



NUR HAIZUM BINTI ABD RAHMAN

SENIOR LECTURER

PROFESSIONAL SUMMARY

I am a Statistics Lecturer with six years of experience in teaching, research, and data analysis. I am well-versed in quantitative and qualitative methodology and possess a proven track record of successfully guiding students to reach their academic goals. My teaching approach is rooted in interactive learning, emphasizing on problem-solving and collaborative learning. My expertise is in data analysis, time series modelling, and forecasting.

I am adept at leveraging technology to enhance the learning experience, using software such as Excel, SPSS, R, Tableau, Python and Alteryx. My research publications have been regularly published in leading journals and I am actively involved in the academic community, attending conferences, symposiums, and seminars.

I am passionate about teaching and with my expertise, I am confident I can make a positive contribution to any educational institution.

CONTACT

Address:

Persiaran Seri Putra 2, Bandar Seri Putra,
43000 Kajang,
Selangor Darul Ehsan

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Email: haizum@umpssa.edu.my

EDUCATION

Doctor of Philosophy (Mathematics)

Specialization : Statistics (Time series forecasting)
University : Universiti Teknologi Malaysia (UTM)
Year : 2017

Bachelor of Science (Industrial Mathematics)

University : Universiti Teknologi Malaysia (UTM)
Year : 2010

Matriculation

Program : UTM-MARA Express Program
Matriculation : Universiti Teknologi Malaysia (UTM)

WORK EXPERIENCE

Senior Lecturer, Universiti Malaysia Pahang Al-Sultan Abdullah

Duration : 16 October 2023 - Present
Experience : Teaching, researcher, and administrative works

Senior Lecturer, Universiti Putra Malaysia

Duration : 1 August 2017 – 15 October 2023
Experience : Teaching, researcher, and administrative works

Survey Analyst, Universiti Teknologi Malaysia

Duration : 27 December 2011 – 11 January 2012
Experience : Analysis the data of graduate student in Faculty of Science and preparing the documentation for Deputy Dean (Academic)

PROFILE

Google Scholar Citation:

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

Scopus Author Details:

<https://www.scopus.com/authid/detail.uri?origin=resultslst&authorId=55353569900&zone=>

MEMBERSHIP

Life membership of Malaysia Institute of Statistics (ISM). Honorary Secretary: 2022 – 2024.

CONFERENCES

Presenter

1. Nur Haizum Abd Rahman. Activation Functions Performance in Multilayer Perceptron for Time Series Forecasting. *The 6th ISM International Statistical Conference 2023(ISM-VI 2023)*. Shah Alam, 19-20 September 2023.
2. Nur Haizum Abd Rahman. Spatio-temporal Analysis of COVID-19 Spread in Selangor. *4th International Conference on Mathematical Sciences and Statistics (ICMSS202)*. Virtual, 15-16 March 2022.
3. Nur Haizum Abd Rahman. Exponential Smoothing Constant Determination to Minimize the Forecast Error. *3rd Symposium on Multidisciplinary Science 2021 [V-SMS2021]*. Virtual, 7 July 2021.
4. Nur Haizum Abd Rahman. The Accuracy of Jump-Diffusion Model and Regression Analysis for Prediction of Malaysian Centrifuged Latex Prices. *2nd Symposium on Multidisciplinary Science 2020 [V-SMS2020]*. Virtual, 10 August 2020.
5. Nur Haizum Abd Rahman. Artificial Neural Network Forecasting Performance with Missing Value Imputations. *International Conference on Advances in Engineering, Computing and Applied Sciences (RAECAS2019)*. Langkawi, Kedah, 30 November – 1 December 2019.
6. Nur Haizum Abd Rahman. The Combination of Forecasts with Different Time Aggregation. *2nd International Conference on Applied & Industrial Mathematics and Statistics (ICoAIMS)*. Kuantan, Pahang, 23 – 25 July 2019.
7. Nur Haizum Abd Rahman. Combination of Forecast with Different Time Aggregations Approach. *The 6th International Conference on Mathematics and Statistics (ICoMS-VI) 2019*. Kuantan, Pahang, 2 – 3 April 2019.
8. Nur Haizum Abd Rahman. A Combination Index Measurement in Improving Hybrid Air Quality Forecast. *The 4th Innovation and Analytics Conference & Exhibition (IACE 2019)*, UUM Sintok, Kedah, 25 – 28 March 2019.
9. Nur Haizum Abd Rahman. Hybrid Seasonal ARIMA and Artificial Neural Network in Forecasting Southeast Asia City Air Pollutant Index. *International Quantitative Research and Application Conference 2018*, Kuching, Sarawak, 5 – 8 August 2018.
10. Nur Haizum Abd Rahman. Air Pollutant Index Data Visualization: Profiling Trends and Analysis. *Seminar Kebangsaan Institut Statistik Malaysia ke-12*. Universiti Putra Malaysia, 29 March 2018.
11. Nur Haizum Abd Rahman. Forecasting of Air Pollution Index with Artificial Neural Network. *1st ISM International Statistical Conference 2012*. Persada Johor, Johor Bahru, 4-6 September 2012.
12. Nur Haizum Abd Rahman. SARIMA Models for Modelling and Forecasting Air Pollution Index in Johor. *National Science Postgraduate Conference 2011 (NSPC 2011)*. Universiti Teknologi Malaysia, 15-17 November 2011.
13. Nur Haizum Abd Rahman. Forecasting Daily Air Pollution Data by using ARIMA Model. *Seminar Kebangsaan Pascasiswazah Statistik ISM 1*. Universiti Malaya, 12 May 2011.

Participant

1. Seminar Kebangsaan Institut Statistik Malaysia ke-17. Universiti Kebangsaan Malaysia. 28 February 2023.
2. 1st Mathematical Sciences and Statistics Seminar 2023. Universiti Putra Malaysia. 16 February 2023.
3. Seminar Statistik Belia Kebangsaan 2022 Bertemakan: Mengoptimumkan Keupayaan Generasi Muda Berpacuan Statistik & Fakta. Institute For Youth Research Malaysia (IYRES). 3 November 2022.
4. Malaysia Statistics Conference (MyStats) 9th edition. Department of Statistics Malaysia. 5 October 2022.
5. Seminar Kebangsaan Institut Statistik Malaysia ke-16. Universiti Putra Malaysia. 8 March 2022.
6. The 12th International Fundamental Science Congress (IFSC). Universiti Putra Malaysia. 24 – 26 August 2021.
7. The 5th International Statistical Conference 2021. Universiti Teknologi Malaysia. 17 – 19 August 2021.

8. Simposium Kebangsaan Sains Matematik ke-28. Universiti Malaysia Pahang. 28 – 29 July 2021.
9. Seminar Kebangsaan Institut Statistik Malaysia ke-15. Universiti Kebangsaan Malaysia. 25 February 2021.
10. 2nd National Seminar on Optimization and Data Sciences 2020. Universiti Putra Malaysia. 26 – 27 September 2020.
11. Seminar Kebangsaan Institut Statistik Malaysia ke-14. Universiti Malaya. 25 February 2020.
12. Simposium Kebangsaan Sains Matematik ke-27. Universiti Putra Malaysia. 26 – 27 November 2019.
13. International Fundamental Science Congress iFSC 2019. Universiti Putra Malaysia. 30 – 31 October 2019.
14. 62nd ISI World Statistics Congress. Department of Statistics Malaysia. 18 – 23 August 2019.

PUBLICATIONS

1. Ali Mohammed Baba, Habshah Midi, **Nur Haizum Abd Rahman** (2022). Spatial Outlier Accommodation Using a Spatial Variance Shift Outlier Model. *Mathematics*. 10(17). Journal Ranking in JCR: Q1.
2. Cho Kar Mun, **Nur Haizum Abd Rahman**, Iszuanie Syafidza Che Ilias. (2022). Performance of Levenberg-Marquardt Neural Network Algorithm in Air Quality Forecasting. *Sains Malaysiana*. 51(8). Journal Ranking in JCR: Q4.
3. Alharbi Nada Mohammed Saeed, Jayanthi Arasan, **Nur Haizum Abd Rahman**, Wendy Ling Shin Yie. (2022). Assessing Performance of the Generalized Exponential Model in the Presence of the Interval Censored Data with Covariate. *Austrian Journal of Statistics*. 51(1). 52-69. Scopus.
4. Norazua Anishah Mohamad Noor, **Nur Haizum Abd Rahman**. (2022). Exponential smoothing constant determination to minimize the forecast error. *Mathematical Modeling and Computing*. 9(1). 50-26. Scopus.
5. Puteri Aiman Syahirah Rosman, **Nur Haizum Abd Rahman** (2022) Model Identification and Derivation for Double Seasonal Integrated Moving Average (DSARIMA) Model. *Proceedings of the International Conference on Mathematical Sciences and Statistics 2022 (ICMSS 2022)*.
6. Muhammad Rezal Kamel Arifn, Kathiresan Gopal, Isthinayagy Krishnarajah, Iszuanie Syafidza Che Ilias, Mohd Bakri Adam, Jayanthi Arasan, **Nur Haizum Abd Rahman**, Nur Sumirah Mohd Dom, Noraishah Mohammad Sham. (2021). Mathematical Epidemiologic and Simulation Modelling of First Wave COVID-19 in Malaysia. *Scientific Reports*. 11(1). Journal Ranking in JCR: Q1.
7. Ali Mohammed Baba, Habshah Midi, Mohd Bakri Adam, **Nur Haizum Abd Rahman**. (2021). Detection of Influential Observations in Spatial Regression Model Based on Outliers and Bad Leverage Classification. *Symmetry*. 13(11). Journal Ranking in JCR: Q2.
8. Alharbi Nada Mohammed Saeed, Jayanthi Arasan, **Nur Haizum Abd Rahman**, Wendy Ling Shin Yie. (2021). Inference for the Generalized Exponential Distributions with Covariate and Right-Censored Data. *Malaysian Journal of Mathematical Sciences*. 2021, 15(3), pp. 411–423. Scopus.
9. Ali Mohammed Baba, Habshah Midi, **Nur Haizum Abd Rahman**. (2021). A Spatial Outlier Detection Method for Big Data Based On Adjacency Weighted Residuals and Its Application to COVID-19 Data. *Economic Computation and Economic Cybernetics Studies and Research*. 55(3), pp. 87–102.
10. Fatin Zafirah Zamri, **Nur Haizum Abd Rahman**, Hani Syahida Zulkafli. (2021). Forecasting and Evaluation of Time Series with Multiple Seasonal Component. *Menemui Matematik (Discovering Mathematics)*. 43(1). 21-26. MyCite.
11. Fatin Syazwani Nazri, Hani Syahida Zulkafli, **Nur Haizum Abd Rahman**. (2021). Bayesian Estimation of Two-Parameters Rayleigh-Logarithmic Using Lindley Approximation. *Menemui Matematik (Discovering Mathematics)*. 43(1). 61-67. MyCite.
12. Nur Arina Bazilah Kamisan, Muhammad Hisyam Lee, Siti Fatimah Hassan, Siti Mariam Norrulashikin, Maria Elena Nor, **Nur Haizum Abd Rahman**. (2021). Forecasting Wind Speed Data by Using a Combination of ARIMA Model with Single Exponential Smoothing. *Mathematical Modelling of Engineering Problems*. 8(2). 207-212. Scopus.
13. Zawin Najah Hamdan, **Nur Haizum Abd Rahman**, Siti Nur Iqmal Ibrahim. (2020). The Accuracy of Jump-Diffusion Model and Regression Analysis for Prediction of Malaysian Centrifuged Latex Prices. *Advances in Mathematics: Scientific Journal* 9, no. 12, 10855–10867. DOI: <https://doi.org/10.37418/amsj.9.12.70>. Scopus.

14. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee. (2020). Artificial Neural Network Forecasting Performance with Missing Value Imputations. *International Journal of Artificial Intelligence*, 9(1). DOI: 10.11591/ijai.v9.i1. ISSN: 0974-0635. Scopus.
15. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee. (2020). Air Pollutant Index Calendar-Based Graphics for Visualizing Trends Profiling and Analysis. *Sains Malaysiana*, 49(1). DOI. ISSN: 0126-6039. 2018 JCR Impact Factor: 0.540. Journal Ranking in JCR: Q4.
16. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee. (2019). The Combination of Forecasts with Different Time Aggregation. *ASM Science Journal*. 12(5): 160-166. ISSN: 1823-6782. Scopus.
17. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee. (2019). A Combination Index Measurement in Forecasting Daily Air Pollutant Index. *AIP Conference Proceedings*. 2138(050025). DOI: 10.1063/1.5121130. ISSN: 0094243X. Scopus.
18. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee, Suhartono, Mohd Talib Latif. (2019). Hybrid seasonal ARIMA and artificial neural network in forecasting southeast Asia City Air Pollutant Index. *ASM Science Journal*. 12(1): 215-226. ISSN: 1823-6782. Scopus.
19. **Nur Haizum Abd Rahman**, Nur Nabilah Jamal, Nur Hidayah Abd Rahman. (2019). Modeling and Forecasting: A Case Study of Tourist Arrivals in Malaysia. *ILTC 2019 E-Proceedings (Toursim)*. ISBN: 978-967-467-015-3.
20. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee, Suhartono, Mohd Talib Latif. (2016). Evaluation Performance of Time Series Approach for Forecasting Air Pollution Index. *Sains Malaysiana*, 45(11):1625-1633. DOI. ISSN: 0126-6039. 2014 JCR Impact Factor: 0.446. Journal Ranking in JCR: Q3.
21. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee, Suhartono, Mohd Talib Latif. (2015). Artificial Neural Networks and Fuzzy Time Series Forecasting: An Application to Air Quality. *Quality & Quantity*, 49(6): 2633-2647. DOI: <http://10.1007/s11135-014-0132-6>. ISSN: 0033-5177. 2014 JCR Impact Factor: 0.720. Journal Ranking in JCR: Q2.
22. **Nur Haizum Abd Rahman**, Muhammad Hisyam Lee, Mohd Talib Latif, Suhartono. (2013). Forecasting of Air Pollution Index with Artificial Neural Network. *Jurnal Teknologi (Science & Engineering)*, 63(2): 59-64. DOI 10.11113/jt.v63.1913. ISSN: 0127-9696. Scopus.
23. Muhammad Hisyam Lee, **Nur Haizum Abd Rahman**, Suhartono, Mohd Talib Latif Maria Elena Nor, Nur Arina Bazilah Kamisan. 2012. Seasonal ARIMA for Forecasting Air Pollution Index: A Case Study. *American Journal of Applied Sciences*, 9(4): 570-578. DOI: 10.3844/ajassp.2012.570.578. ISSN: 1546-9239. Scopus.
24. Muhammad Hisyam Lee, Maria Elena Nor, Suhartono, Hossein Javedani Sadaei, **Nur Haizum Abd Rahman**, Nur Arina Bazilah Kamisan. 2012. Fuzzy Time Series: An Application to Tourism Demand Forecasting. *American Journal of Applied Sciences*, 9(1): 132-140. DOI: 10.3844/ajassp.2012.132.140. ISSN: 1546-9239. Scopus.
25. Maria Elena, Muhammad Hisyam Lee, Suhartono, Hossein, **Nur Haizum** & Nur Arina Bazilah. (2012). Fuzzy Time Series and SARIMA Model for Forecasting Tourism Arrivals to Bali. *Jurnal Teknologi*, 57: 69-81. DOI: 10.11113/jt.v57.1524. ISSN: 0127-9696. Scopus.

RESEARCH GRANTS

1. (2022). Robust estimation of Weibull parameters with application to wind speed data for estimation of wind power in Malaysia. Geran Putra IPM. Grant No: 9714900. RM 30,000. 1 July 2022 – 30 Jun 2024. Member.
2. (2020). Modelling Pricing Framework for Some Exotic Options with Stochastic Processes Using Stochastic Calculus. FRGS2020-1. RM61,000. November 2020 –October 2022. Member.
3. (2019). Handling Outliers and Heteroscedasticity in Big Panel Data using Robust Statistical Method for Efficient Prediction. FRGS2019-1. RM94,000. September 2019 – August 2021. Member.
4. (2019). Adaptive Turning Point Error for Artificial Neural Network Forecasting on Bursa Malaysia Stock Market. FRGS2019-1. RM57,265. September 2019 – August 2021. Member.
5. (2017). Multiple Seasonal Autoregressive Model for Air Pollutant Forecasting. Geran Putra IPM. Grant No: 9587700. RM 39,500. 15 Dec 2017 – 15 Dec 2019. **Principle Investigator**. Completed.

TEACHING

2022/2023-2 Data Science with Applications (STS3404), Time Series (MTH4406)
2022/2023-1 Probability and Statistics II (STS3402)
2021/2022-2 Probability and Statistics I (STS3401), Time Series (MTH4406)
2021/2022-1 Statistics for Applied Sciences (MTH3003), Probability and Statistics II (MTH3402), Time Series Analysis (MTH5416)
2020/2021-2 Probability and Statistics I (MTH3401), Time Series (MTH4406)
2019/2020-2 Statistics for Applied Sciences (MTH3003), Time Series (MTH4406)
2019/2020-1 Statistics for Applied Sciences (MTH3003), Linear Model (MTH3404), Time Series Analysis (MTH5416)
2018/2019-2 Statistics for Applied Sciences (MTH3003), Time Series (MTH4406)
2018/2019-1 Statistics for Applied Sciences (MTH3003), Research Process in Mathematics and Statistics (MTH3901)
2017/2018-2 Statistics for Applied Sciences (MTH3003), Time Series (MTH4406)
2017/2018-1 Statistics for Applied Sciences (MTH3003)

EXAMINER

1. 2023. Romdhini Mamika Ujianita (GS57042). PhD. Examiner Deputy Chairman.
 2. 2022. Al Hakeem Hussein Ali Ghaffoori (GS54775). PhD. Examiner Deputy Chairman.
 3. 2022. Nasuhar binti Ab Aziz (GS41268). PhD. Examiner Deputy Chairman.
 4. 2022. Afif bin Shihabuddin (GS46839). Master. Examiner Deputy Chairman.
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SUPERVISION

Doctor of Philosophy

1. Puteri Aiman Syahirah binti Rosman (2023-Present). **Supervisor.**
2. Abubakar Mustafa Babagana (2021-Present). **Co-supervisor.**
3. Alharbi Nada Mohammedsaeed (2018 – Present). **Co-supervisor.**
4. Mohammed Baba Ali (2018 – Completed 2022). **Co-supervisor.**
5. Sharmin Afsana Al (2020 – Present). **Co-supervisor.**

Master Coursework

1. Puteri Aiman Syahirah binti Rosman (Completed 2021). Model Building Strategy for Forecasting Double Seasonal Components. **Supervisor.**
2. Revathy Ganesan (Completed 2022). The Effects of Imputing Incomplete Data on Non-Stationary Seasonal Component Forecasts. **Supervisor.**

Bachelor

Present

1. Nurul Nabihah Teh binti Muhammad Adam Teh (205827).
2. Syahira Izazi binti Azhar (208351).
3. Muhamad Syahin Naim bin Alias (208200).

4. Muhammad Nur Arif bin Saari (206581).
5. Ang Zi Yi (207278).
6. Kelly Pang Li Xiang (205851).
7. Atheerah Husna Binti Mohd Ruzaimi (207740).
8. Go Aai Leng (205425).

Completed 2023

9. Lee Jia Yu (202974). Activation Functions Evaluation of Nonlinear Autoregressive Neural Network for Forecasting COVID-19 Cases in Different Countries. 2023.
10. Quay Pin Yin (202975). Hyperparameter Tuning of Unidirectional and Bidirectional LSTM Model in Time Series Forecasting. 2023.
11. Goh Hui Jia (202437). GARCH Models Comparison for Nonlinear Time Series with Volatilities. 2023.
12. Muhammad Muzhaffar Syah bin Azmi (202972). Seasonal Arima Model in Forecasting Daily and Weekly Air Quality in Selangor. 2023.
13. Nur Maisara binti Mohamed (201112). Generalized Space Time Autoregressive (GSTAR) for Spatial-Temporal Air Pollutant Index Data Forecasting in Selangor. 2023.
14. Hamizan bin Hasnan (200719). The Comparison of Spatial Weight in Generalized Spatio-Temporal Autoregressive Analysis for Dengue Cases in Malaysia. 2023.
15. Syarah Izzah binti Sa'adon (199153). Prediction Of COVID-19 Mortality Rate using Autoregressive Moving Average with Exogenous Model (ARIMAX). 2023.

Completed 2022

16. Chin Hui Yin (197511). Activation Functions in Neural Network for Time Series Forecasting. 2022.
17. Saidatul Nurfarahin binti Muhamad Yusof (197088). Spatio-Temporal Analysis of Covid-19 Spread in Selangor. 2022.
18. Nur Husnina binti Mohd Hattar (196537). Double Seasonal Exponential Smoothing for Electricity Load Demand Forecasting. 2022
19. Fatin Sahira binti Mohd Hariff (198884). Forecasting Covid-19 Cases in Districts of Kelantan using Spatial Analysis Method. 2022.

Completed 2021

20. Amy Amanda Lang Pooi Mun (192485). Learning Activation Functions Through Combinations. 2021.
21. Nur Haiyani binti Shahimi (192673). A Hybrid Model Between Linear and Nonlinear Method to Improve Forecast Accuracy. 2021.
22. Wan Nur Atiqah binti Wan Mohd Mazni (193977). Forecast of Double Seasonal Arima Model: Multiple and Additive. 2021.
23. Nabilah Aida binti Mat Nor Azmay (192755). Forecasting Time Series Sampled with Forecast Combination. 2021.

Completed 2020

24. Norazua Anishah binti Mohamad Noor (188260). Optimal Values Exponential Smoothing Constant Determination to Minimize Forecast Errors. 2020.
25. Atikah Natasya binti Ouyop (188256). The Initial Value Techniques Efficiency in Holt-Winters Exponential Smoothing Method. 2020.
26. Fatin Zafirah binti Zamri (189459). Multiple Seasonal ARIMA and Single Seasonal ARIMA Forecast Performance in Air Quality Forecasting. 2020.

Completed 2019

27. Cho Kar Mun (188769). Algorithms in Neural Network with One Step and Multi-Step Ahead Forecast.2020.
28. Nur Nabilah binti Jamal (182817). Modelling and Forecasting using Box-Jenkis Method: A Case Study of Malaysian Tourism. 2019.

29. Siti Nur Farzana binti Rohaizad (183468). Forecasting the Crude Palm Oil Production in Malaysia by using Seasonal Autoregressive Integrated Moving Average (SARIMA) Model. 2019.
30. Nur A'liya Nasuha binti Mohd Shafi (182652). Analysis of PM10 in Industrial Area using Extreme Value Approach. 2019.

Completed 2018

31. Safirah binti Sabaruddin (180711). Forecasting PM10 at Klang Valley using Subset and Multiplicative ARIMA Model. 2018.
32. Neena Aishath (181226). Exponential Smoothing for Forecasting Daily Average PM10 Concentration Data in Industrial Zone. 2018.
33. Nurul Kamila Natasha binti Mat Puat (177192). Evaluating Time Series Model to Forecast the PM10 Concentration in Sub-urban Area. 2018.

REVIEWER: JOURNAL ARTICLE / CONFERENCE PROCEEDING

1. (2023). Scientific Reports.
2. (2023). Malaysian Journal of Fundamental and Applied Sciences (MJFAS).
3. (2022). Malaysia Statistics Conference (MyStats) 9th Edition.
4. (2022). Economic and Technology Management Review.
5. (2022). The 4th International Conference on Mathematical and Statistical Sciences.
6. (2021). Sains Malaysiana.
7. (2020). Advances in Mathematics: Scientific Journal.
8. (2020). Sains Malaysiana.
9. (2020). Simposium Kebangsaan Sains Matematik ke 27.
10. (2019). Sains Malaysiana.
11. (2019). Malaysian Journal of Mathematical Sciences
12. (2019). Simposium Kebangsaan Sains Matematik ke 26.
13. (2019). The 4th International Conference on Computing, Mathematics and Statistics 2019.
14. (2019): International Quantitative Research and Applications Conference 2018.
15. (2018). Malaysian Journal of Industrial and Applied Mathematics (MATEMATIKA).
16. (2018). International Journal of Economics and Management.
17. (2017-2018). 3rd International Conference on Mathematical Sciences and Statistics.

AWARDS

1. Anugerah Perkhidmatan Cemerlang Tahun 2022. Universiti Putra Malaysia.
2. Sijil Perkhidmatan Cemerlang Tahun 2021. Universiti Putra Malaysia.
3. Silver Medal Poster for the 4th International Conference on Mathematical Sciences and Statistics (ICMSS2022).
4. Best Presenter Award 3rd Virtual Symposium on Multidisciplinary Science 2021.
5. Sijil Perkhidmatan Cemerlang Tahun 2020. Universiti Putra Malaysia.
6. Sijil Perkhidmatan Cemerlang Tahun 2019. Universiti Putra Malaysia.
7. Best Paper Award for the International Conference on Advances in Engineering, Computing and Applied Sciences (RAECAS2019).
8. Bronze Medal for the Ipoh International Summit on Professionalism, Research and Education (INSPIRED2019).

RESOURCE PERSON ON SHORT COURSES OR TRAINING

1. Centre of Foundation Studies for Agricultural Science. 2022-2024. Advisor in Mathematics (Statistics).
 2. Program Bicara Penyelidikan: Permodelan Matematik Menggunakan Kaedah ARIMA. 2022. Speaker.
 3. Malaysia Industrial Mathematical Modelling Challenge 2020 (MIMMC2020). 2020. Jury.
 4. Bengkel Atas Talian Daripada Tesis Kepada Buku. 2020. Penilai Buku.
-

CONSULTATION AND INDUSTRY LINKAGES

1. Collaboration Between Cybersecurity Malaysia (CSM) – Institute for Mathematical Research (INSPEM), UPM: Security and Awareness Program. 2022-2023. RM 56680. Consultant. Member.
-

COMMITTEE MEMBER

1. 1st Mathematical Sciences and Statistics Seminar (MS³ 2023). 2023. Committee Member.
 2. Jawatankuasa Kurikulum Master Statistik Gunaan. 2022 – 2023. Committee Member.
 3. Jawatankuasa Kurikulum Program Akademik Prasiswazah Statistik. 2022 – 2023. Committee Member.
 4. 4th International Conference on Mathematical Sciences and Statistics (ICMSS2022). 2022. Secretary.
 5. Seminar Kebangsaan dan Mesyuarat Agong Institut Statistik Malaysia. 2022. Committee Member.
 6. Jawatankuasa Semakan Fail Kursus, Fakulti Sains. 2021 – 2023. Committee Member.
 7. Jawatankuasa Kurikulum Master Statistik Gunaan. 2021 – 2022. Committee Member
 8. Jawatankuasa Kurikulum Program Akademik Prasiswazah Statistik. 2020 – 2022. Committee Member.
 9. Seminar Kebangsaan Institut Statistik Malaysia (ISM)-Memperkasa Aplikasi Statistik Dalam Industri dan Masyarakat dan Mesyuarat Agong ISM. 2018. Secretary.
 10. Simposium Sains Matematik PERSAMA-UPM ke 27. 2018. Committee Member.
 11. 3rd International Conference on Mathematical Sciences and Statistics (ICMSS2018). 2018. Committee Member.
-

COMMUNITY SERVICE

1. Program Let's Algebraize 2.0. Facilitator.
 2. IDM Statistic Challenge 2023. Facilitator.
 3. Pengukuhan Pengajaran dan Pembelajaran Matematik di Sekolah. 2019. Emcee.
 4. Putra Math Circle: Exploring Mathematics 2019. Facilitator.
 5. Kem Matematik INSPEM 2018 bersama Sekolah Menengah Sains Raja Tun Azlan Shah (SERATAS). 2018. Facilitator.
 6. Nobel Laureate's Outreach Camp-Scientist of Tomorrow. 2018. Facilitator.
 7. Program MATHATHON. 2017. Facilitator.
 8. Program Pengukuhan dan Peningkatan Minat Matematik di Kalangan Pelajar Sekolah Menengah Luar Bandar di Negeri Selangor. 2017. Facilitator.
-

COURSES & TRAINING

1. Kajian Rintis Untuk Kaedah Tinjauan. Boffin Event Management. 21 March 2023.
2. Work Smarter with Excel. Universiti Tun Hussein Onn. 8 March 2023.
3. Short Course MyStats 2022. Department of Statistics Malaysia. 4 October 2022.
4. Data Visualization: Power BI for Beginners. Universiti Utara Malaysia. 10 November 2022.
5. Workshop on Data Discovery with Visualisation Tools. Universiti Teknologi Malaysia. 10 October 2021.
6. Programming With Python and Data Visualization. Universiti Malaysia Pahang. 2 – 3 October 2021.
7. Time Series Analysis. Universiti Sains Malaysia. 20 – 21 September 2021.
8. What is Data Science? Coursera IBM. July 2021.
9. Decoding the Predatory Journal Menace. Elsevier. 18 February 2020.
10. AISMM Lecture Series 5: Data Analytics with Applications. Malaysian Academy of Mathematical Scientist (AISMM). 22 – 23 February 2020.
11. Bengkel Top Drawer Proposal. Universiti Putra Malaysia. 27 August 2019.
12. Short Course ISIWSC, High Dimensional Time Series Analysis. International Statistical Institute. 16 – 17 August 2019.
13. Workshop on Survival Analysis for Beginners. Universiti Putra Malaysia. 5 March 2019.
14. Workshop on Writing and Publishing High Impact Research Papers. Universiti Putra Malaysia. 19 July 2018.
15. Workshop on Survey Sampling & Questionnaire Design using SPSS. Universiti Putra Malaysia. 26 – 27 February 2018.
16. Kursus Asas Pengajaran. Universiti Putra Malaysia. 24 January – 1 February 2018.
17. Program Transformasi Minda. Universiti Putra Malaysia. 15 – 19 January 2018.