidex 2017)** for the Invention of **Jet Erosion Device (JEd) for Soil Erodibility Measurements** (Team Member).
5. Diamond Award (Open Young Inventor), in the **Invention, Innovation, and Design Exposition 2017 (iidex 2017)** for the Invention of **Jet Erosion Device (JEd) for Soil Erodibility Measurements** (Team Member).

L. **TRAINING APPOINTMENT**

1. Invited as trainer for the Training Course on Hydrological Design Procedures for Engineers and Water Managers, on 21 – 23 September 2020.
2. Invited as trainer for the Training Course on Hydrological Design Procedures for Engineers and Water Managers, on 5 - 6 August 2020.