

CURRICULUM VITAE

PERSONAL DETAIL

Nama Norshahida Shaadan
Designation Senior lecturer
Department Statistics and Decision Sciences
Institution Universiti Teknologi MARA (UiTM)
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Professional membership Institute Statistics Malaysia (ISM)- councilors
Address Center for Statistical and Decision Science Studies
Faculty of Computer & Mathematical Sciences, 40450,
UiTM Shah Alam, Selangor, Malaysia.
Research expertist Envirometrics –statistics for environment, Functional
Data Analysis, Data driven problem solving –
methodology and tools.
Research area Air quality and pollution research. Control chart
development and applications. Outlier detection and
assessment. Data visualization. Missing data treatment
and analysis.



ACADEMIC QUALIFICATION

- PhD (Statistics- Environmetrics)
Universiti Kebangsaan Malaysia 2015
- Masters in Statistics
Universiti Kebangsaan Malaysia 2002
- Bsc. Hons in Mathematics and Statistics
University of Bradford, United Kingdom (UK) 1996

TEACHING EXPERIENCE

- Lecturer at UiTM Perlis: 1997-2000
- Lercturer at UiTM Shah Alam: 2000-now
- Subjects thought:

-Fundamental Engineering Mathematics, Statistics for Business, Calculus for applied sciences, Fundamental Operational Research, Mathematics Management, Probability and Statistics, Fundamentals of Research, Statistical Methods, Statistics for Science and Engineering, Quality Control and Management.

WORKSHOP FACILITATORS AND SPEAKERS

- Data Management and Analysis with R

ADMINISTRATIVE EXPERIENCE

- Coordinator for Masters Degree in Applied Statistics (CS702) and Quantitative Sciences (CS771) for the Centre of Statistics and Decision Science Study, FSKM, UiTM Shah Alam since 1st September 2015.
- Head of Program for Bachelor Degree in Statistics (CS221) for Centre of Statistics and Decision Science Study, FSKM, UiTM Shah Alam: 2005-2007.

PROFESSIONAL ACTIVITIES/ CONTRIBUTION

- Reviewer for Journal of Sustainable Environment, 2015 – Present (2016)
- Reviewer for Conference Paper – The 6th International Conference on Science and Technology (ICSTIE) 2016 -(publication in Journal Teknologi UTM).
- Reviewer for Conference Paper – The 2nd International Conference on Statistical Science and Business (ICSSBE) - publication in Journal Teknologi UTM and Journal PERTANIKA).
- Committee for National Conference organized by bank Negara, Department of Environment and ISM-MyStats 2016.

RESEARCH AND PROJECT

- LESTARI grant 2015 -Profiling Ozone variations at Several Locations in Selangor using Functional Data Analysis
- LESTARI grant 2015 -Modeling Risk Factors of StillBirth: A retrospective cohort study at Hospital Serdang
- BRC grant 2007-Bumiputra Consumer's Perceptions on Buying TAKAFUL.
- BRC grant 2005 – Kadar Penggraduanan Yang Melebihi Tempoh Di Kalangan Pelajar UiTM
- BRC grant 2004-Assessing Performance Via Indicators: A Case Study of Short-Term Projects of BRC (Year 2000-2002).

AWARD

- Best presenter Award in International Conference on Green and Engineering Technology (CSSR) 2016
- Full PhD Scholarship Award from Universiti Teknologi MARA (Dec 2010 – Dec 2015)
- Best presenter Award in Conference on Scientific and Social Research (CSSR) 2008/2009
- Excellent Services Award UiTM 2007
- Full Masters Scholarship Award from Universiti Teknologi MARA (UiTM) (May 2001 – June 2002)
- Full Bachelor Scholarship Award from Majlis Amanah Rakyat (MARA) (1994 – 1996)
- Best student and outstanding Performance Award during final year B.Sc. (Mathematics and Statistics –Bradford University-UK) (July 1996).

SUPERVISION

Degree Research Topics:

- Time Series and Forecasting ARIMA Model for Carbon Monoxide (CO) at several busiest town in Peninsular Malaysia
- Investing and Visualizing Potential Ozone Severity at Several Locations in Klang Valley Region.
- Multiple Linear Regression Analysis of PM10 Time Series and the Temporal Trend in Petaling Jaya.

Masters Research Topics

- Comparison of Several Imputation Methods for Air Quality (PM10) Time Series Data
- Visualizing Diurnal Ozone Behaviour at Several Locations in Selangor using Functional Data Analysis
- A study on Ozone Concentration Level Using Probability Distributions: A case study in Petaling Jaya, Shah Alam and Putrajaya.
- Defects Investigation and Monitoring for A320 Fairing Production: a case study.

PUBLICATION

Shaadan, N., Jemain, A.A., Latif, M.T. & Deni, S.M. 2015. Anomaly detection and assessment of PM10 functional data at several locations in the Klang Valley Malaysia. *Atmospheric Pollution Research* 6: 365-375. (WILEY Interscience, ISSN: 1309-1042, Impact Factor 2014: 1.227).

Shaadan, N., Deni, S.M & Jemain, A.A. 2015. Investigating the capability of a control chart based on functional data for daily PM10 monitoring. *Prosiding American Institute of Physics (AIP)* 1643(1): 58-64. DOI: 10.1063/1.4907425.

Shaadan, N., Deni, S.M & Jemain, A.A. 2015. Application of Functional Data Analysis for the Treatment of Missing Air Quality Data. *Sains Malaysiana* 4(10): 1531–1540. (UKM, ISSN: 0126-6039, Impact Factor 2013: 0.480).

Shaadan, N., Deni, S.M & Jemain, A.A. 2014. The construction of control chart for PM10 functional data. *Prosiding American Institute of Physics (AIP)* 1602: 1161-1167. DOI: 10.1063/1.4882631.

Shaadan, N., Deni, S.M & Jemain, A.A. 2014. Reducing autocorrelation effect in the control chart for PM10 curves. (Seek Digital Library-IREC USA, ISBN: 978-1-63248-004-0, CROSS-REF).

Shaadan, N., Deni, S.M & Jemain, A.A. 2014. Data preparation for functional data analysis of PM10 in Peninsular Malaysia. *Prosiding American Institute of Physics (AIP)* 1605: 850-855. DOI: 10.1063/1.4887701.

Shaadan, N., A.A. Jemain and S.M. Deni, 2014. Reducing autocorrelation effect in the control chart for PM10 curves. *Int. J. Math. Computational Sci.*, 1: 1-5

Shaadan, N., Deni, S.M & Jemain, A.A. 2012. Assessing and comparing PM10 pollutant behaviour using functional data approach. *Sains Malaysiana* 41(11): 1335-1344. (UKM, ISSN: 0126-6039, Impact Factor 2013: 0.480).

Shaadan, N., Deni, S.M & Jemain, A.A. 2012. Comparing the severity of PM10 using functional descriptive statistics: a case study in Klang Valley. *Journal of Statistical Modelling & Analytics* 3(1): 1-10. (UiTM-ISM, ISSN: 2180-3102, Berwasit).

Shaadan, N. Research Performance Evaluation Using Data Envelopment Analysis (DEA). *Jurnal Teknologi Maklumat & Sains Kuantitatif*. Jilid 7, Bil. 1, 2005

- Shaadan, N. Performance Assessment in Higher Education via Parametric Method. *Jurnal Teknologi Maklumat & Sains Kuantitatif*. Jilid 5, Bil. 1, 2003
- Shaadan, N. Pemantauan kualiti udara dengan teori kedalaman fungsi. *Prosiding Kolokium Pasca Siswazah UKM-FST*. 2011.
- Shaadan, N. Faculty Ranking at UiTM via performance indicator: The non-parametric method; *Proceedings: Conference on Scientific and Social Research 08'09 (CSSR)*. (2009)
- Shaadan, N. Application of Data Envelopment Analysis (DEA) in Higher Education: The Research Performance Evaluation; *Proceedings: Sains Teknologi & Sains Sosial (STSS) : (Pahang State Government & UiTM)*. (2008)
- Yap, B.W., Haron, H. & Shaadan, N. Sample size determination in survey research. *Proceeding : The 9th International Islamic Countries conferences 2007 (ICCS-IX)*. (2007)
- Shaadan, N. Evaluating Research Performance Via Indicator: The Parametric Approach. *Proceedings :STSS (Pahang State Government & UiTM)*. (2006)
- Shaadan, N. Assessing Performance Via Indicators: A case study of short-term BRC Research Projects (Year 2000-2002). *Proceedings CSSR (IRDC)*. (2005).
- Shaadan, N. Pembinaan Indeks Prestasi Komposit (IPK) Dengan Pendekatan Analisis Multikriteria (Kaedah Promethee). *Penulisan Teknikal Jilid 1: Simpanan STAT-OR Bureau (PPS-Shah Alam)*. (2005)