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1. Associate Professor Ts. Dr.
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EDUCATION

1. PhD in Mathematical Sciences (October 2012 – March 2016),
Durham University, United Kingdom.
Thesis: Predictive Inference with Copulas for Bivariate Data.
2. MSc. Mathematics (Mathematics) (2005 - 2007)
Universiti Teknologi Malaysia, Skudai, Malaysia.
Dissertation: Censored Survival Analysis using Naive EM Algorithm.
3. BSc. (Hons.) (Statistics) (2002 - 2004)
Final Year Project: Multiple Regression Analysis
Universiti Teknologi Mara, Shah Alam, Selangor, Malaysia.
4. Diploma in Statistics (1999 – 2002)
Final Year Project: Employee Satisfaction for Telekom Malaysia
Universiti Teknologi Mara, Shah Alam, Selangor, Malaysia.

WORK EXPERIENCES

1. Associate Professor (November 2023-Current)
Centre for Mathematical Sciences
Universiti Malaysia Pahang Al-Sultan Abdullah
2. Director (Jan 2024-Mar 2025)
Data Management & Analytics Centre,

- Universiti Malaysia Pahang Al-Sultan Abdullah
3. Director (Apr 2022- Dec 2023)
Centre of Excellence for Artificial Intelligence & Data Science,
Universiti Malaysia Pahang Al-Sultan Abdullah
 4. Director (Sept 2021- Mar 2022)
Centre of Excellence for Data Science & Artificial Intelligence,
Universiti Malaysia Pahang Al-Sultan Abdullah
 5. Senior Lecturer (Sept 2019 – November 2023)
Centre for Mathematical Sciences
Universiti Malaysia Pahang Al-Sultan Abdullah
 6. Senior Lecturer (May 2016 – Sept 2019)
Faculty of Industrial Science & Technology
Universiti Malaysia Pahang Al-Sultan Abdullah
 7. Lecturer (Dec 2008 – May 2016)
Faculty of Industrial Sciences & Technology
Universiti Malaysia Pahang Al-Sultan Abdullah
 8. Lecturer (Aug 2007 – Dec 2008)
Faculty of Mechanical Engineering
Universiti Malaysia Pahang Al-Sultan Abdullah
 9. Teaching Assistant (TA) (Nov 2005 – Apr 2006)
Universiti Teknologi Malaysia, Skudai, Johor, Malaysia.
 10. Lecturer (Dec 2004 – Apr 2005)
Universiti Teknologi MARA, Machang, Kelantan, Malaysia

LIST OF RESEARCH

1. 2024 - Intervention Program for The Teachers and Students in Enhancing Students Performance in Mathematics Subject (Principal Investigator) (CDU240158)
2. 2024 - Spatial Omics and Machine Learning for Precision Oncology: A GIS-Based Approach (member) (RDU243504)
3. 2024 - Leveraging Transformer Models and GPT-4 for Enhanced Sentiment Analysis In Malaysia Halal Product Markets (member) (RDU242704 and UIC241505)
4. 2024 - Development of Smart Water Surge Warning System (member) (RDU240703)
5. 2023 - Predictive Modelling of Cardiovascular Diseases Considering Dependence Structure using Generalised Linear Model and Machine Learning (member) (RDU230376)
6. 2023 - Fishing Location Determination System (FSI) By IoT-Based Bathymetric Measurement by Drone Platform (member) (RDU233603)

7. 2023 - Parameterization of River Water Flow Using Images and Video-Based Techniques (member) (RDU230308-Active)
8. 2023 - Risksmart_Learning System's Training Module for Petrochemical Industries in Gebeng and Kemaman: A Collaboration with BASF and Kaneka Sdn. Bhd. (member) (CDU230133)
9. 2022 - Predictive Statistical Modelling on Enhancing Students' Performance Using Hybrid Artificial Neural Network and Structural Equation Modelling (Principal Investigator) (RDU223419- Active)
10. 2022 - Predicting Heart Disease Using A Hybrid Metaheuristic-Based Training Of Echo State Network (Principal Investigator) (RDU220395 and UIC221519 - Active)
11. 2022 - Interval Estimation of The Concentration Parameter and Missing Value Imputation in The Von Mises Distribution (member) (RDU220369-Active)
12. 2022 - Predictive Analytics of Influential Economic Indicators Towards Malaysian Ringgit Valuation by Using Regression Algorithm (member) (RDU220343-Active)
13. 2022 - Integrated Security Management System for KANEKA (member) (RDU222409 and UIC220829-Active)
14. 2022 - Stochastic Modelling of The Spreading Fake News and Information Through Online and Social Media (member) (RDU222704 and UIC221517 - Active)
15. 2022 - Formulation of A Robust Principal Component Analysis Algorithm in Machine Learning for Healthcare Application (member) (RDU222708 and UIC221521-Active)
16. 2022 - Stochastic Modelling of The Covid-19 Outbreak Under Non-Pharmaceutical Intervention (NPI) Enforcement (member) (RDU223008-Active)
17. 2021 - Formulation of Forecasting Model for Tourism Industry in Malaysia (member) (RDU210346 – Active)
18. 2021 - Development of A Predictive Algorithm for Heart Disease Using an Ensemble of Logit Model and Nearest Neighbour Tree Method Based on Smartwatch Data (member) (RDU210328 – Active)
19. 2021 - Kajian Semula Had Al-Kifayah Negeri Pahang 2021 (UIC210821 – Active)
20. 2019 - Formulation of Predictive Inference Modelling of Cardiac Markers to Diagnose Heart Function. (Principal Investigator) (RDU1901190 –FRGS active).
21. 2019 – Application of Statistical Classifiers in Modelling and Prediction of Cardiovascular Diseases (CVDs) using Newly Devising Score System. (Principal Investigator) (PGRS190350 – completed).
22. 2019 - Risk Based Inspection Gui (member) (UIC191004 – active).
23. 2019 - A Robust Model of Network Topology for Survival Analysis Considering Censored Data. (member) (RDU1903124 – active)
24. 2017 – Nonparametric Predictive Inference for Diagnostic Accuracy. (Principal Investigator) (RDU170359 – completed)

25. 2017 - Robustifying Hotelling T^2 Statistic for Monitoring the Stability of Currency Exchange Rate During Global Financial Crisis. (member) (RDU1703268 - completed)
26. 2016 – Nanoparametric Prediction Inference for Diagnostic Accuracy. (Principal Investigator) (RDU161118 - completed)
27. 2016 – Predictive Inference with Copulas for Bivariate Data (PhD Research)
28. 2009 - A Comparative Study on Box-Jenkins and GARCH Models in Forecasting Crude Oil Prices, (member), Vot RDU 090307.
29. 2008 - The Impact of Student's Behaviour Toward Mathematics on Their Performance in Mathematics Courses, (Leader- Siti Fatimah Ahmad Zabidi), Vot RDU 080106.
30. 2007 - Censored Survival Data Analysis using EM Algorithm, Master Dissertation.
31. 2004 - Multiple Regression Analysis, Final Year Project (Degree).

INVITED SPEAKER

- Invited Speakers, Simposium Kebangsaan Sains Matematik ke 33 (SKSM33) 2026, UTEM, Melaka.
- Invited Speakers, Simposium Kebangsaan Sains Matematik ke 32 (SKSM32) 2025, UPM, Selangor.
- Invited Speakers, Program Pengajaran Kolaboratif anjuran Kolej Pengajian Pengkomputeran, Informatik & Matematik, UiTM Jenka, Pahang. (2024)
- RBI Inspection Planning based on API 581, Trainer (2024)
- Invited Speakers, Seminar Kebangsaan Institut Statistik Malaysia Kali Ke 18 (SKISM XVIII) 2024)
- Invited Speakers, Program Mobility Mathelits, Thaksin University, Phatalung, Thailand
- Trainer, Bengkel Literasi Data Bagi Business Data Steward (BDS) Suruhanjaya Syarikat Malaysia - Projek Hala Tuju 6 – Data Management, 2023
- Trainers, API580/581 Risk Based Inspection (RBI) Training KANEKA (MALAYSIA) SDN BHD, 2022.
- The 5th ISM International Statistical Conference 2021, UTM, Johor.
- Invited Speakers, Simposium Kebangsaan Sains Matematik ke 26 (SKSM26) 2018, UMS, Sabah.
- Trainers, Risk Based Inspection (RBI) Training at Emery Oleochemicals, 2018

EXTERNAL EXAMINERS

1. Program PhD by Research. Universiti Kebangsaan Malaysia (UKM) (2026)
2. Program Master by Research. Universiti Pertahanan Negara Malaysia (UPNM) (2026)
3. Program PhD by Research. Universiti Teknologi Petronas (UTP) (2025)
4. Program PhD by Research. Universiti Pertahanan Negara Malaysia (UPNM) (2025)
5. Program Master by Research. Universiti Teknologi Malaysia (2024)
6. Program Master by Research. Universiti Malaysia Sabah (2021)
7. Pakar Rujuk Penggubal Maklumat Kursus (MK) Program Ijazah Sarjana Muda Perguruan (PISMP) Bidang Matematik Institut VSD Guru Tahun 2021. Institut Pendidikan Guru (IPG)

EDITORIAL BOARD/ NATIONAL ADVISORY BOARD/ INDUSTRY ADVISOR PANEL / INDUSTRY ADVISORY BOARD (IAB)/ EXTERNAL ACCESSOR / SCIENTIFIC COMMITTEE/

1. Data Analytics and Applied Mathematics (DAAM)
2. Mesopotamian Journal of Big Data (MJBD)
3. External Accessor (FAST, UTHM)
4. Polytechnic University of the Philippines (IAB)

5. Journal Gamification and Augmented Reality
6. 7th International Forum on Industrial Design (IFID 2019)
7. 4th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-2021)
8. 6th International Conference on Mathematics, Engineering & Industrial Applications (ICoMEIA 2026)

PROFESSIONAL MEMBERS

1. Professional Technologies (Ts.) - PT24070044
2. Graduated Technologies - GT24050558
3. Institute Mathematical Sciences (IMS) - 25236
4. Royal Statistical Society (RSS) – Fellow 209694
5. International Academy of Science and Engineering for Development (IASSED) - 51050197
6. Persatuan Sains dan Matematik (PERSAMA) – NS2020-2
7. Institute Statistical Malaysia (ISM) – 1139
8. Institute of Electrical and Electronics Engineers (IEEE) - 98180064

SUPERVISIONS

1. Main Supervisor, Farhana Syed Ahmad, Enhancing Financial Literacy and Digitalization in Small and Medium Enterprises (MSMES) Through Prescriptive and Predictive Modelling: A Comprehensive Framework for Sustainable Growth (PhD 2025 – Active)
2. Main Supervisor, Mahani Syed Ahamd, Leveraging AI for Scam Detection: Multilingual Text and Speech Analysis in Malaysia using Machine Learning and Deep Learning, (PhD 2025 – Active)
3. Main Supervisor, Aisyah Amalina Mohd Noor, Statistical Modelling and Machine Learning Approaches on Secondary School Students' Performance in Mathematics Subject based on Attitude, Motivations and Mathematics Anxiety. (MSc Mixed Mode 2023 - 2024 – Graduated)
4. Main Supervisor, Jaida Najihah Binti Jamidin, Formulation of Predictive Inference Modelling of Cardiac Markers to Diagnose Heart Function, (PhD 2025 – Offered)
5. Main Supervisor, Kanaga Lakshimi a/p Ravintiran, Statistical Analysis of Simulated Data for Health-Related Quality of Life in Patients with Acute Coronary Syndrome. (MSc Mixed Mode 2022 - 2024 – Graduated)
6. Main Supervisor, Amirah Hazwani Binti Roslin, Nonparametric Predictive Inference (NPI) for Predicting Forest Fires with Copula (PhD 2023 – Current, Active)
7. Main Supervisor, Mohamad Ridzuan Bin Shak Ibrahim, Predictive Modelling on Household Income in Malaysia using Machine Learning Approaches. (MSc Mixed Mode 2022 - 2023 – Graduated)
8. Main Supervisor, Nur Hidayah Binti Azmidi, Predicting Heart Disease Using A Hybrid Metaheuristic-Based Training of Echo State Network. (MSc 2023 – Current, Active)
9. Main Supervisor, Sharainie Binti Sahrin, Predictive Statistical Modelling on Enhancing Students' Performance using Hybrid Artificial Neural Network and Structural Equation Modelling (PhD 2021 – Current, VIVA Active)
10. Main Supervisor, Nur Zahirah Binti Md Noor, Predictive Modelling of Cardiovascular Diseases Considering Copula and Machine Learning Method (PhD 2021 – Current, Active)

11. Main Supervisor, Mirza Rizwan Sajid, Modelling of Cardiovascular Diseases (CVDs) and Development of Predictive Heart Risk Score. (PhD 2017 – 2021, Graduated).
12. Main Supervisor, Gamil Abdulraheq Abdullah Saeed, Development a Parametric Model for Grouped and Ungrouped Line Transect Data. (PhD 2016 – 2021, Graduated).
13. Main Supervisor, Nurfateha Binti Mohd Yamikazam, Online Learning in Higher Institution of Education During COVID-19: Enhancing POLISAS Students' Performance in Calculus Through Conceptual Knowledge. (MSc Mixed Mode 2020 – 2021, Graduated)
14. Co-Supervisor, Mohd Syafiq Asyraf Bin Suhaimi, Development of A Predictive Algorithm for Heart Disease using An Ensemble of Logit Model and Nearest Neighbour Tree Method Based on Smartwatch Data (MSc 2021 – Graduated)
15. Co-Supervisor, Nurulhaida Binti Zakaria, New Formulation of A Robust Principal Component Analysis Algorithm in Machine Learning. (PhD 2021 – Withdraw)
16. Co-Supervisor, Siti Nur Avivah, The Comparison of PCA and 2DPCA to Identify the Image of Beef, Pork, and Adulterated Meat Based on The Probabilistic Neural Network (PNN) Classification. (MSc 2021-).
17. Co-Supervisor, Mohd Khairul Hafiz Bin Khairuldin, Risk Based Inspection (RBI) : A Semi Quantitative Approach for Inspection Planning Using AP1581 Methodology. (MSc 2020-Graduated).
18. Co-Supervisor, Muhammad Fahmi Bin Ahmad Zuber, Stochastic Modelling Of The Transmission Dynamic Of Covid 19 Outbreak In Malaysia: From Data To Intervention. (PhD 2020- Graduated).
19. Co-Supervisor, Sarah Alyaa Binti Mohd Khaidi. Development of Forecasting Model for New Tourism Product Demand in Malaysia. (MSc 2018 – 2021, Graduated).
20. Co-supervisor, Nur Hidayah Said, Analysis of Rainfall Patern in Pahang using Frequencies Analysis. SEM I 2009/2010. (Degree Final Year Project, Graduated)
21. Co-supervisor, Gan Sin Yi, Mathematical Modelling to Predict surface Roughness in Milling Process. SEM I 2008/2009. (Degree Final Year Project, Graduated)

REVIEWER

1. Intelligent Automation & Soft Computing (IF 3.401).
2. Applied Computational Intelligence and Soft Computing
3. Neuroscience Research (IF 2.904).
4. Journal of Big Data
5. Journal of Computer Science
6. Journal of Water Resources Management, Springer Netherlands (h-index 74, Q1).
7. Journal of Modern Applied Statistical Methods (JMASM) (h-index 19, Q3).
8. Malaysian Journal of Fundamentals and Applied Sciences (MJFAS) (h-index 9, Q4).
9. ZULFAQAR International Journal of Defence Science, Engineering & Technology (IJDSET).
10. International Journal of Computing Science and Mathematics (IJCSM).
11. Journal of Mathematics and Computing Science, 2020.
12. Journal of Mathematical Sciences and Informatics
13. Journal of Quality and Measurement and Analysis (JQMA) -WoS

14. Journal Statistics Theory and Method
15. Statistics, Optimization & Information Computing Journal.
16. Artificial Intelligence in Medicine (IF 6.4)
17. Asian Journal of Agriculture Extension Economic and Sociology
18. Malaysian Journal of Computing (MJoC)
19. Asian Journal of Social Science Research (AJSSR)
20. European Heart Journal – Digital Health
21. Data Analytics and Applied Mathematics (DAAM)
22. Applied Mathematics and Computational Intelligence
23. Biomechanic and Biomedicals
24. Computers in Biology and Medicine
25. Engineering Report
26. Intelligence Based Medicine
27. International Research Journal of Multidisciplinary Scope (IRJMS)
28. Simposium Kebangsaan Sains Matematik ke 32 (SKSM32) (2025).
29. International Conference of Applied & Industrial Mathematics and Statistics (ICoAIMS 2025).
30. International Seminar on Mathematics in Industry (ISMI 2017).
31. International Joint Conference 2017 (IJC 2017).
32. International Conference of Applied & Industrial Mathematics and Statistics (ICoAIMS 2017).
33. The 5th International Conference on Quantitative Sciences and its Applications (ICOQSIA 2018).
34. The 4th International Conference on the Applications of Science and Mathematics 2018 (SCIENMATHIC2018).
35. The International Conference on Science, Engineering & Technology (i-SET 2018) and The International Conference on Business Management & Social Sciences (i-BUSS 2018)
36. Simposium Kebangsaan Sains Matematik ke 26 (SKSM26) (2019).
37. The 4th International Conference on Computing, Mathematics and Statistics 2019.
38. International Joint Conference 2019 (IJC 2019).
39. 2nd International Conference of Applied & Industrial Mathematics and Statistics (ICoAIMS 2019).
40. The 4th Innovation and Analytic Conference and Exhibition 2019 (IACE 2019).
41. The 5th International Conference on Soft Computing in Data Science 2019 (SCDS2019).
42. 6th International Conference on Structure, Engineering & Environment (SEE), 2020.
43. 3rd Regional Academic Symposium on Science & Technology 2020 (3rd Regional ASST 2020)
44. Journal's reviewer in conjunction with the 3rd International Conference on Information and Communication Technology 2021 (ICICTM 2021).
45. Simposium Kebangsaan Sains Matematik ke 28 (SKSM28) (2021).
46. International Conference on the Application of Science and Mathematics 2021 (SCIEMATHIC 2021).
47. The 11th International Conference on Geotechnique, Construction Materials and Environment 2021 (GEOMATE 2021).
48. 4th Regional Academic Symposium on Science & Technology 2022 (4th Regional ASST 2022)
49. International Conference of Applied & Industrial Mathematics and Statistics (ICoAIMS 2022).

CONSULTATIONS

1. Program Pensijilan Professional Certification In Data Analytic (Python, Tableau, Rapid Miner) Course. (Completed)
2. Program Pensijilan Professional In Front-End Web Developer (World Wide Web Consortium): Html Coding Essentials And Best Practices (Completed)

3. KANEKA (M) Sdn Bhd– Risk-based inspection (RBI) for pressure equipment. (Completed)
4. EMERY Oleochemicals (M) Sdn Bhd – Risk-based inspection (RBI) for pressure equipment. (Completed)
5. Pusat Zakat Pahang - Kajian Semula Had Al-Kifayah Negeri Pahang 2021 (Completed)
6. HTAA, KKM - Predictive Model of Heart Risk Score. (Completed)
7. Projek Asnaf (Completed)
8. Training of Trainers – UMP Mathematical Olympiad Training. (Completed)
9. Math Bootcamp (Completed)
10. KANEKA (M) Sdn Bhd- Integrated Security Management System for Kaneka (On-going)
11. Kemaman Bitumen Corporation (KBC) Sdn. Bhd - Risk-based inspection (RBI) for pressure equipment (On-going)
12. Favoriot Sdn Bhd – Improve Smartwatch Algorithm and Employee monitoring/Tourism Planner (On-going)
13. Prodata, FGV - Analytical Dashboard and Storage Data optimization (On-going)
14. Sycarda Sdn Bhd-Recommendation Engines (in process)
15. Sycarda Sdn Bhd-SYCARDA Data Sell Platform (in process)
16. Affin Bank Berhad – Segmentation Customer Modelling (in process)

COPYRIGHT

1. GUI of Predictive Inference of Forest Fire Spots (PIFFS) (Submitted-2024) (Leader)
2. Predictive Inference of Forest Fire Spots with Dependence Structure- LY2024C02210 (Leader)
3. Non-Laboratory Health Risk Score (NLHRS) - LY2021W00499 (leader)
4. The Transmission Dynamic of the COVID 19 Outbreak: A Predictive Dashboard - LY2021W00276 (members)
5. Predictive Model for Pandemic Outbreaks in Response to COVID-19 – LY2021000041 (members)
6. Excel Spreadsheet of Risk Based Inspection API 581 Third Edition – LY2020006760 (members)
7. Excel Spreadsheet of Damage Mechanism Risk Based Inspection Based on API 581 Second Edition – LY2021000042 (members)

RESEARCH AWARDS

1. **Best Paper Presented**, Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2025). Nonparametric Predictive Inference Forest Fire Dashboard.
2. **Augerah PERSAMA 2023, Hadiah Sanjungan Kategori Rekacipta** ‘Nonparametric Predictive Inference Inference Forest Fire Dashboard’.
3. **Best Paper Presented**, The 9th International Conference on Computer Science and Computational Intelligence (ICCSCI 2024). Nonparametric Predictive Inference Forest Fire Dashboard.
4. **Silver Medal**, Creation, Innovation, Technology & Research Exposition 2024 (CITReX 2024). *Nonparametric Predictive Inference (NPI) Forest Fire Dashboard*. (Project Leader)
5. **Silver Medal**, Creation, Innovation, Technology & Research Exposition 2024 (CITReX 2024). *RISKSmart Learning System*. (Project Members)
6. **Silver Medal**, Creation, Innovation, Technology & Research Exposition 2023 (CITReX 2023). *Unveiling Covid-19 Insights: Estimating Epidemiological Parameters with A Markov Chain Monte Carlo GUI*.

(Project Members)

7. **Bronze Medal**, Creation, Innovation, Technology & Research Exposition 2023 (CITReX 2023). *Web-Based for Diabetes and Cardiovascular Disease Risk Prediction Using Automated Machine Learning*. (Project Members)
8. **Silver Medal**, International Invention, Innovation & Technology Exhibition (ITEX), Malaysia (13-15 Dec 2021) with the project entitled "*Pandemic Preparedness Simulation Tool*" (Project Members)
9. **Silver Award** in Creation, Innovation, Technology & Research Exposition 2021 (CITReX 2021). *Development A Predictive Heart Risk Score: A Predictive Mobile App*. (Project Leader)
10. **Gold Award** in Creation, Innovation, Technology & Research Exposition 2021 (CITReX 2021). *The Transmission Dynamic of The Covid 19 Outbreak: A Predictive Dashboard*.
11. Augerah PERSAMA 2021, **Hadiah Utama Kategori Rekacipta** '*Predictive Model for Pandemic Outbreaks: In response to Covid 19*'.
12. **Best Paper Award**, 17th Kuala Lumpur International Communication Education Language & Social Science Conference and 13th Kuala Lumpur International Islamic Studies & Civilisations Conference 2021. Nurfateha Mohd Yamikazam & Noryanti Muhammad. An Inferential Study on Online Learning During Covid-19 in Calculus Through Conceptual Knowledge. *Journal of Education and Social Sciences*, Vol. 17, Issue 1, (June) ISSN 2289-9855.
13. **Gold Awards** in Malaysia Technology Expo (MTE Special Edition-2020) COVID-19 International Innovation Awards. *Predictive Model for Pandemic Outbreaks: In Response to COVID-19*.
14. **Bronze Medal** in Creation, Innovation, Technology & Research Exposition 2020 (CITReX 2020). *New Tourism Product Forecasting: An integration of Bass and Grey*.
15. **Silver Award** in in Creation, Innovation, Technology & Research Exposition 2019 (CITReX 2019). *Risk Based Inspection (RBI) Spreadsheet: API 581 Third Edition*.
16. **Silver Medal** in Creation, Innovation, Technology & Research Exposition 2011 (CITReX 2011). *Forecasting Crude Oil Prices Using Time Series Modelling*.

BOOKS, MODULES, EDITORIALS

1. Essential Engineering Mathematics Module (submitted). (2021) UMP Publisher.
2. Copula modelling and its application (edited book)- (published) (2023). UTM Publisher.
3. Statistical Tables and Formulae 2.0, Nor Hafiza.h Moslim, Farahanim Misni, **Noryanti Muhammad**, Nor Azila Che Musa, Noor Fadhilah Ahmad Radi, Roslinazairimah Zakaria, Siti Roslindar Yaziz, 2018, UMP publisher. ISBN 978-967-0120-71-3.
4. 1st International Conference on Applied & Industrial Mathematics and Statistics 2017 (ICoAIMS 2017) (2017) IOP Publisher.
5. Applied Statistics Module, Nor Hafizah Moslim, Roslinazairimah Zakaria, Farahhanim Misni, Siti

Roslindar Yaziz, **Noryanti Muhammad** and Siti Zanariah Sateri, 2013, UMP publisher. ISBN 978-967-0120-94-2.

6. Statistical Tables, Nor Hafizah Moslim, Farahanim Misni, **Noryanti Muhammad**, Nor Azila Che Musa, Noor Fadhilah Ahmad Radi, Roslinazairimah Zakaria, Siti Roslindar Yaziz, 2013, UMP publisher. ISBN978-967-0120-71-3.
7. Research Design & Data Analysis in Social Science, Mohd Ghani Awang, Suriya Kumar S., **Noryanti Muhammad**, 2012, UMP publisher. ISBN 978 967 0210 34 8.

LIST OF PUBLICATIONS

Published

1. Kadir, E. A., Daud, H., Maharani, W., **Muhammad, N.**, Bakar, W. A. W. A., Irie, H., & Rosa, S. L. (2026). Environmental monitoring and forecasting for forest fire in Southeast Asia. *Pollack Periodica*, 606-2025.
2. Azmidi, N.H., **Muhammad, N.**, Bala, A., Rosli, N., Mohamed, N. (2026). A Comparative Analysis of Predicting Heart Disease Using Machine Learning Algorithms. In: Wah, Y.B., Al-Jumeily, D., Berry, M.W. (eds) Data Science and Emerging Technologies. DaSET 2024. Lecture Notes on Data Engineering and Communications Technologies, vol 257. Springer, Singapore. https://doi.org/10.1007/978-981-96-7749-8_23
3. Permai, S.D., Sari, A.P.M., Cristian, V., **Muhammad, N.** (2026). Parametric Survival Analysis Using Weibull Regression Model for Stroke Patients. In: Wah, Y.B., Al-Jumeily, D., Berry, M.W. (eds) Data Science and Emerging Technologies. DaSET 2024. Lecture Notes on Data Engineering and Communications Technologies, vol 257. Springer, Singapore. https://doi.org/10.1007/978-981-96-7749-8_25
4. Hairudin, N. A. S. N., Muhammad, N., Mohamad, M. I. H., & Bakar, W. Z. W. A. (2025). Logistics Regression Modelling for Anti Money Laundering Detection for Reporting Institution. *Journal of Technology Management and Business*, 12(2), 98-106.
5. Zuber, M. F. A., Rosli, N., & Muhammad, N. (2025, December). Reemergence of stochastic epidemiological model literatures due to COVID-19 pandemic: A bibliometric analysis. In AIP Conference Proceedings (Vol. 3338, No. 1, p. 040004). AIP Publishing LLC.
6. Sahrin, S., Muhammad, N., & Afthanorhan, W. M. A. W. (2025, December). Exploratory factor analysis (EFA) of students' interest based on mathematics content domain. In AIP Conference Proceedings (Vol. 3338, No. 1, p. 060001). AIP Publishing LLC.
7. Kadir, E. A., Daud, H., Maharani, W., & Muhammad, N. (2025, October). Mapping of Fire Hotspot Distribution and Forecasting in Indonesia. In Proceedings of the International Conference on Smart Cities—Volume 1: ICSC 2024, September 10–11, Kota Kinabalu, Malaysia (p. 477). Springer Nature.
8. Sahrin, S., Muhammad, N., & Afthanorhan, A. (2025). Modelling Mathematical Performance Using Two Staged Hybrid Structural Equation Modelling and Artificial Neural Network Among Secondary School Students. *Journal of Quality Measurement and Analysis*, 21(4), 17-40.
9. Azmidi, N. H., Muhammad, N., & Khairuddin, R. (2025). The Exploration of Hybrid Metaheuristics-Based Approaches: A Bibliometric Analysis. *International Journal of Advanced Research in Future Ready*

Learning and Education, 40(1), 55-67.

10. Roslin, A.H., Muhammad, N. Global impact and thematic evolution of object detection in the deep learning era. *Discov Artif Intell* 5, 262 (2025). <https://doi.org/10.1007/s44163-025-00528-x>
11. N. Muhammad, W. M. . Wan Alias, M. R. Mohd Salleh, and Y. . Hayashida, "Potholes Detection from Dashcam using Deep Learning Approach", *Data Anal. Appl. Math.*, vol. 6, no. 2, pp. 1–9, Sep. 2025, doi: 10.15282/daam.v6i2.12679.
12. **Muhammad, N.**, Khaharruddin, M. F., & Firdaus, M. I. (2025, March). Scalability and Performance in Duplicate Detection: Relational Versus Graph Database. In *Future of Information and Communication Conference* (pp. 702-717). Cham: Springer Nature Switzerland. **Scopus**
13. ROSLIN, A. H., **MUHAMMAD, N.**, & KADIR, E. A. (2025). FORECASTING LOCATIONS OF FOREST FIRES IN INDONESIA THROUGH NONPARAMETRIC PREDICTIVE INFERENCE WITH PARAMETRIC COPULA: A CASE STUDY. *Journal of Quality Measurement and Analysis JQMA*, 21(1), 237-251. **WoS**
14. **Noryanti Muhammad** and Mohamad Ridzuan Shak Ibrahim, (2025), *Journal of Education and Social Sciences*, Vol. 30, Issue 1, (Jan.) ISSN 2289-9855. **MyCite**
15. **Muhammad, N.**, Amin, M. N. M., & Adnan, R. A. (2025). Predictive Modelling on Competitor Analysis Performance by using Generalised Linear Models and Machine Learning Approach. *Journal of Advanced Research in Applied Sciences and Engineering Technology*, 45(1), 51-59. **Scopus**
16. Wan Yusoff W. N. S., **Muhammad N.**, Abd Mutalib S. S. S., Zakaria Z. A. A robust network topology approach for survival analysis. *Mathematical Modeling and Computing*. Vol. 12, No. 2, pp. 525–531 (2025). **Scopus**
17. Permai, S. D., Sari, A. P. M., Cristian, V., & **Muhammad, N.** (2024, December). Parametric Survival Analysis Using Weibull Regression Model for Stroke Patients. In *The International Conference on Data Science and Emerging Technologies* (pp. 379-389). Singapore: Springer Nature Singapore.
18. Mat Said, M. H., **Muhammad, N.**, & Musa, N. (2024). Affecting Factor, the Standard of Life of Asnaf under the Care Program of Asnaf Masjid Lama Permatang Badak, Kuantan. *International Journal of Humanities Technology and Civilization*, 9(2), 111-115. <https://doi.org/10.15282/ijhtc.v9i2.10168>. **MyCite**
19. Maharani, W., Daud, H., **Muhammad, N.**, & Kadir, E. A. (2024). Leveraging Social Media Data for Forest Fires Sentiment Classification: A Data-Driven Method. *Journal of Information Systems Engineering & Business Intelligence*, 10(3). **WoS**
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Conference on Teaching & Learning in Higher Education 2009, The Legend Hotel, Kuala Lumpur, 23 – 25 November 2009.

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POSTER PRESENTATION

1. Presented a poster at Durham Risk Day 2014 at Joachim Room, St Hild and St Bede College, (12 Nov 2014). (Title-Semi-parametric predictive inference for bivariate data: robustness against copula misspecification)
2. Presented a talk at Research Students' Conference in Probability, Statistics and Social Statistics (RSC 2014) at Nottingham (28 April - 01 May 2014). (Title - NPI with parametric copula).
3. Presented a talk at Northern Postgraduate Mini-Conference in Statistics 2014, Newcastle University (22-23 June 2014). (Title - NPI with nonparametric copula).
4. Presented a poster at Royal Statistical Society International Conference 2014 (RSS 2014) in City Hall, Sheffield (1-4 September 2014). (Title - NPI with copula)
5. Presented poster at Research Students' Conference in Probability, Statistics and Social Statistics (RSC 2013) at Lancaster (24-28 March 2013).
6. Presented poster at Royal Statistical Society International Conference 2013 (RSS 2013) in University of Northumbria, Newcastle (2-5 September 2013).

TEACHING EXPERIENCE

University Course (Institute Postgraduate Studies)

- UIS 1123 Inferential Statistics

Postgraduate (Master of Science - Industrial Mathematics)

- MSU 4113 Research Methodology
- MSU 4254 Statistical Modelling
- MSM5910 Dissertation I
- MSM5920 Dissertation II

Undergraduate (Degree)

- BSD3722 Data Science Project I
- BSD3724 Data Science Project II
- BSD4673 Risk Analysis
- BSD2712 Research Methodology
- BSD3443 Statistical Modelling and Simulation
- BSD 2423 Mathematical Statistics
- QMT 216 Introduction to Statistics (UiTM)
- BMM 1313 Computer Programming (C++)
- BMM 1123 Engineering Mathematics 2 (ODE)
- BMM 1113 Engineering Mathematics 1 (Vector Calculus)
- BMM 2122 Engineering Mathematics 4 (Applied Statistics)
- BPF 3313 Applied Statistics
- BCT2053 Applied Statistics
- BUM 2413 Applied Statistics
- BSD 2412 Counting and Probability

Undergraduate (Diploma)

- QMT 181 Introduction to Statistics (UiTM)
- DMM 1312 Computer Programming (C++)
- DMM 2122 Engineering Statistics
- DMM 1142 Engineering Mathematics 2 (Calculus)
- DCT1043 Foundation of Mathematics/Basic Mathematics
- DUM 2413 Statistics and Probability

Preparatory Intensive English for China Students

- PIE0001 Mathematics