

# ASSOCIATE PROFESSOR DR. NORHAIZA AHMAD

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Universiti Teknologi Malaysia,  
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## EDUCATION

- 2008 *Ph.D. in Statistics:*  
**University of Kent, United Kingdom.**  
**Specialization:** *Bioinformatics*  
**Theses:** *Statistical Profiling of Proteomics Data*  
**Theses Advisers:** **Professor Jian Zhang/Professor P.J.Brown**
- 2003 *M.Sc. in Statistics,*  
**University of Sheffield, United Kingdom.**  
**Dissertation:** *Customer Profiling for the Employment Service*  
**Dissertation Adviser:** **Dr. Eleanor Stillman**
- 1993-1996 *B.Sc. (HONS) in Mathematics, Statistics & Operational Research,*  
**University of Manchester, Institute of Science & Technology (UMIST),UK**
- 1992 *A-Levels in Economics, Mathematics and Statistics,*  
**Centre of Preparatory Studies, Institute Technology Mara, Malaysia (ITM).**

## PERSONAL

- **D.O.B:** 27 July 1973; **Nationality:** Malaysian; **Language:** Bahasa Malaysia, English.

## ACADEMIC APPOINTMENTS

**Senior Lecturer**, Universiti Teknologi Malaysia (March 2010-Present)  
**Lecturer**, Universiti Teknologi Malaysia (2004-March 2010)  
**Tutor**, Universiti Teknologi Malaysia (2000-2003)

## OTHER EMPLOYMENTS

- 2003-2006 **Tutor**, Institute of Mathematics, Statistics & Actuarial Science, University of Kent, UK.
  - Marked tutorial sheets for various students' assignments
  - Assisted lecturers at tutorial and computer classes in Statistics for 1<sup>st</sup> year students.
- April 2003 **Statistical Data Analyst**, University of Kent, UK.
  - Commissioned by University of Kent's Hospitality to analyze students satisfaction survey.
- 2000-2003 **Tutor**, Department of Mathematics, Faculty of Science, University Teknologi Malaysia.
  - Responsible for handling tutorial classes in Statistics and Mathematics (foundation course and 1<sup>st</sup> year students).
  - Involved in preparing tutorial materials when they are not available.
- 1996 - July 2000 **Production Planner/Controller: Automotive Plant**, Toyota & Koyo Seiko Autoparts, Sdn Bhd, Shah Alam, Malaysia.
  - Responsible for the production planning of the plant's annual, monthly and daily production.
  - Inventory control and monitoring stocks availability everytime.
- Summer 1995 **Internship** at the Department of Mathematics, Universiti Teknologi Malaysia, under the supervision of Dr. Zuhaimy Ismail.

## RESEARCH GRANTS-(PRINCIPAL INVESTIGATOR)

No	Start/End Date	Duration (years)	Grant Name	Ref 1	Ref 2	Title
1	2020 Jan 1 - 2022 Dec 31 (ext. 30 Jun 2023)	3	UTMFR	PY/ 2019/ 02100		<i>Ridge-Based Biclustering Model In Profiling Collinear Expression Data For Infectious Diseases Studies</i>
2	2019 Nov 1- 2021 Oct 31(ext. 30 Apr 2022)	2	UTMER	PY/ 2019/ 01402	Q.J130000.2654.1 8J17	<i>Prediction Of Discharge After Period Of River Disruptions Using Robust Least Squares Support Vector Regression</i>
3	2019 Nov 1- 2021 Oct 31 (ext. 30 Oct 2022)	2	CRG NATIONAL	PY/ 2019/ 03315	R.J130000.7354.4 B497	<i>CRG 28.3: Comprehensive Statistical Testing and Evaluation for Artefact Modelling</i>
4	1 Oct 2016- 31 Dec 2017	2	GUP	PY/ 2016/ 07502	Q.J130000.2626.1 2J69	<i>Time-Based Clustering on Homogeneous Riverflow Process.</i>
5	1 Jul 2014- 30 June 2015 (ext. Sept 15)	2	GUP Tier 1	PY/ 2014/ 01923	Q.J130000.2526.0 9H04	<i>Time-Dependent Interval Data In The Classification Of Rainfall Patterns</i>
6	1 Apr 2011- 31 Mac 2012 (ext. 30 Sept 12)	2	GUP Tier 2	PY/ 2011/ 00830	Q.J130000.2626.0 4J09	Clustering Based Classification on Daily Rainfall Pattern.
7	15 Nov 2009- 14 Nov 2011 (ext. May2012)	3	FRGS	PY/ 2009/ 00305		Visualizing proximity data using pseudo-distance in Multidimensional scaling technique.

## RESEARCH GRANTS-SELECTED LIST (MEMBER INVESTIGATOR)

No.	Start/End Date	Grant Name	Ref	Title	Principal
1	1 Nov19- 31 Oct 21	CRG NATIONAL	PY/2020/03444	CRG28.4 Development Of Gis Database For Data Management Of Archaeological Artefacts	Zulkepli Majid
2	1 Nov19- 31 Oct 21	CRG NATIONAL	PY/2020/03373	CRG 28.2 : Construction Of Mathematical Algorithms For Artefact Modeling	Yeak Su Hoe
3	1 Nov19- 31 Oct 21	CRG NATIONAL	PY/2019/02810	CRG 28.1: Development Of Photo-Realistic 3d Model Of Archaeological Artefacts	Ali Hassan Mohamed Murid
4	1 Nov19- 31 Oct 21	CRG NATIONAL	PY/2019/02765	CRG 28.0: 3d Reconstruction Of Historical Fragments Using Advanced Mathematical Approach	Ali Hassan Mohamed Murid
5	1 Nov19- 31 Oct 21	UTMER	2019/02196	Survival Piecewise Baseline Hazard Function Incorporated With Cure Fraction And Frailty	Noraslinda
6	1 Nov19- 31 Oct 21	UTMER	2019/01278	Forecasting Johor Bahru Rainfall Using Autoregressive Integrated Moving Average (Arima) And Artificial Neural Network (Ann)	Norazlina
7	1 Aug19- 31 Jul 21	GUP T2	2019/00625	Medicine Usage Modelling Using Modified INGARCH-GLM Framework	Siti Mariam
8	Oct 2016 Sept 2017	GUP.T2	2016/07623	Trend analysis of streamflow, rainfall and temperature in Johor	Norazlina Ismail
9	May 2016- April 2017	PPRN	2015/04377	Quality Control for Bull Semen	Zainal Abdul Aziz
10	Apr 2013- March 2015	FRGS		Spatio-Temporal Modeling of Rainfall Using Generalized Additive Model	RM61,000
11	Apr 2013- March 2014	FRGS		Bayesian Survival Mixture Models In The Existence of Covariates Using Frailty Models	RM28,000

## ACADEMIC PUBLICATIONS

1. Grouping river flow patterns based on nonlinear features of short time series data. Nur Syazwin Mansor, **Norhaiza Ahmad**, AIP Conference Proceedings 8 February 2023; 2500 (1): 020030. <https://doi.org/10.1063/5.0111090>
2. Statistical Modeling of RPCA-FCM in Spatiotemporal Rainfall Patterns Recognition. Che Mat Nor, S.M.; Shaharudin, S.M.; Ismail, S.; Mohd Najib, S.A.; Tan, M.L.; **Ahmad, N.** Atmosphere (2022), 13, 145. <https://doi.org/10.3390/atmos13010145>
3. Logistic Regression Analysis on Factors Affecting Disability of Trauma Patients . Nuraina Aqilah and **Norhaiza Ahmad**. (2022) Proc. Sci. Math. 11:63-71. eISSN 2756-8857.
4. Long-Term Dependent Analysis on Covid-19 Vaccination Using Log-Linear Poisson Autoregressive Model . Maryam Adibah Hanim Mohd Hazni and **Norhaiza Ahmad**. (2022) Proc. Sci. Math. 9:157-174. eISSN 2756-8857.
5. Logistic Regression Analysis on Factors Affecting Mortality of Trauma Patients . Ayu Nur Athirah Mohd Jamri and **Norhaiza Ahmad**. (2022) Proc. Sci. Math. 10:42-50. eISSN 2756-8857.
6. Classification of Food Composition Using Agglomerative Hierarchical Clustering Method . Amirul Akram Ab. Aziz and **Norhaiza Ahmad**. (2021) Proc. Sci. Math. 10:21-28. eISSN 2756-8857.
7. Forecasting Consumer Price Index using Singular Spectrum Analysis. Venessa Tay Sin Yi and **Norhaiza Ahmad**. (2021). Proc. Sci. Math. 3:181-191. eISSN 2756-8857.
8. Log-Linear Poisson Autoregressive Model in Modelling Confirmed Cases of Coronavirus Disease in Malaysia. Yee Wei Jet and **Norhaiza Ahmad**. (2021). Proc. Sci. Math. 3:203-213. eISSN 2756-8857.
9. Longitudinal Tracking of Students' Academic Progress using Model-based Clustering. Norliza Adnan, **Norhaiza Ahmad**., (2020) International Journal of Psychosocial Rehabilitation. Volume 24 (5). 497-505. ISSN:1475-7192. DOI: 10.37200/IJPR/V24I5/PR201714.
10. Fitting statistical distribution of extreme rainfall data for the purpose of simulation. Shaharudin, S.M., **Ahmad, N.**, Mohamed, N.S, Mahdin, H.(2020). Indonesian Journal of Electrical Engineering and Computer Science. Volume 18, Issue 3, 2020, Pages 1367-1374. ISSN: 25024752. DOI: 10.11591/ijeecs.v18.i3.pp1367-1374. Institute of Advanced Engineering and Science. (SCOPUS)
11. Assessing Dynamic-Time-Warping Dissimilarity Measures in Regionalization of River Discharges. Nur Syazwin Mansor, **Norhaiza Ahmad\***, Arien Heryansyah. (2019). Malaysian Journal of Science. Special Issue 2: 14-22 DOI: <https://doi.org/10.22452/mjs.sp2019no2.2> (SCOPUS)
12. An Efficient Method To Improve The Clustering Performance Using Hybrid Robust Principal Component Analysis-Spectral Biclustering In Rainfall Patterns Identification. Shazlyn Milleana Shaharudin, Shuhaida Ismail, Siti Mariana Che Mat Nor, **Norhaiza Ahmad**. (2019). AES International Journal of Artificial Intelligence (IJ-AI). Vol. 8, No. 3, September 2019, pp. 237~243. ISSN: 2252-8938, DOI: 10.11591/ijai.v8.i3.pp237-243. (SCOPUS)
13. Modified singular spectrum analysis in identifying rainfall trend over peninsular Malaysia. S.M. Shaharudin, **N. Ahmad**, N.H. Zainuddin (2019) Indonesian Journal of Electrical Engineering and Computer Science. Vol 15; pp283-293. DOI: 10.11591/IJEECS.V15.I1.PP283-293 (SCOPUS)
14. Performance of Time-based and Non-time-based Clustering in the Identification of River Discharge Patterns, Nur Syazwin Mansor, **Norhaiza Ahmad**, Arien Heryansyah , (2018), in (ed.) Improving Flood Management, Prediction and Monitoring (Community, Environment and Disaster Risk Management, Volume 20) Emerald Publishing Limited, pp.133 – 140 (SCOPUS)
15. Identification of Rainfall Patterns on Hydrological Simulation Using Robust Principal Component Analysis. S.M. Shaharudin, **N. Ahmad**, N.H. Zainuddin, N.S. Mohamed (2018). Indonesian Journal of Electrical and Computer Science. Vol. 11. No.3. <http://www.iaescore.com/journals/index.php/IJEECS/issue/view/464> (SCOPUS)
16. Comparative Performance Of Support Vector Regressions For Accurate Streamflow Predictions. Noraini Ibrahim, **Norhaiza Ahmad** . Malaysian Journal of Fundamental and Applied Sciences. Special Issue on Some Advances in Industrial and Applied Mathematics (2017) 325-330. issn:2289-5981(WOS)
17. Spatial grouping of homogeneous river flow process in Johor. Nur Syazwin Mansor, **Norhaiza Ahmad** (2017). Malaysian Journal of Fundamental and Applied Sciences. Special Issue on Some Advances in Industrial and Applied Mathematics (2017) 405-407. issn:2289-5981(WOS)
18. Choice of Cumulative Percentage in Principal Component Analysis for Regionalization of Peninsular Malaysia Based on the Rainfall Amount. Shaharudin S.M., **Ahmad N.** (2017) Modeling, Design and Simulation of Systems. AsiaSim 2017. Communications in Computer and Information Science, vol 752. pp216-224 (2017), Springer, Singapore; doi: [https://doi.org/10.1007/978-981-10-6502-6\\_19](https://doi.org/10.1007/978-981-10-6502-6_19); isbn: 978-981-10-6501-9. (SCOPUS)
19. Short-term variability of Johor River discharge based on wavelet analysis. **N. Ahmad**, S. A. Kamaruddin, and A. Heryansyah. AIP Conference Proceedings 1643, 278 (2015); doi: 10.1063/1.4907456 (SCOPUS)
20. Effect of window length with singular spectrum analysis in extracting the trend signal on rainfall data. Shazlyn Milleana Shaharudin, **Norhaiza Ahmad** and Fadhilah Yusof. AIP Conference Proceedings 1643, 321 (2015); doi: 10.1063/1.4907462 (SCOPUS)
21. Improved Cluster Partition of Rainfall Patterns in PCA Guided Clustering, S M Shaharudin, **N Ahmad**, 3<sup>rd</sup> Comprehensive Symposium Proceeding, Risk based Asian Oriented, Integrated Water Management (2014).
22. Improved Cluster Partition in Principal Component Analysis Guided Clustering. S M Shaharudin, **N Ahmad** and F Yusof. *International Journal of Computer Applications* 75(11): 22-25, (August 2013). Published by Foundation of Computer Science, New York, USA.
23. 3-Point Pseudo-Scale Distance Measure for Measuring Indirect Proximity. Norliza Adnan, **Norhaiza Ahmad** and Maizah Hura Ahmad. Applied Mathematical Sciences, Vol. 7, (2013), no. 25, 1239 – 1247.
24. The Comparison of T-Mode and Pearson Correlation Matrices in Classification of Daily Rainfall Patterns in Peninsular Malaysia. Shazlyn Milleana Shaharudin, **Norhaiza Ahmad**, Fadhilah Yusof and XenQuan Yap. MATEMATIKA. Volume 29, Number 1c (June 2013) - Special Issue.
25. 3-Point pseudo-scale distance measure for measuring indirect proximity. Adnan N., **Ahmad N.**, Ahmad M.H (2013). Applied Mathematical Sciences 7(25-28),pp1239-1247. (SCOPUS)
26. Classification of Daily Rainfall Patterns in Peninsular Malaysia during Southwest Monsoon. Shazlyn Milleana Shaharudin, **Norhaiza Ahmad**, Fadhilah Yusof. Conference Proceeding.' The 1st ISM International Statistical Conference. (2012).
27. Measuring one-to-many relationships using Pseudo-Distance in Multidimensional Scaling Techniques. Norliza Adnan, **Norhaiza Ahmad**, Maizah Hura Ahmad. Conference Proceeding.' The 1st ISM International Statistical Conference (2012).
28. Indirect Proximity Measures Using Pseudo-Distance in Multidimensional Scaling Techniques. Norliza Adnan, **Norhaiza Ahmad**, Maizah Hura Ahmad. Conference Proceeding ."Simposium Kebangsaan Sains dan Matematik ke 19 (SKSM19) (2011).

29. On the statistical analysis of the GS-NS0 cell proteome: Imputation, clustering and variability testing, **N Ahmad**, J Zhang, P J. Brown, D C. James, J R. Birch, A J. Racher, C. M Smales, *Biochim Biophys Acta*. (2006 Jul) ;1764 (7):1179-87 16807148 2
30. Proteomic Profiling of Statistically Significant Changes in Protein Expression in Murine Myeloma NSO Cells with Differing Antibody Productivities, **Norhaiza Ahmad**, Jian Zhang, Philip J. Brown, Elizabeth A. Sage, Daniel E. Alete, Diane M. Dinnis, Scott H. Stansfield, David C. James, John R. Birch, Andrew J. Racher and C. Mark Smales, Report UKC/IMS/04/16, IMS, University of Kent, UK., (2004). 3
31. Yusof, et al. (2009). *Basic Statistics for Science & Education*. Malaysia. Pearson (ISBN: 978-967-349-033-2). (contributed author: chapter: Analysis of variance).
32. Ph.D theses: *Statistical Profiling of Proteomics Data (2008)*
33. M.Sc theses: *Customer profiling for the Employment Service (2002)*: a short-scale research for the Department of Works and Pensions, Sheffield, UK.

### OTHER ACADEMIC PUBLICATIONS

1. Longitudinal Tracking Of Students Academic Progress Using Model Based Clustering (2019) 3rd International Conference On Educational Studies. (PROCEEDINGS)
2. Johor River Discharge Forecasting During Linggiu Reservoir Construction Period. (2018) Final Year Project Symposium 2018 (PROCEEDINGS)
3. Robust Clustering on Spatial Torrential Rainfall Patterns. Proceedings of the Third International Conference on Computing, Mathematics and Statistics (iCMS2017) (PROCEEDINGS)

### BOOK CHAPTERS/ BOOK PUBLICATIONS

1. Zarina Mohd Khalid, Norazlina Ismail, Noraslinda Mohamed Ismail, Norhaiza Ahmad et al (2019). *Statistics for Engineers*. UTM Press. (ISBN: 978-983-52-1523-0). UTM PRESS.
2. Noraslinda Mohamed Ismail, Zarina Mohd Khalid and Norhaiza Ahmad. (2014). Chapter: Proportional Hazards Model using Frequentist and Bayesian Approaches. *Statistical Modelling in Industrial and Applied Mathematics*, UTM Press. (ISBN 978-983-52-0991-8).
3. Norliza Adnan, Maizah Hura Ahmad and Norhaiza Ahmad. (2014). *Statistical Modeling In Industrial And Applied Mathematics*. (2014) (Chapter: Measuring Indirect Proximity Using Pseudo-Distance In Multidimensional Scaling Techniques/UTM PRESS)
4. Fadhilah Yusof, Zalina Mohd Daud, Maizah Hura Ahmad, Robiah Adnan, Zarina Mohd Khalid, Arifah Bahar & Norhaiza Ahmad (2009). *Basic Statistics for Sciences and Education*. Prentice Hall. (ISBN: 978-967-349-033-2).
5. Ph.D theses: *Statistical Profiling of Proteomics Data(2008)*
6. M.Sc theses: *Customer profiling for the Employment Service (2002)*: a short-scale research for the Department of Works and Pensions, Sheffield, UK.

### GRADUATE STUDENTS, PhD. :6 (Main), 2 (Co-SV)

1. Noraini Ibrahim (main adviser), *Robust Least-Squares Support Vector Regression For Improved River Flow Forecasting In The Presence Of Structural Break (main adviser) (Convocation 2023)*
2. Nur Syazwin Mansor (main adviser). *Time-Based Clustering for Homogeneous River Flow Pattern (main adviser) (Convocation 2023)*
3. Norbaiti Tukiman (main adviser). *Robust Predit Scoring Method For Classification Fraud Cases in Financial Data. (Convocation 2022)*
4. Noraslinda M. Ismail, (second adviser. main: Dr.Zarina M Khalid FS, UTM). **(Convocation 2019)**
5. Shazlyn Milleana Shaharudin **(2017)**. (main adviser. co-adviser: Dr.Fadhilah Yusof FS, UTM). *Spatial and Temporal Guided Clustering Based on Dimension Reduction. (Convocation April 2017)*
6. Zuraini Ali Shah, (second adviser. main:PM Dr.Puteh Saad FSKSM, UTM). *Combination of dimension reduction with modified robust estimation for gene-based cancer classification. (Convocation Oct 2012)*
7. Chibuike Nnamani, May 2015-Present. *Robust Plaid Model (main adviser)*
8. Norliza Adnan, Sept 2016-Present. *Model-Based Clustering in Educational Data Mining (main adviser)*

### GRADUATE STUDENTS, MSc. (DISSERTATION) : 5

1. *Danussha Pillai(2023-current): Forecasting Rock Blasting Fragmentation.*
2. *Izyan Diyanah Hashim, (Sept 2015-2017) . Variability of River Discharge and Runoff Volumes in Johor*
3. *Siti Aisya Kamaruddin, (Mac 2013- Dec2013). Temporal Flow Variability in Johor River Based on Wavelet Analysis.*
4. *Ho Sui Juih, (Mac 2012- Dec 2012). Comparison of Decision Tree Evaluation Methods in Assessing Students Performance.*
5. *Nurul Shuhada Faridam, (Dec 2009-Dec 2011) . Classification of Daily Rainfall Patterns in Peninsular Malaysia based on Rice Cultivation*
6. *Nurul Akmal Md Nasir, (Jan 2011-Dec 2011) . Statistical profiling of schools in Malaysia based on PMR result performances*

## UNDERGRADUATE STUDENTS, B.Sc. PROJECTS: 26

1. Logashni a/p Morthy. (2022-2023) Forecasting Consumer Price Index using Support Vector Regression
2. Nurin Amira Arezan bt Norizam (2022-2023). Characterising Stock Movement Using Wavelet Analysis
3. Muhammad Amin Mohd Rosli (2022-2023) Sentiment Analysis in Text Analysis
4. Iffah Ufairah Mohamed Noh (Sept 2021-). Analysis of Covid-19 Death Cases in Malaysia Using Log-Linear Autoregressive Model
5. Nuraina Aqilah Mohd Zaki (Sept 2021-2022) Logistic Regression Analysis on Factors Affecting Disability of Trauma Patients.
6. Ayu Nur Athirah Mohd Jamri (Sept 2021-2022). Logistic Regression on Factors Affecting Gender for Trauma Patients.
7. Maryam Abidah Hanim Mohd Hazni (Sept 2021-2022). Analysis Data on Covid-19 Vaccination Using Poisson Autoregressive Model
8. Amirul Akram Ab. Aziz (Sept 2020-2022). Classification of Food Composition Using Cluster Analysis
9. Yee Wei Jet (Sept 2020-2021) Modelling Confirmed Cases of Coronavirus Disease in Malaysia
10. Venessa Tay Sin Yi (Sep 2020- 2021) Forecasting Consumer Price Index Using Singular Spectrum Analysis.
11. Huda Wardiah Mohd Effandie (Sep 2019-2020). Measuring Change Detection in Medical Images
12. Farah Syahirah Mior Othman (Sept 2017-2018): Forecasting River Discharge Data using Support Vector Regression
13. NurAinaa Syaza Rushdan (Sept 2017-2018): Forecasting Rainfall Data using Support Vector Regression
14. Amirah Farzanah Sulaiman (Sept 2016-2017): Testing for Non-Linear Time Series Data
15. Armaeni Agus (Sept 2015-2016): Clustering in financial time series data. (*Special Program UTM-KENT*)
16. Nor Hidayah Hasan (2014-2015): Statistical Characteristics of River Discharge Runoff in Johor.
17. Norlyana Farahana Noor Azmi (2014-2015): Statistical Characteristics of Rivers in Johor.
18. Husna Nuraiin Hamidi, (2013-2014): Robust Linear Regression: a simulation study
19. Norlyana Farahana Noor Azmi (2014-2015): Statistical Characteristics of Rivers in Johor.
20. Nurul Izzaty Mohd Yunus, UTM (2011-2012): *Analysis of Sungai Galing Water Quality Data Through PCA.*
21. Noraini Ibrahim, UTM, (2010-2011): *Reduction Dimension in rainfall data via PCA*
22. Nurul Amira Zainal, UTM, (2009-2010): *Plaid model on Malaysian food composition.*
23. Tan Chee Yian, UTM, (2008-2009): *Application of logistic regression in anesthesia.*
24. Tan Fong Lin, UTM, (2008-2009): *Analyzing expressed proteins from GS-NSO Murine Myeloma cells.*
25. Noor Adila Aluwi Shakir, UTM, (2007-2008): *Effectiveness of pre-treatment drugs in reducing pain on injection via correspondence analysis.*
26. Chai Kuok Chiew, UTM, (2007-2008): *Investigating the effectiveness of pre-treatment drug Fentanyl on the injection of anesthetic drug, Propofol Lipuro using correspondence analysis.*

## EXAMINERS (Postgraduate Research)

### External:

- (1) MSc (University Utara Malaysia): Long Mei Mei (Feb 2016)
- (2) PhD (Universiti Utara Malaysia): Hashibah Hamid (June 2013)

### Internal:

- (1) PhD (Universiti Teknologi Malaysia): Ishaq Adeyanju Raji (Feb 2022)
- (2) PhD (Universiti Teknologi Malaysia): Mohd Zulariffin Md Maarof (Aug 2018).
- (3) MSc (Universiti Teknologi Malaysia): Nor Hidayah Ismail (Jul 2014)
- (4) PhD (Universiti Teknologi Malaysia): Aishah Mohd Noor (Nov 2013).

## INVITED ACADEMICS

- **Invited Speaker.** 5th ISM International Statistical Conference (ISM-V). Johor Bahru 17-19 Aug 2021.
- **Invited Speaker.** International Symposium on Advanced Statistical Data Analysis and Operational Research (iADORE2020). Johor Bahru 7-8 Dec 2020.
- **Discussant.** 62<sup>nd</sup> ISI World Statistics Congress (WSC) ISI2019 Kuala Lumpur, Malaysia. 18-23 Aug 2019.
- **Invited Speaker.** International Seminar on Mathematics in Industry 2017. Johor Bahru 1-2 Aug 2017.
- **Invited Speaker.** 61<sup>st</sup> ISI World Statistics Congress (WSC) ISI2017 Marrakech, Morocco. 16-21 July 2017.
- **Invited Speaker.** 10<sup>th</sup> Malaysian Institute of Statistics National Seminar (SKismX), Universiti Putra Malaysia. 18 Feb 2016.
- **Visiting Scientist.** Japan Society for the Promotion of Science (JSPS) Asian Core Program. Kyoto University. 18-22 November 2015.
- **Invited Speaker.** Seminar Kebangsaan Institute Statistik Malaysia ke-IX (ISM-IX, Universiti Kebangsaan Malaysia. 31 Mac 2015.



## TEACHING COURSES

UTM Full Time Courses	Level	UTMSPACE Part Time Courses	Level
1. Multivariate Statistical Analysis SSCM3123	BSc.	1. Engineering Statistics SSE2193	BSc.
2. Computer Literacy SSCM1303	BSc.	2. Statistics I SSE1113	BSc.
3. Engineering Statistics SSCE2193	BSc.	3. Kebarangkalian & Statistik DSM2703	BSc.
4. Statistics I SSE1113	BSc.	4. Multivariate Statistical Analysis SSCM3123	BSc.
5. Financial Mathematics SSH3863	BSc.		
6. Calculus I SSE1792	BSc.		
7. Generalized Linear Model MSM1453	MSc		

### MAIN INSTRUCTOR AT WORKSHOP

1. Workshop on Data Visualisation Tools: Webscraping and Data Visualization using R (2021)
2. Make Prediction With R (2019)
3. Getting Started With R (2018)
4. Getting Started With R (2017)

### INVITED SPEAKER AT WORKSHOP

1. Invited Speaker, "Make Data Speak" at Big Data Concepts, Theories and Applications Seminar, organised by the Advanced Integrated Development Plan, UTM (2017).
2. Invited Instructor. R for Data Analysis: an alternative to SPSS (2015). UiTM Pasir Gudang.

### ADMINISTRATIVE APPOINTMENTS (SELECTED)

- **Coordinator**, Faculty of Science Corporate Affairs Coordinator (2021-present)
- **Director**, Workshop on Data Discovery with Visualisation Tools (Aug-Oct 2021)
- **Co-Chair**, 5th ISM International Statistical Conference (ISM-V) (2021)
- **Director**, International Symposium on Advanced Statistical Data Analysis and Operational Research (iADORE2020) (Aug- Dec 2020)
- **Director**, Career Carnival at the Faculty of Science (Oct 2019-Mac2020)
- **Coordinator, UTM Committee member: Mentoring for Excellence (JKM4E) (Feb 2020-present)**
- **Double degree UTM-Kent Coordinator: (2019-present)**
- **Department Coordinator: Mathematics Computer Labs (2014-present)**
- To manage mathematics lab, its facilities and lab officers and technicians
- To plan and manage the procurement of lab equipments for mathematics computer labs.
- **WebMaster** - Department of Mathematical Sciences, Faculty of Science, UTM (2011-present)
- **WebMaster** - Faculty of Science, UTM (Nov 2013-2016)

**Transformation:** Applied three strategies to restructure and increase webometric points for Faculty of Science website: (1) changed web platform from Joomla to Wordpress so that faculty's website can be co-managed by the university's corporate division. (2) introduced a repository of thesis for online storage for thesis documents and increase the number of rich texts on the website (3) to ensure that all academic staff has individual websites so that each staff at the faculty has the opportunity to gain bonus points in their yearly assessment and to increase the number of pages on the website.

- **Chief Editor: Forum Matematik (2012- 2014)**

- Department of Mathematical Sciences, Faculty of Science, UTM
- To publish a fortnightly newsletter on news, developments, publications related to the department.

**Transformation:** Revamped the newsletter old layout to an updated layout. To initiate the department's whatsapp group so that information can be easily transmitted to Forum Matematik.

- **Faculty Coordinator: Young Excellent Scientists for Faculty of Science (2013)**

- To manage programs for excellent undergraduate students leading to academic research.

### AWARDS AND ACHIEVEMENTS

- Anugerah Cemerlang di Jabatan Sains Matematik UTM 2022 (Received 2023)
- Anugerah Cemerlang di Jabatan Sains Matematik UTM 2021 (Received 2022)
- Anugerah Perkhidmatan Cemerlang (APC) Tahun 2020 (Received 2021)
- Anugerah Cemerlang (Pembangunan Pelajar) Di Jabatan Sains Matematik UTM 2018 (Received 2019)
- Anugerah Khas Dekan 2017 (Received 2018)-
- *Award of Excellent, Active Blended Learning Course Semester 1 2018/2019*
- *Award of Excellent, Active Blended Learning Course Semester 2 2017/2018*
- *Award of Excellent, Active Blended Learning Course Semester 2 2015/2016*
- Anugerah Sumbangan Cemerlang Di Jabatan Sains Matematik UTM 2013 (Received 2014)
- Sijil Penghargaan Salah Seorang Pensyarah Paling Aktif Dalam Penggunaan e-Pembelajaran di UTM Semester 1 2013/2014
- Anugerah Citra Karisma UTM 2012
- Pencapaian cemerlang dalam perkhidmatan cuti belajar, Fakulti Sains UTM 2006 (Received 2008)
- Third year Mathematics, Statistics & Operational Research Course, Prize of the Institute for the session, UMIST 1995/1996.

### COPYRIGHT: 2

- Tropical Forest Tree Informatics. IP/CR/02113 (2021). Main inventor.
- Statistical Table for Engineering and Science Students. IP/CR/2018/0125 (2018). Co-Inventor.