

CURRICULUM VITAE



MOHD KHAIRUL BAZLI BIN MOHD AZIZ

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MALAYSIA

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ACADEMIC QUALIFICATION

- **Doctor of Philosophy (Mathematics)**, UTM, 2017
Thesis Title: Optimization of Rain Gauge Network in Johor Using Hybrid Particle Swarm Optimization – Simulated Annealing
- **Masters of Science (Mathematics)**, UTM, 2010
Thesis Title: Stochastic Modeling of the C.Acetobutylicum and Solvent Productions in Fermentation
- **Bachelor of Science (Industrial Mathematics)**, UTM, 2008
- Sijil Pelajaran Malaysia (SPM), MRSM Taiping, 2002

PREVIOUS APPOINTMENT

- Senior Lecturer, Universiti Malaysia Pahang. 17 Mei 2017 – current
- Lecturer, TATI University College, Terengganu. 2012 – 15 Jan 2017
- Mathematics Lecturer, UiTM Dungun Campus. 2010-2012

NICHE AREA

- Rainfall Modelling
- Operational Research
- Applied Statistics
- Optimization

ADMINISTRATIVE DUTIES

- Committee, 3rd International Conference on Engineering Technology (ICET) TATIUC, 2016.
- Committee, TATIUC Research, Innovation & Exhibition (TARIE), 2015.
- Head of Research Cluster, Applied and Social Science, TATIUC, 2015 – present.
- Author of Mathematics Modules for Degree and Diploma.

EXTRACURRICULAR ACTIVITIES

- Committee, Makan Malam Bersama Canselor Sempena Majlis Konvokesyen TATIUC Kali ke-10, 2016.
- Representative, Pameran Kaunter Pendaftaran Terbuka Pelajar Lulusan SPM 2015, TATIUC, 2016.
- Committee, Kerjasama Pendidikan TATIUC dengan Kolej Ketengah, TATIUC, 2016
- Committee, Education Talk, TATIUC, 2015.
- Representative, Pameran Kaunter Pendaftaran Terbuka Pelajar Lulusan SPM 2013, TATIUC, 2014.
- Committee, Education Talk, TATIUC, 2014.
- Committee, Gerai Pameran Hari Terbuka sempena Majlis Konvokesyen, TATIUC, 2014.
- Secretariat, Hari Terbuka Pesta Konvokesyen, 2014.
- Committee, Program Memasak Bubur Asyura Inter Fakulti, TATIUC, 2013.

SUBJECT TAUGHT

Universiti Malaysia Pahang, Malaysia, 2017 – Present

1. Degree

- Applied Statistics (BUM 2143)

TATI University College, Terengganu ,2012- Present

1. Degree

- Algebra (BGE 1123)
- Discrete Mathematics (BGE 1143)
- Calculus (BGE 1133)

2. Diploma

- Mathematics I (DGE 1113)
- Mathematics II (DGE 2123)

UITM Dungun Campus, Terengganu 2010-2012

1. Diploma

- Introduction to Statistics (QMT 181/212/216)

RECENT SELECTED PUBLICATIONS

Conferences

1. Presenter. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. "Optimal Rain Gauges Network Using Geostatistics And Hybrid Particle Swarm-Simulated

- Annealing Optimization”, 4th Int. Conf. on Science, Engineering & Environment (SEE), Nagoya, Japan, 12 – 14 November, 2018.
2. Author. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. (2016). “Rain gauges network optimization in southern peninsular Malaysia”, 18th International Conference on Sustainable Water Resources Management (ICSWRM) 2016, London, United Kingdom, 25-26 February, 2016.
 3. Presenter. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. (2015). “Optimal design of rain gauge network in johor by using geostatistics and particle swarm optimization”, Fifth International Conference on Geotechnique, Construction Materials and Environment (GEOMATE) 2015, Osaka, Japan, 16 – 18 November 2015.
 4. Presenter. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. “Rainfall network optimization in Johor”. 2nd International Science Postgraduate Conference 2014, Ibnu Sina Institute For Fundamental Science Studies, Universiti Teknologi Malaysia, 10th – 12th March 2014.
 5. Presenter. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A.. “Redesigning rain gauges network in Johor using Geostatistics and Simulated Annealing”. The 2nd ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II) MS Garden Hotel, Kuantan, Pahang DM. 12-14 Ogos 2014.
 6. Presenter. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. “The use of Maximal Covering Location Problem (MCLP) in location rainfall rain gauges”, The 8th International Symposium On Digital Earth (ISDE) 2013, Borneo Covention Centre, Kuching, Sarawak, 26 – 29 August 2013.
 7. Presenter. Stochastic Power Law Logistic Model for the Growth of *C.acetobutylicum* in Sago Starch Fermentation. 5th Asian Mathematical Conference, 2009 Malaysia.
 8. Presenter. Stochastic Growth of the *C.acetobutylicum*. Second International Conference and Workshop on Basic and Applied Science and Regional Annual Fundamental Science Seminar 2009 (ICORAFSS 2009), Johor Bahru, Malaysia.
 9. Presenter. Stochastic Power Law Logistic Model for the Growth of *C.acetobutylicum* in Sago Starch Fermentation. *Simposium Kebangsaan Sains Matematik ke-16*. 2008 Kelantan, Malaysia.

Publications

1. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. (2016). “Rain gauges network optimization in southern peninsular Malaysia”, World Academy of Science, Engineering and Technology International Journal of Environmental and Ecological Engineering Vol:3, No:2, 2016.
2. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. Optimal design of rain gauge network in johor by using geostatistics and particle swarm optimization. International Journal of GEOMATE, Sept., 2016, Vol. 11, Issue 25, pp. 2422-2428. Geotec., Const. Mat. & Env., ISSN: 2186-2982 (Print), 2186-2990 (Online), Japan.
3. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. (2015, February). Redesigning rain gauges network in Johor using geostatistics and simulated annealing. In *AIP Conference Proceedings* (Vol. 1643, No. 1).
4. Aziz, M. K. B. M., Yusof, F., Daud, Z. M., Yusop, Z., & Kasno, M. A. (2015). “Optimal design of rain gauge network in johor by using geostatistics and particle swarm

- optimization”, Proceedings Of Fifth International Conference – Geomate 2015, Geotechnique, Construction Materials And Environment Osaka, Japan, 16-18 NOVEMBER, 2015.
5. Mohd Khairul Bazli Mohd Aziz, Arifah Bahar & Madihah Md. Salleh, Haliza Abd. Rahman, Norhayati Rosli. (2009). Stochastic Power Law Logistic Model for the Growth of *C.acetobutylicum* in Sago Starch Fermentation. *5th Asian Mathematical Conference*, 2009 Malaysia.
 6. Mohd Khairul Bazli Mohd Aziz, Arifah Bahar & Madihah Md. Salleh, Haliza Abd. Rahman, Norhayati Rosli. (2009). Stochastic Growth of the *C.acetobutylicum*. *Second International Conference and Workshop on Basic and Applied Science and Regional Annual Fundamental Science Seminar 2009 (ICORAFSS 2009)*, Johor Bahru, Malaysia.
 7. Mohd Khairul Bazli Mohd Aziz, Arifah Bahar & Madihah Md. Salleh. (2008). Stochastic Power Law Logistic Model for the Growth of *C.acetobutylicum* in Sago Starch Fermentation. *Simposium Kebangsaan Sains Matematik ke-16*. 2008 Kelantan, Malaysia.
 8. Norhayati Rosli, Arifah Bahar, Yeak Su Hoe, Haliza Abd. Rahman, Mohd Khairul Bazli Mohd Aziz, Madihah Md. Salleh. (2010). Stochastic Model of Gelatinised Sago Starch to Solvent Production by *C.Acetobutylicum* P262. *The Regional Conference on Statistical Science (RCSS 2010)*.
 9. Norhayati Rosli, Arifah Bahar, Yeak Su Hoe, Haliza Abd. Rahman, Madihah Md. Salleh, Mohd Khairul Bazli Mohd Aziz. (2009). The Performance of Euler-Maruyama and 2-stage SRK in Approximating the Strong Solution of Stochastic Model. *Second International Conference and Workshop on Basic and Applied Science and Regional Annual Fundamental Science Seminar 2009 (ICORAFSS 2009)*, Johor Bahru, Malaysia.
 10. Haliza Abd.Rahman, Arifah Bahar, Norhayati Rosli, Mohd Khairul Bazli Mohd Aziz and Madihah Md. Salleh. (2010). Parameter Estimation of Stochastic Differential Equation : Bayesian Regression Spline. *Journal Original Manuscripts Authored by Mathematicians*, Vol. 3, Number 1, 13-22.
 11. Haliza Abd. Rahman, Arifah Bahar, Mohd Khairul Bazli Mohd Aziz, Norhayati Rosli, Madihah Salleh, Gerhard-Wilhem Weber. Parameter Estimation of Stochastic Logistic Model:Levenberg-Marquardt Method. *MATEMATIKA*, 2009, Volume 25, Number 2, 91–106.

ATTENDED COURSE/SEMINARS

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1. Participant, Pedagogy Workshop, TATIUC, 2016.
 2. Participant, Kolokium Short Term Grant, TATIUC, 2015.
 3. Participant, STG Kolokium, Tatiuc, 2015.
 4. Participant, Seminar Penulisan Jurnal Dan Kertas Cadangan Penyelidikan, TATIUC, 2015.
 5. Participant, Kursus Pengajaran dan Pembelajaran (P&P), TATIUC, 2014.
 6. Participant, Bengkel Pemurnian Modul Matematik, ITC TATIUC, 2014
 7. Participant, Program Kesedaran Penyakit Berjangkit anjuran Pejabat Kesihatan Negeri Terengganu, TATIUC, 2014.
 8. Participant, Bengkel Latihan Pengajaran Dan Pembelajaran (PNP), TATIUC, 2013
 9. Participant, Kursus Team Building, Awana Perhentian Resort, Terengganu, 2013.

COMMUNITY SERVICES

1. Member, PERSAMA, 2015 - present
2. Coordinator & Facilitator. English and Mathematic University Social Responsibility (UCR) Camp with SK TELOK KALONG 2015.

REFERENCES

AP. Dr. Fadhilah binti Yusof
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