


PERSONAL DETAILS

Name : ZARINA MOHD KHALID
Gender : FEMALE
Nationality : MALAYSIA
Marital Status : MARRIED
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 FACULTY OF SCIENCE, UTM
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ID Staff : 7166
Expertise : STATISTICS
H-Index (WOS) : 3
H-Index (SCOPUS) : 1
H-Index (G. Scholar) : 3
H-Index (Researchgate) : 3

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1.	Doctor of Philosophy	Statistics	University of Kent, UK	05.10.2001	29.09.2005
2.	Master of Science	Statistics	University of Warwick, UK	01.09.1997	31.05.1998
3.	Bachelor of Science with Honours	Actuarial Science	University of Kent, UK	01.09.1993	31.05.1996

WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1.	Associate Professor (DS54)	08.03.2022	02.10.2033	Department of Mathematical Sciences, Faculty of Science, UTM
2.	Director (Mathematical Sciences)	01.07.2021	30.06.2024	Faculty of Science, UTM
3.	Senior Lecturer (DS52)	12.05.2007	07.03.2022	Department of Mathematical Sciences, Faculty of Science, UTM
4.	Lecturer (DS45)	09.12.1998	11.05.2007	Department of Mathematics, Faculty of Science, UTM
5.	Tutor (DS41)	02.11.1996	08.12.1998	Department of Mathematics,

				Faculty of Science, UTM
6.	Quality Control Inspector	01.06.1994	15.09.1994	Vikay Industry Private Limited Co., Industrial Park, Bandar Tenggara, Kulai
7.	Production Operator	01.04.1991	30.06.1991	Matsushita Precision Industries, Senai

AWARD AND HONORS RECEIVED

SUMMARY	
International Awards/Honors	1
National Awards/Honors	1
UTM Awards/Honors	8
Faculty Awards/Honors	5

NO	AWARD	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	YEAR
1.	Fisher Memorial Bursary Award	International Biometrics Society British Region	2004
2.	UTM Excellence in Service Award (Citra Karisma)	UTM	2008
3.	Persatuan Sains Matematik (PERSAMA) Award Journal Article Category – Consolation Prize: Noraslinda Mohamed Ismail, Zarina Mohd Khalid & Norhaiza Ahmad. “ <i>Survival Data Analysis Using Additive and Multiplicative Gamma Polygonal Hazards Function</i> ” Matematika, 2013, Vol. 29, No. 1b, 117 – 127.	National	2014
4.	Faculty of Science Excellence in Service Award	Faculty	2014
5.	UTMLead Award of Excellence In recognition of valuable contribution of Active Blended Learning course in Semester 2, 2015/2016 (SSCM4863 Financial Mathematics, Section 01)	UTM	2015
6.	Faculty of Science Dean’s Special Award	Faculty	2016
7.	Faculty of Science Academic Advisor Award (Category: Department of Mathematical Sciences)	Faculty	2016
8.	UTMLead Award of Excellence In recognition of valuable contribution of Active Blended Learning course in Semester 1, 2017/2018 (SSCE2193 Engineering Statistics, Sections 15, 16 & 17)	UTM	2017
9.	UTM Excellence in Service Award (Citra Karisma)	UTM	2017
10.	UTM Appreciation Award (Citra Karisma) Author in Indexed Journal Award (Faculty Category)	UTM	2018
11.	Faculty of Science Students Development Award	Faculty	2018

	(Category: Department of Mathematical Sciences)		
12.	UTM Anugerah Jasa Bakti (20 years in service)	UTM	2019
13.	Faculty of Science Award of Excellence	Faculty	2019
14.	UTMLead Award of Excellence Active Blended Learning course in Semester 2, 2019/2020 (SSCE2193 Engineering Statistics, Sections 31, 41 & 61)	UTM	2019
15.	UTMLead Award of Excellence Active Blended Learning course in Semester 1, 2020/2021 (SSCE2193 Sections 21 & 41, SSCM2103 Section 01)	UTM	2020
16.	UTMLead Award of Excellence Blended Learning course in Semester 2, 2020/2021 (SSCE2193 Sections 34 & 43)	UTM	2021
17.	Faculty of Science Award of Excellence	Faculty	2019
18.	NALI 2021 (Silver Medal) Embedding Statistical Knowledge in Solving Real Data Application with Cutting-Edge Technology	National	2021

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

SUMMARY	
International Professional Membership / Qualifications / Recognition	1
National Professional Membership / Qualifications / Recognition	2

NO	NAME OF PROFESIONAL MEMBERSHIP	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	ROLE	YEAR
1.	Persatuan Sains Matematik Malaysia (PERSAMA)	National	Life-Time Member	Since 2005
2.	International Association of Engineers, Hong Kong	International	Life-Time Member	Since 2010
3.	Institut Statistik Malaysia (ISMy)	National	Life-Time Member	Since 2017

ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ ORGANISATION
1.	Academic Advisor 19 SSM (Industrial Mathematics) Students, Cohort 2006/07	01.09.2006	31.05.2009	Department of Mathematical Sciences, Faculty of Science, UTM
2.	Coordinator and Accompanying Lecturer 14 Mathematics Students in 8-day UTM Global Outreach Program to Institut	16.11.2009	23.11.2009	UTM

	Teknologi Sepuluh Nopember (ITS), Surabaya			
3.	Academic Advisor 7 SSE (Mathematics) and 12 SSM (Industrial Mathematics) students, Cohort 2010/11	28.06.2010	31.05.2014	Department of Mathematical Sciences, Faculty of Science, UTM
4.	Acting Head Mathematical Sciences Department or Mathematical Sciences Director. (11 times)	2015	2020	Department of Mathematical Sciences, Faculty of Science, UTM
5.	Speaker/facilitator Introductory Data Analysis Using SPSS Workshop	04.02.2015	05.02.2015	Postgraduate Student Society UTM, School of Postgraduate Studies, UTM
6.	Coordinator <i>Ceramah Usahawan</i> Program	02.06.2015	02.06.2015	Department of Mathematical Sciences, Faculty of Science, UTM
7.	Assistant Head Mathematical Sciences Department.	01.07.2015	31.12.2016	Department of Mathematical Sciences, Faculty of Science, UTM
8.	Speaker/facilitator SPSS Workshop	15.08.2015	15.08.2015	Postgraduate Students Society of Faculty of Civil Engineering (PGSS-CE)
9.	Coordinator Serviced Courses	10.12.2015	30.06.2021	Department of Mathematical Sciences, Faculty of Science, UTM
10.	Coordinator Lecture Program by Industry Representative in Teaching & Learning at JSM	15.12.2015	15.12.2015	Department of Mathematical Sciences, Faculty of Science, UTM
11.	Facilitator Review Paper Writing Workshop	06.12.2016	06.12.2016	CS Nano, Ibnu Sina Building, N31
12.	Jury Faculty of Education Innovation Day 2016	08.12.2016	08.12.2016	Faculty of Education, UTM
13.	Coordinator Students Development	01.01.2017	30.06.2018	Faculty of Science, UTM
14.	Leader Statistical Modelling (STAM) Research Group	01.05.2017	30.04.2022	Department of Mathematical Sciences, Faculty of Science, UTM
15.	Facilitator RUG Proposal Writing Workshop	02.05.2017	02.05.2017	Faculty of Science, UTM
16.	Coordinator & Accompanying Lecturer 40 UTM students attending ASPIRE 500 Conference of Graduan Aspire 2017, KLCC	20.05.2017	20.05.2017	UTM
17.	Academic Advisor 17 SSCM (Industrial Mathematics) Students, Cohort 2017/18.	20.08.2017	31.05.2021	Department of Mathematical Sciences, Faculty of Science, UTM

18.	Actuarial Analyst Assist on UTM Employees' Benefits Scheme	10.12.2017	31.01.2018	UTM Bursary Office
19.	Fascilitator First Year Experience (FYE) 7 Habits of Highly Effective People,	24.11.2017	24.11.2017	Department of Mathematical Sciences, Faculty of Science, UTM
20.	Person-in-Charge MoU between FS and Fakultas Matematika dan Ilmu Pengetahuan Alam (FMIPA), University Andalas, Indonesia. Signing Ceremony: 12/7/2018.	23.07.2018	22.07.2023	Faculty of Science, UTM
21.	Interviewer UTM Degree ++: How to Get Yourself Employed	24.11.2018	24.11.2018	Department of Mathematical Sciences, Faculty of Science, UTM
22.	Chair Actuarial Team assigned by UTM-CIAM	01.12.2018	31.12.2019	UTM Centre for Industrial and Applied Mathematics (UTM-CIAM)
23.	Head Advisor GALA Night SSCE X SSCM 2019	01.01.2019	28.02.2019	Department of Mathematical Sciences, Faculty of Science, UTM
24.	Alumni Coordinator	01.01.2019	31.12.2020	Faculty of Science, UTM
25.	Actuarial Analyst Assist on UTM Employees' Benefits Scheme	15.01.2019	10.02.2019	UTM Bursary Office
26.	Head Statistics Panel	12.03.2019	31.07.2022	Department of Mathematical Sciences, Faculty of Science, UTM
27.	Actuarial Analyst Assist on UTM Employees' Benefits Scheme	01.01.2021	31.01.2021	UTM Bursary Office
28.	Director	01.07.2021	30.06.2024	Department of Mathematical Sciences, Faculty of Science, UTM

CONSULTANCY EXPERIENCE

NO	NAME OF CONSULTANCY	ROLE	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Consultant for the 5th ISM International Statistical Conference (ISM-V2021)	Consultant	2,100.00	15.01.2021	19.08.2021	A.J091002.660 0.07077

FACULTY APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	Curriculum Review, Faculty of Science Task Force	Member	01.09.2015	31.08.2016
2.	<i>Karnival Kerjaya Bersama Alumni FS 2016</i> Task Force	Chair	01.04.2016	26.04.2016
3.	<i>JK Hubungan Alumni & Industri dan Kebolehpkerjaan</i>	Chair	01.01.2016	31.12.2017
4.	<i>JK Akademik & Peperiksaan JSM</i>	Member	01.01.2016	31.12.2017
5.	<i>JK Pengurusan JSM</i>	Member	01.01.2016	31.12.2017
6.	<i>Bengkel Semakan Program Roadmap</i> Faculty of Science.	Member	13.07.2017	13.07.2017
7.	<i>JK Inovasi & Komersialisasi FS</i>	Member	15.08.2017	31.12.2018
8.	Curriculum Review, Department of Mathematical Sciences, Faculty of Science Task Force	Member	01.06.2019	31.07.2022
9.	International Symposium on Advanced Statistical Data Analysis and Operational Research 2020 (i-Adore2020)	Assistant Chair	09.08.2020	08.12.2020

UNIVERSITY APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	<i>Kem Matematik Sekolah Berasrama Penuh SDAR & STF</i> programme.	Committee Member	27.03.2009	29.03.2009
2.	<i>Jawatankuasa Pakar Bidang Matematik, Projek Ensiklopedia Sains & Teknologi (EST)</i> , UTM-DBP, 2 nd Phase.	Committee Member	01.08.2009	01.08.2010
3.	Graduate Student Attribute (Problem Solving) Task Force	Committee Member	17.11.2009	30.04.2010
4.	BTSA (<i>Beban Tugas Staf Akademik – Academis Staff Workload</i>) Task Force	Committee Member	03.09.2019	31.12.2020

NATIONAL APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	<i>Karnival Pengajian Tinggi Negara “Jom Masuk IPT”</i> 2016, Zone 4, Kota Kinabalu, Sabah organized by Ministry of Higher Education	UTM Representative	05.03.2016	06.03.2016
2.	<i>Program 360 Biodi Education J-Biotech di Taman Negara Endau-Rompin bersama J-Biotech</i>	Committee Member	28.05.2016	31.05.2016
3.	AIC Conference Proceeding for the 23rd National Symposium on Mathematical Sciences (SKSM23)	Article Reviewer	27.03.2016	10.10.2016
4.	Qalb-Based Leadership 2017 workshop by Akademi Pengajian Tinggi (AKEPT)	Participant	17.04.2017	18.04.2017

5.	Malaysian Journal of Fundamental and Applied Sciences for International Seminar on Mathematics in Industry 2017 (ISMI2017)	Article Reviewer	01.11.2017	30.01.2018
6.	<i>Bengkel Kerja Penyediaan Penilai Buku Teks Kurikulum Standard Sekolah Menengah (KSSM) Tahun 2018 Zon Selatan</i> Organized by Text Book Section, Ministry of Education	Mathematics Chair	13.11.2018	15.11.2018
7.	Journal of Statistical Modeling and Analytics (JOSMA), Institute of Statistics Malaysia (ISM)	Associate Editor	01.01.2021	31.12.2022
8.	Audit & Program Review of Bachelor of Science with Honours (Statistics), Faculty of Science & Technology, Universiti Kebangsaan Malaysia	External Reviewer	15.11.2021	14.02.2021

INTERNATIONAL APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	1 st Institut Statistik Malaysia (ISM) International Statistics Conference 2012 (ISM-1), held in Persada International Convention Centre, Johor Bahru	Committee Member	04.09.2012	06.09.2012
2.	1 Article in Journal of Modern Applied Statistical Methods (Scopus)	Article Reviewer	01.11.2016	30.11.2016
3.	International Seminar on Mathematics in Industry (ISMI) 2017	Committee Member	01.08.2017	02.08.2017
4.	International Seminar on Mathematics in Industry & International Conference on Theoretical and Applied Statistics 2018 (ISMI-ICTAS18)	Abstract Reviewer	22.05.2018	29.05.2018
5.	International Seminar on Mathematics in Industry & International Conference on Theoretical and Applied Statistics 2018 (ISMI-ICTAS18)	Committee Member	04.09.2018	06.09.2018
6.	Malaysian Journal of Science, Vol. 38, Special Issue (2) 2019 for International Seminar on Mathematics in Industry & International Conference on Theoretical and Applied Statistics 2018 (ISMI-ICTAS18)	ISMI-ICTAS18 Editor	04.09.2018	06.09.2018
7.	2 Articles in Sains Malaysiana (WOS)	Article Reviewer	01.11.2019	31.12.2019
8.	2 Articles in AIP Proceedings for the 5th ISM International Statistical Conference (Scopus)	Article Reviewer	17.07.2021	17.08.2021
9.	The 5th Institute of Statistics Malaysia (ISM) International Statistical Conference	Chair	17.08.2021	19.08.2021

SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1.	<i>Bengkel Kerja Penyediaan Penilai Buku Teks Kurikulum Standard Sekolah Menengah (KSSM) Tahun 2018 Zon Selatan</i>	KSL Hotel & Resort, Johor Bahru	13.11.2018	15.08.2018
2.	<i>Desktop Audit Program Ijazah Sarjana Muda Sains (Statistik), UKM</i>	Zoom Meeting	25.11.2021	25.11.2021
3.	<i>Bengkel Pembangunan Modul Microcredential FS 2021</i>	Hotel Trove, Johor Bahru	09.12.2021	10.12.2021
4.	Board of Study 2021 Faculty of Science Workshop	UTM Hotel & Residence, Kuala Lumpur	17.12.2021	18.12.2021

RESEARCH ACTIVITIES

NO	NAME OF GRANT	ROLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	START DATE	END DATE	VOTE NO
1.	Modelling Missingness Mechanism Using Logit Model	Member	Others	FRGS	62,000	1.11.08	31.10.10	78332
2.	Modeling And Predictive Performance of Survivorship in The Presence of Varying Risks and Repeatedly Recorded Multiple Covariates With Missingness	Leader	Others	FRGS	61,000	1.1.11	30.6.13	4F004
3.	Bayesian Survival Mixture Models in the Existence of Covariates Using Frailty Models	Leader	UTM	RUG Tier 2	28,000	1.5.12	30.4.13	05J39
4.	Stochastic Modeling of ADHD Research in Malaysia	Member	UTM	RUG Tier 1	20,000	1.7.14	30.9.15	08H60
5.	Prototype Development of Human Respiratory Carbon Dioxide (CO ₂)	Member	Others	PRGS	74,000	1.12.15	30.11.17	4L669

	Measurement Tool for Monitoring Asthmatic Condition							
6.	Kolokium Kebangsaan Pendidik Sains, Teknologi, Kejuruteraan dan Matematik (KKPSTEM) 2016 Peringkat Negeri Johor	Member	UTM	Networking Grant	13,200	3.7.16	12.11.16	4X199
7.	Identifying Determinants of Neonatal Death at A Malaysian Public Neonatal Intensive Care Unit	Leader	UTM	RUG Tier 2	20,000	1.10.16	30.9.17	11J91
8.	CTPS Skills Among Malaysian Graduates	Member	UTM	RUG Flagship	20,000	1.5.17	30.4.17	03G49
9.	Application of Log Linear Model to Malaria Disease Infection in Malaysia	Member	UTM	RUG Tier 2	20,000	1.7.17	30.6.18	14J66
10.	Statistical Analysis of Intercropping Black Pepper Yield	Member	UTM	RUG Tier 2	20,000	1.7.17	30.6.18	13J75
11.	Ridge-Based Biclustering Model in Profiling Collinear Expression Data For Infectious Diseases Studies	Member	UTM	UTM FR	85,000	1.1.20	30.6.23	21H70
12.	New Estimation Method of Hydraulic Conductivity Incorporating Uncertainty in Heterogeneous Aquifer	Member	UTM	UTM FR	70,000	1.1.20	30.6.22	21H21
13.	Robust multinomial logistic regression	Leader	UTM	UTM ER	20,000	1.10.21	30.9.23	20J02

	for high-dimensional data							
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TEACHING ACTIVITIES

UNDERGRADUATE

YEAR OF SEMESTER	SEM (1/2)	SUBJECT CODE	NAME OF SUBJECT	CREDIT HOUR	SECTION
20052006	2	SSE2193	Engineering Statistics	3	65
20062007	1	SSE2193	Engineering Statistics	3	17
20062007	1	SSE2193	Engineering Statistics	3	50
20062007	1	SSE2193	Engineering Statistics	3	51
20062007	2	SSE2193	Engineering Statistics	3	18
20062007	2	SSE2193	Engineering Statistics	3	53
20072008	1	SSH1113	Statistics 1	3	01
20072008	1	SSM3783	Mathematical Statistics	3	01
20072008	2	SSE2193	Engineering Statistics	3	15
20072008	2	SSH3143	Decision Theory	3	01
20082009	1	SSE2193	Engineering Statistics	3	39
20082009	1	SSE2193	Engineering Statistics	3	50
20082009	2	SSE2193	Engineering Statistics	3	18
20082009	2	SSE2193	Engineering Statistics	3	53
20082009	2	SSH3863	Financial Mathematics	3	01
20092010	1	SSH1113	Statistics 1	3	11
20092010	1	SSH1113	Statistics 1	3	12
20092010	2	SSE2193	Engineering Statistics	3	50
20092010	2	SSE2193	Engineering Statistics	3	31
20092010	2	SSH3143	Decision Theory	3	01
20102011	1	SSE2193	Engineering Statistics	3	36
20102011	1	SSE2193	Engineering Statistics	3	32
20102011	1	SSE2193	Engineering Statistics	3	17
20102011	2	SSH3863	Financial Mathematics	3	01
20112012	1	SSE2193	Engineering Statistics	3	15
20112012	1	SSE2193	Engineering Statistics	3	16
20112012	1	SSE2193	Engineering Statistics	3	31
20112012	2	SSH3143	Decision Theory	3	01
20112012	2	SSE2193	Engineering Statistics	3	17
20122013	1	SSH3143	Decision Theory	3	01
20122013	2	SSCE2193	Engineering Statistics	3	34
20122013	2	SSCE2193	Engineering Statistics	3	30
20122013	2	SSCE2193	Engineering Statistics	3	32
20132014	1	SSCM1103	Statistics	3	12
20132014	1	SSCM3143	Decision Theory	3	01

20132014	2	SSCE2193	Engineering Statistics	3	47
20142015	2	SSCM4863	Financial Mathematics	3	01
20142015	2	SSCE2193	Engineering Statistics	3	34
20142015	2	SSCE2193	Engineering Statistics	3	35
20152016	1	SSCM1103	Statistics	3	11
20152016	1	SSCM1103	Statistics	3	12
20152016	1	SSCM3143	Decision Theory	3	01
20152016	2	SSCM4863	Financial Mathematics	3	01
20162017	1	SSCM3143	Decision Theory	3	01
20162017	2	SSCM4863	Financial Mathematics	3	01
20172018	1	SSCE2193	Engineering Statistics	3	15
20172018	1	SSCE2193	Engineering Statistics	3	16
20172018	1	SSCE2193	Engineering Statistics	3	17
20172018	1	SSCE2193	Engineering Statistics	3	18
20182019	1	SSCM1103	Statistics	3	01
20182019	1	SSCM1103	Statistics	3	04
20182019	1	SSCM1103	Statistics	3	12
20182019	2	SSCE2193	Engineering Statistics	3	11
20182019	2	SSCE2193	Engineering Statistics	3	35
20182019	2	SSCE2193	Engineering Statistics	3	45
20192020	1	SSCM1103	Statistics	3	01
20192020	1	SSCM1103	Statistics	3	05
20192020	1	SSCM2103	Mathematical Statistics	3	02
20192020	2	SSCE2193	Engineering Statistics	3	31
20192020	2	SSCE2193	Engineering Statistics	3	41
20192020	2	SSCE2193	Engineering Statistics	3	61
20202021	1	SSCE2193	Engineering Statistics	3	21
20202021	1	SSCE2193	Engineering Statistics	3	41
20202021	1	SSCM2103	Mathematical Statistics	3	01
20202021	2	SSCE2193	Engineering Statistics	3	34
20202021	2	SSCE2193	Engineering Statistics	3	43
20212022	1	SSCM1002	Introduction to Industrial Mathematics Programme	3	01
20212022	1	SSCM1012	Introduction to Mathematics Programme	3	01
20212022	1	SSCM1103	Statistics	3	01
Since 1999		SSU3902/ SSCU4902 & SSU3904/ SSCU4904	UG Project 1 & 2	2 + 4 cr each	-
Since 2007		SSU3905/ SSCU3915	Industrial/Research Training	5 cr each	-
				TOTAL CREDIT HOUR	216 hours

POSTGRADUATE

YEAR OF SEMESTER	SEM (1/2)	SUBJECT CODE	NAME OF SUBJECT	CREDIT HOUR	SECTION
20082009	1	MSM1413	Mathematical Statistics	3	01
20092010	1	MSM1413	Mathematical Statistics	3	01
20212021	2	MSCM1033	Research Methodology	3	01
				TOTAL CREDIT HOUR	9 hours

SUPERVISION

PHD STUDENTS

Main Supervisor

No	Name	Status (Graduated/ Ongoing)	Title	Date
1.	Chin Wan Yoke	Graduated	Joint Survival and Longitudinal Models with Missing Data	2016
2.	Amusan Ajitoni Simeon	Graduated	Cox Proportional Hazard Model with Cure Fraction in the Presence of a Single Covariate and Frailty	2018
3.	Noraslinda Mohamed Ismail	Graduated	Survival Analysis of Time-to-First Birth after Marriage in Nigeria using Three Parameter Inverse Gaussian Distribution	2019
4.	Nurliyana binti Juhan	Graduated (GOT)	Statistical Modelling of Cardiovascular Disease Patients using Bayesian Approaches	2020
5.	Nur Idayu binti Ah Khaliluddin	Graduated	Modified Mortality Rates Modelling	2021
6.	Zahraddeen Abdullahi	On going	Time-to-event data modelling with frailty terms	2021
7.	Demudu A/L Naganaidu	On going	Robust Multinomial Logistics Regression for Highdimensional Data	2021
8.	Muhammad Mustapha	On going	Parametric Failure Time Modelling	2021

MASTER STUDENTS

Master by Research (Main Supervisor)

No	Name	Status (Graduated/Ongoing)	Title	Date

1.	Nor Hidayah binti Ismail	Graduated	Maximum Likelihood Estimation, EM-Algorithm and Copula for Burr Type III and XII Distributions	2013
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Master by Research (Co Supervisor)

No	Name	Status (Graduated/Ongoing)	Title	Date
1.	Ruzaini Zulhusni bin Puslan	Ongoing	Modelling COVID-19 Disease in Peninsular Malaysia	2021

Master by Mixed Mode (Dissertation: Main Supervisor)

No	Name	Status (Graduated/Ongoing)	Title	Date
1.	Mohd. Fahmi Zahari	Graduated	Longitudinal Model of HbA1c Using Bayesian Approach.	2006
2.	Noryanti Muhammad	Graduated	Incomplete Survival Data Analysis Using Naïve EM-algorithm.	2007
3.	Nur Intan Syafinaz Ahmad	Graduated	Standard Survival Models with Two and Three –parameter Weibull Distributions: A Comparative Study.	2009
4.	Nor Afiah Nor Hanafi	Graduated	A Comparative Study of Kernel and Kaplan-Meier Methods in estimating Hazard Functions.	2010
5.	Oh Yit Leng	Graduated	A comparative study of Maximum Likelihood and Bayesian estimation approaches for Gamma frailty mixture model in the absence of covariates.	2011
6.	Norilyani Rezali	Graduated	Investigation of advanced estimation approaches in survival data modeling.	2012
7.	Nor Liyana Sabari	Graduated	Semi-parametric proportional hazards model in analyzing the effects on time-to-employment amongst Mathematics graduates.	2014
8.	Heirnizah Melati Jamri	Graduated	Modeling the suitability of employment amongst Mathematics graduates using logistic regression.	2014
9.	Nur Syazwani Ramlan	Graduated	Bayesian estimation approach for hierarchical models.	2014

10.	Wan Nurul Ain Wan Marzuki	Graduated	Identifying significant factors of employment using survival modelling approaches.	2017
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Master by Mixed Mode (Dissertation: Co-Supervisor)

No	Name	Status (Graduated/Ongoing)	Title	Date
1.	Ina Nur Hazirah binti Samudin	Graduated	Log Linear Model to Malaria Disease Infection in Malaysia.	2019

UTM POSTGRADUATE EXAMINATION / VIVA

PHD

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1.	Internal Examiner	Ghanim Mhmood Dhafer	Bayesian Fuzzy Kriging Techniques of Spatial Estimation using Mining Field	Viva: 6/1/2014.
2.	First Assessment Examiner	Norshela binti Mohd Noh	Maximizing Oil Refinery Profit Margin	2016
3.	First Assessment Examiner	Nnamani Chibuike Ngene	Improved Robustness of Plaid Models	2016
4.	First Assessment Examiner	Siti Rohani binti Mohd Nor	Hedging Risks: Modelling Stochastic Approach on Mortality Rates	2016
5.	First Assessment Examiner	Norliza binti Adnan	Model Based Clustering in Educational Data	2017
6.	First Assessment Examiner	Muhammad Fadhil bin Marsani	Non-Stationary Extreme Share Return Analysis Using Generalized Lambda Distribution	2017
7.	First Assessment Examiner	Rasvini A/P Rajendran	Game-Theoric Approach in Identifying Epilepsy Symtomatic Patients Requiring Differential Diagnosis	2017
8.	First Assessment Chairman	Rasvini A/P Rajendran	Game-Theoric Approach in Identifying Epilepsy Symtomatic Patients Requiring Differential Diagnosis	03.04.2017
9.	Internal Examiner	Khoo Li Peng	Analysis of Outliers and Heteroscedastic Errors in Multiple Linear Regression	Viva: 3/10/2017
10.	First Assessment Chairman	Norliza binti Adnan	Model Based Clustering in Educational Data	12.11.2017
11.	First Assessment Chairman	Ayuna Sulekan	Spatial Modelling of Rainfall Data Using Geographically Weighted Regression Approach	28.05.2018

12.	Internal Examiner	Siti Rohani binti Mohd Nor	Multi-Population Mortality Model in a State Space Framework	Viva: 8/10/2018
13.	Internal Examiner	Kong Ching Yee	Modelling the Dependence Structure between Two Rainfall Stations using a Bivariate Copula Model	Viva: 31.12.2018
14.	First Assessment Examiner	Suad Abdeen Helaly Osman	Developing a Loss Distribution Approach based on Infinite Mixture Model to Measure Operational Risks in Aviation Industry	2019
15.	First Assessment Chairman	Nurmarni Athirah Abdul Wahid	Modeling the Impact of Climate Change on HFMD Disease in Malaysia	10.12.2019

MASTER BY RESEARCH

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1.	Internal Examiner	Mohammad Sabry Abo Al-Mash	Handling Multicollinearity and Outliers in Linear Regression Model using Robust Weighted Principal Component Analysis Method	2015
2.	Internal Examiner	Ilya Farhana Zulkeflee	Modelling and Forecasting Flight Delay at Kuala Lumpur International Airport (KLIA) using Hybrid ARIMA-GARCH Model	2019
3.	Internal Examiner	Azfar Hilmi Baharudin	Multivariate modelling	2019

MASTER BY MIXED-MODE

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1.	Chairman of MSC/MSCJ Viva/Presentation Panels	Nuraisyah Mohamed Daud	Finite Difference Method for Numerical Soliton of a Generalized Burgers-Huxley Equation	15.03.2017
2.	Chairman of MSC/MSCJ Viva/Presentation Panels	Aiman Syazman bin Muhammad Zamri	Statistical Analysis of Rainfall Data in the Southern Region of Peninsular Malaysia	23.10.2018

PUBLICATIONS

JOURNAL

No	ARTICLE TITLE	JOURNAL TITLE	ISSN	Vol.	Issues	Page s	Year	IF	Type	Category	Quartile	Category Author
1.	Statistical Approach on grading the student achievement via normal mixture modeling	Jurnal Teknologi	0127-9696	45	C	67-84	2006		Journal Article Non-Citation Indexed	UTM		Co-Author
2.	Cross-sectional and Longitudinal Approaches in a Survival Mixture Model	MATEMATIKA	0127-9602	24	2	225-236	2008		Journal Article Non-Citation Indexed	UTM		Individual Author
3.	Analysis of Repeated Measures via simulation	Discovering Mathematics		34	1	1-7	2011		Journal Article Non-Citation Indexed	Non-UTM		
4.	Estimating Proportional Hazards Model using Frequentist and Bayesian Approaches	Malaysian Journal of Fundamental & Applied Sciences	22895981	8	2	73 - 82	2012		Journal Article Non-Citation Indexed	Non-UTM		Co-Author
5.	Frailty Additive and Multiplicative Gamma Polygonal in Survival Data Analysis	International Journal of Applied Mathematics & Statistics	09731377	44	14	128 - 139	2013		SCOPUS	Article/ Review		Co-Author
6.	Proportional Odds Model affiliate with Random-Effect Longitudinal Model	Jurnal Teknologi	0127-9696	63	2	15 - 20	2013		SCOPUS	Article/ Review	Q2	Co-Author
7.	Survival Data Analysis Using Additive and Multiplicative Gamma Polygonal Hazards Function	MATEMATIKA	0127-9602	29	1B	117 - 127	2013		Journal Article Non-Citation Indexed	UTM		Co-Author

8.	A Comparative Study of the Estimation Methods on Frailty Mixture Survival Model	MATEMATIKA	0127-8724	0	29	161-167	2013		Journal Article Non-Citation Indexed	UTM		UTM First Author
9.	Multiplicative Piecewise Gamma in Survival Data Analysis	Jurnal Teknologi	0127-9696	70	1	125 - 129	2014		Web of Science	Article/ Review	Q2	Co-Author
10.	Survival Modeling of First Birth Interval after Marriage	Life Science Journal	1097-8135	11	7	299 - 307	2014		SCOPUS	Article/ Review	Q4	UTM First Author
11.	Estimation of 2- and 3-parameter Burr Type XII distribution using EM algorithm	Malaysian Journal of Fundamental & Applied Sciences	22895981	10	2	74 - 81	2014		Web of Science	UTM		UTM First Author
12.	Discrimination between Lifetime Distributions with Ratios of Maximized Likelihoods	Research Journal of Applied Sciences	1815932X	10	7	287-293	2015		SCOPUS	Article/ Review		UTM First Author
13.	A Comparative Analysis on the Performance of Lehman Type II Inverse Gaussian Model and Standard Inverse Gaussian Model in Terms of Flexibility	Global Journal of Pure and Applied Mathematics	09731768	12	5	4535 - 4552	2016		SCOPUS	Article/ Review		UTM First Author
14.	Gender differences in mortality among ST elevation myocardial infarction patients in Malaysia from 2006 to 2013	Annals of Saudi Medicine	0256-4947	38	1	481-487	2018	0.808	Web of Science	Article/ Review	Q3	UTM First Author
15.	Identifying Risk Factors for Female Cardiovascular Disease Patients in	MATEMATIKA: Malaysian Journal of	0127-9602	34	Speacial Issue	15-23	2018		Web of Science	Article/ Review	Q4	UTM First Author

	Malaysia: A Bayesian Approach	Industrial and Applied Mathematics										
16.	Risk Factors of Cardiovascular Disease Among ST-Elevation Myocardial Infarction Male Patients in Malaysia from 2006 To 2013	Jurnal Teknologi	0127-9696	8	3	145-150	2019		Web of Science	Article/ Review	Q2	Corresponding Author
17.	On Estimate of Malaysian Mortality Rates Using Interpolation Methods	MATEMATIKA: Malaysian Journal of Industrial and Applied Mathematics	0127-9602	35	2	177-186	2019		Web of Science	Article/ Review	Q4	UTM First Author
18.	Mixture Cure Rate Modelling Approach to Cure Rate Estimation: A Mini Review	Technology Reports of Kansai University	04532198	62	9	5395 - 5405	2020		Journal Article Non-Citation Indexed	Non-UTM		Corresponding Author
19.	A Comparison Between Bayesian and Frequentist Approach in the Analysis of Risk Factors for Female Cardiovascular Disease Patients in Malaysia	Akademi Sains Malaysia (ASM) Science Journal	18236782	13	0	1-7	2020		SCOPUS	Article/ Review		UTM First Author
20.	Risk Factors of Mortality Among Male Patients with Cardiovascular Disease in Malaysia Using Bayesian Analysis	Iranian Journal of Public Health	22516093	49	9	1642 - 1649	2020	1.291	Web of Science	Article/ Review	Q3	UTM First Author

21.	Priors comparison in bayesian models of risk factor of Malaysian coronary artery disease male patients.	Journal of Physics	17426 588	1988	1	1 – 8	2021		Scopus	Article/ Review		UTM First Author
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1. **Zarina Mohd Khalid**, Nurain Huzaifah & Noraslinda Mohamed Ismail. Comparing the Effectiveness of Online and Face-to-Face Teaching and Learning approaches on Student Performance using Nonparametric Methods, *Proceedings of the 5th ISM International Statistical Conference (ISM-V), 17-19 Aug 2021*, Johor Bahru. AIP Conference Proceedings. **Scopus**. *Accepted*.
2. Zahraddeen Abdullahi & **Zarina Mohd Khalid**. Impact of Frailty in Cure Rate Models: A Systematic Review. *Proceedings of the 5th ISM International Statistical Conference (ISM-V), 17-19 Aug 2021*, Johor Bahru. AIP Conference Proceedings. **Scopus**. *Accepted*.
3. Ruzaini Zulhusni bin Puslan, Jamaludin Suhaila, **Zarina Mohd Khalid**. Modelling COVID-19 Disease in Peninsular Malaysia Using Logistic Regression, *Proceedings of the 5th ISM International Statistical Conference (ISM-V), 17-19 Aug 2021*, Johor Bahru. AIP Conference Proceedings. **Scopus**. *Accepted*.
4. Oh Yit Leng & **Zarina Mohd Khalid**. A comparative study of mixture cure models with covariates, *Proceedings of the 3rd ISM International Statistical Conference (ISM-III), 9 – 11 Aug 2016, Kuala Lumpur*, AIP Conference Proceedings 1842, 030011 (2017); <https://doi.org/10.1063/1.4982849> (ISBN: 978-0-7354-1512-6). **Scopus**.
5. Chin Wan Yoke and **Zarina Mohd Khalid**. Comparison of multiple imputation and complete-case in a simulated longitudinal data with missing covariate. *Proceedings of the 21st National Symposium on Mathematical Sciences (SKSM21), 6-8 Nov 2013, Penang*, AIP Conference Proceedings 1605, 918 (2014); <https://doi.org/10.1063/1.4887712> (ISBN: 978-0-7354-1241-5). **Scopus**.
6. Nor Hidayah Ismail & **Zarina Mohd Khalid**. EM Algorithm in estimating the 2- and 3-parameter Burr Type III distributions, *Proceedings of the 21st National Symposium on Mathematical Sciences (SKSM21), 6-8 Nov 2013, Penang*, AIP Conference Proceedings 1605, 881 (2014); <https://doi.org/10.1063/1.4887706> (ISBN: 978-0-7354-1241-5). **Scopus**.

OTHER PROCEEDINGS/CONFERENCE

1. Nurzaira Syakirah Mohd Zaidi & **Zarina Mohd Khalid**, *Modelling Used Car Price Using Multiple Linear Regression*, Proceedings of Final Year Project Symposium 2018 (Industrial Mathematics SSCM Session 2017/2018), pp. 407-417.
2. Nur Zulaika Zainalabidin & **Zarina Mohd Khalid**, *Risk Factors Influencing Academic Performance of a Mathematical Course in a Public University Using Multiple Linear Regression*, Proceedings of Final Year Project Symposium 2018 (Industrial Mathematics SSCM Session 2017/2018), pp. 326 – 337.
3. Nik Syazana Nik Zahari & **Zarina Mohd Khalid**, *Statistical Modelling of SOCSO Claim*, Proceedings of Final Year Project Symposium 2019, Department of Mathematical Science, UTM, pp. 113-122
4. **Zarina Mohd Khalid**, Wan Rukaida Wan Abdullah & Norhaiza Ahmad, *UNAND Students Exposed to Learning, Teaching and Research Environment at Faculty of Science UTM*, UTM Newshub, Dec. 2019
5. Chaw Yen Peng & **Zarina Mohd Khalid**, *Determinants of Inflation in Malaysia Using Multiple Linear Regression*, Proceedings of Science and Mathematics, Vol. 2, 2021, pp 49 – 58. Faculty of Science, UTM.
6. Nurain Huzaifah Yusniman & **Zarina Mohd Khalid**, *Effect of Different Learning Methods on Students' Performances in Statistics*, Proceedings of Science and Mathematics, Vol. 3, 2021, pp 63 – 72. Faculty of Science, UTM.

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1. **Zarina Mohd Khalid**, *Robust Regression Methods: Merits of the Approaches and Simulation by S-PLUS*, Master of Science Dissertation, University of Warwick, England, UK (1998).
2. **Zarina Mohd Khalid**, *Survival Modelling for Retinopathy in Type I Diabetes Mellitus*, PhD Thesis, University of Kent, England, UK (2005).

ORIGINAL BOOK

1. Fadhilah Yusof, Zalina Mohd Daud, Maizah Hura Ahmad, Robiah Adnan, **Zarina Mohd Khalid**, Arifah Bahar & Norhaiza Ahmad, *Basic Statistics for Sciences and Education*, Prentice Hall, (2009). ISBN: 978-967-349-033-2
2. **Zarina Mohd Khalid**, Norazlina Ismail, Noraslinda Mohamed Ismail, *et al.*, *Statistics for Engineers*, UTM Press, (2019). ISBN: 978-983-52-1523-0
3. Shariffah Suhaila S. Jamaludin, Noraslinda Mohamed Ismail, Fadhilah Yusof, **Zarina Mohd Khalid**, *et al.*, *Statistical Tables for Science and Engineering Students*, MYHIMS Solutions PLT, (2019). ISBN: 978-967-17423-0-3

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1. Noraslinda Mohamed Ismail, **Zarina Mohd Khalid** & Norhaiza Ahmad, Proportional Hazards Model using Frequentist and Bayesian Approaches, A book chapter in *Statistical Modelling in Industrial and Applied Mathematics*, UTM Press. 2014, Pages 19–44. (ISBN 978-983-52-0991-8).
2. **Zarina Mohd Khalid** & Chin Wan Yoke, Random-Effects Longitudinal Model, A book chapter in *Statistical Modelling in Industrial and Applied Mathematics*, UTM Press. 2014, Pages 89-119. (ISBN 978-983-52-0991-8).

ENSIKLOPEDIA SAINS DAN TEKNOLOGI (JILID MATEMATIK)

1. Zarina Mohd Khalid, *Korelasi*, DBP & UTM (2005), pp. 227 – 228.
2. Zarina Mohd Khalid, *Penganggar*, DBP & UTM (2005), pp. 308 – 309.
3. Zarina Mohd Khalid, *Regresi Linear*, DBP & UTM (2005), pp. 377 – 378.
4. Zarina Mohd Khalid, *Sampel*, DBP & UTM (2005), pp. 385 – 387.
5. Zarina Mohd Khalid, *Taburan Normal*, DBP & UTM (2005), pp. 437 – 439.
6. Zarina Mohd Khalid, *Taburan T*, DBP & UTM (2005), pp. 439 – 440.
7. Zarina Mohd Khalid, *Varians*, DBP & UTM (2005), pp. 487 – 488.

PLENARY/CHAIRPERSON/ORAL POSTER PRESENTER/KEYNOTE ADDRESS / INVITED GUEST SPEAKER

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1.	Invited Speaker	Clinical Research Centre (CRC) Continuous Medical Education	24.02.2015	Hospital Sultan Ismail
2.	Invited Speaker	International Seminar International Seminar on Mathematics in Industry (ISMI) 2017	02.08.2017	Pulai Spring Resort
3.	Invited Speaker	FS Future Ready Educators (FREE) Week 2020	28.09.2020	UTM
4.	Invited Speaker	International Symposium on Advanced Statistical Data Analysis and Operational Research 2020 (i-Adore2020)	08.12.2020	UTM
5.	Invited Speaker	FS Future Ready Educators (FREE) Week 2021	30.06.2021	UTM
6.	Invited Speaker	The 5 th ISM International Statistical Conference (ISM-V2021)	17.08.2021 – 19.08.2021	Johor Bahru

PROFESSIONAL SERVICES

Consultation and Training

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION	TOTAL INCOME GENERATED (RM)
1.	Consultant	The 5th ISM International Statistical Conference (ISM-V2021)	15.01.2021 – 19.08.2021	UTM	2,100.00

Commercialisation

NO	ROLE	NAME OF PRODUCT COMMERCIALISATION	DATE	TOTAL INCOME GENERATED (RM)
1.	Author	Statistical Table for Science and Engineering Students	2019 - Aug 2021	16,166.50

Copyright

NO	NAME OF COPYRIGHT	STATUS OF COPYRIGHT	
1.	Statistical Table for Science and Engineering Students	Commercial	IP/CR/2018/0125

