Profile Image

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CONTACT

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FACULTY
Fakulti Ekonomi Dan Muamalat

SUPERVISION

	COMPLETED	ONGOING
PhD	3	0
Master	1	1

AREAS OF EXPERTISE

- Numerical Analysis
- Computational Simulation And Modelling
- Mathematics In Computational Finance

ACADEMIC QUALIFICATION

- 2015 **PhD** - Pure Mathematics
- 2010 **Master** - Numerical Analysis
- 2006 **Bachelor** - Mathematics

RESEARCH

1. **ESTABLISHING A NUMERICAL SOLUTION FOR ISLAMIC ASSET PRICES USING A MULTISTEP-WAVELET ALGORITHM TO PROMOTE LONG TERM ECONOMIC STABILITY**
   2024 | GERAN KPT | ON GOING | MAIN RESEARCHER
2. **NUMERICAL APPROACH FOR ANALYZING ASSET PRICES**
   2023 | GERAN ANTARABANGSA | ON GOING | MAIN RESEARCHER
3. **NUMERICAL SOLUTION FOR ISLAMIC PRICING OPTION USING A MODIFIED 2 POINT BLOCK BACKWARDS DIFFERENCE METHOD**
   2017 | GERAN KPT | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. HAAR WAVELET COLLOCATION METHOD FOR SOLVING BOUNDARY LAYER FLOW AND HEAT TRANSFER OVER A MOVING PLATE IN A CARBON NANOTUBES WITH MHD EFFECT

MATHEMATICAL MODELING AND COMPUTING

2025 | JOURNAL | SCOPUS | MAIN AUTHOR

2. THE IMPACT OF CAPITAL MARKET INSTRUMENTS ON MALAYSIAN ECONOMIC GROWTH

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2025 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

3. CASH TRAIL ADVENTURE: GAMIFIED LEARNING FOR NUMERACY, FINANCIAL LITERACY, AND ISLAMIC FINANCE IN THE 4IR ERA

NATIONAL CONFERENCE ON EDUCATION AND NEW LEARNING TECHNOLOGIES 2025 (NCENT 2025)

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

4. EXPLORING FLOW STABILITY: INFLUENCE OF SLIP, SORET, AND DUFOUR ON CU-WATER NANOFLUID OVER A STRETCHING/SHRINKING SHEET

SEMARAK INTERNATIONAL RESEARCH INNOVATION SYMPOSIUM IV

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

5. ASEAN-5 STOCK INDEXES PREDICTIONS USING GEOMETRIC BROWNIAN MOTION

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY (ARASET)

2024 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

6. FINANCIAL LITERACY AND FINANCIAL ANXIETY IN MALAYSIA: DETERMINANTS AND BEHAVIOURAL INFLUENCES

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN EDUCATION AND SOCIETY

2024 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

7. MEAN-VARIANCE ANALYSIS OF SHARIAH AND NON-SHARIAH STOCKS MARKET IN MALAYSIA DURING THE PANDEMIC OF COVID-19

29TH NATIONAL SYMPOSIUM ON MATHEMATICAL SCIENCES (SKSM29)

2024 | PROCEEDING | NON-INDEX | MAIN AUTHOR

8. THE ANALYSIS OF FINANCIAL LITERACY THAT INFLUENCES FINANCIAL ANXIETY AMONG MALAYSIANS

5TH INTERNATIONAL CONFERENCE ON MANAGEMENT, EDUCATION, SOCIAL SCIENCES AND INNOVATION 2024

2024 | PROCEEDING | NON-INDEX | MAIN AUTHOR

9. NUMERICALLY INVESTIGATING THE EFFECTS OF SLIP AND THERMAL CONVECTIVE ON NANOFLUID BOUNDARY LAYER PAST A STRETCHING/SHRINKING SURFACE

MATHEMATICAL MODELING AND COMPUTING

2023 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

10. INTRODUCTION TO BUSINESS MATHEMATICS FOR ECONOMICS AND MUAMALAT: FUNDAMENTAL ALGEBRA

2023 | BOOK | MAIN AUTHOR

11. NUMERICAL ANALYSIS ON CHAOS ATTRACTORS USING A BACKWARD DIFFERENCE FORMULATION

MATHEMATICAL MODELING AND COMPUTING

2022 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

PUBLICATION

12. THE MEDIATION EFFECTS OF CAPITAL STRUCTURE: EVIDENCE FROM MALAYSIAN AND INDONESIAN ECONOMIC SECTORS

MATHEMATICAL STATISTICIAN AND ENGINEERING APPLICATIONS

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

13. STOCK RETURN VOLATILITY DURING SARS AND COVID-19: COMPARISON BETWEEN MALAYSIA AND CHINA'S STOCK MARKETS

THE 5TH INNOVATION AND ANALYTICS CONFERENCE & EXHIBITION (IACE 2021)

2022 PROCEEDING SCOPUS MAIN AUTHOR

14. MINECRAFT-ED: LEARN ADDITIONAL MATHEMATICS VIA AN INTERACTIVE APPROACH

INTERNATIONAL COMPETITION AND EXHIBITION ON COMPUTING INNOVATION (ICE-CINNO) 2022

2022 PROCEEDING OTHER DATABASE MAIN AUTHOR

15. NUMERICAL SOLUTION FOR DUFFING-VAN DER POL OSCILLATOR VIA BLOCK METHOD

ADVANCES IN MATHEMATICS: SCIENTIFIC JOURNAL

2021 JOURNAL SCOPUS MAIN AUTHOR

16. SECURITY ANALYSIS ON ELLIPTIC CURVE CRYPTOSYSTEM BASED ON SECOND ORDER LUCAS SEQUENCE USING FAULTS BASED ATTACK

ADVANCES IN MATHEMATICS: SCIENTIFIC JOURNAL

2020 JOURNAL SCOPUS MAIN AUTHOR

17. NUMERICAL SOLUTION OF NONLINEAR FREDHOLM AND VOLTERRA INTEGRALS BY NEWTON?KANTOROVICH AND HAAR WAVELETS METHODS

SYMMETRY

2020 JOURNAL SCOPUS MAIN AUTHOR

18. ON THE SECURITY COMPARISON OF LUC-TYPE CRYPTOSYSTEMS USING CHOSEN MESSAGE ATTACK

ADVANCES IN MATHEMATICS: SCIENTIFIC JOURNAL

2020 JOURNAL SCOPUS MAIN AUTHOR

19. ON THE UNIFORM SUMMABILITY OF THE FOURIER-LAPLACE SERIES ON THE SPHERE

JOURNAL OF PHYSICS: CONFERENCE SERIES

2020 JOURNAL SCOPUS MAIN AUTHOR

20. NUMERICAL APPROXIMATION OF RICCATI TYPE DIFFERENTIAL EQUATIONS

ASM SCIENCE JOURNAL

2020 JOURNAL SCOPUS MAIN AUTHOR

21. SOLVING DUFFING TYPE DIFFERENTIAL EQUATIONS USING A THREE-POINT BLOCK VARIABLE ORDER STEP SIZE METHOD

JOURNAL OF PHYSICS.: CONFERENCE SERIES

2019 JOURNAL SCOPUS MAIN AUTHOR

PUBLICATION

22. CHAPTER 14 VARIABLE ORDER STEP SIZE ALGORITHM FOR SOLVING SECOND ORDER ODES

EMBRACING MATHEMATICAL DIVERSITY

2019 CHAPTER IN BOOK MAIN AUTHOR

23. SUMMATION BY RIESZ MEANS OF THE FOURIER-LAPLACE SERIES

FILOMAT

2018 JOURNAL WOS MAIN AUTHOR

24. SOLUTION FOR NONLINEAR RICCATI EQUATION BY BLOCK METHOD

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS MAIN AUTHOR

25. A NUMERICAL SOLUTION FOR DUFFING-VAN DER POL OSCILLATORS USING A BACKWARD DIFFERENCE FORMULATION

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS MAIN AUTHOR

26. A BACKWARD DIFFERENCE FORMULATION FOR SOLVING DOFFING-VAN DER POL TYPE OSCILLATORS

INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY

2018 JOURNAL SCOPUS MAIN AUTHOR

27. A NUMERICAL SOLUTION FOR DUFFING-VAN DER POL OSCILLATORS USING A BACKWARD DIFFERENCE FORMULATION

INTERNATIONAL CONFERENCE ON APPLIED SCIENCE AND TECHNOLOGY 2018

2018 PROCEEDING NON-INDEX MAIN AUTHOR

28. ON THE LEBESGUE CONSTANTS OF FOURIER-LAPLACE SERIES BY RIESZ MEANS

JOURNAL OF PHYSICS

2017 JOURNAL WOS MAIN AUTHOR

29. ABSENCE OF LOCALIZATION OF FOURIER-LAPLACE SERIES

AMERICAN INSTITUTE OF PHYSICS (AIP)

2017 JOURNAL SCOPUS MAIN AUTHOR

30. UNIFORM CONVERGENCE OF THE FOURIER-LAPLACE SERIES

AMERICAN INSTITUTE OF PHYSICS (AIP)

2017 JOURNAL SCOPUS MAIN AUTHOR

31. SOLUTION FOR NONLINEAR DUFFING OSCILLATOR USING VARIABLE ORDER VARIABLE STEPSIZE BLOCK METHOD

MATEMATIKA

2017 JOURNAL WOS MAIN AUTHOR

32. VARIABLE ORDER VARIABLE STEPSIZE ALGORITHM FOR SOLVING NONLINEAR DUFFING OSCILLATOR

JOURNAL OF PHYSICS: CONF. SERIES

2017 JOURNAL WOS MAIN AUTHOR

PUBLICATION

33. BLOCK VARIABLE ORDER STEP SIZE METHOD FOR SOLVING HIGHER ORDER ORBITAL PROBLEMS

AMERICAN INSTITUTE OF PHYSICS (AIP) PROCEEDINGS

2017 JOURNAL SCOPUS MAIN AUTHOR

34. ASYMPTOTIC FORMULA FOR THE RIESZ MEANS OF THE SPECTRAL FUNCTIONS OF LAPLACE-BELTRAMI OPERATOR ON UNIT SPHERE

JOURNAL OF PHYSICS: CONF. SERIES

2017 JOURNAL WOS MAIN AUTHOR

35. BLOCK VARIABLE ORDER STEP SIZE METHOD FOR SOLVING HIGHER ORDER ORBITAL PROBLEMS

PROCEEDINGS OF THE 13TH IMT-GT INTERNATIONAL CONFERENCE ON MATHEMATICS, STATISTICS AND THEIR APPLICATIONS (ICMSA2017)

2017 PROCEEDING NON-INDEX MAIN AUTHOR

36. SOLUTION FOR NONLINEAR RICCATI EQUATION BY BLOCK METHOD

SIMPOSIUM KEBANGSAAN SAINS MATEMATIK 25

2017 PROCEEDING NON-INDEX MAIN AUTHOR

37. 2 POINT BLOCK BACKWARD DIFFERENCE METHOD FOR SOLVING RICCATI TYPE DIFFERENTIAL PROBLEMS

AIP CONFERENCE PROCEEDINGS

2016 JOURNAL SCOPUS MAIN AUTHOR

38. THE SOLUTION OF RICCATI TYPE DIFFERENTIAL EQUATION BY MEANS OF VARIABLE ORDER VARIABLE STEPSIZE BACKWARD DIFFERENCE METHOD

JOURNAL OF SOFT COMPUTING AND APPLICATIONS

2016 JOURNAL SCI MAIN AUTHOR

39. ON THE LEBESGUE CONSTANTS OF FOURIER-LAPLACE SERIES BY RIESZ MEANS

37TH INTERNATIONAL CONFERENCE ON QUANTUM PROBABILITY AND RELATED TOPICS

2016 PROCEEDING NON-INDEX MAIN AUTHOR

40. UNIFORM CONVERGENCE OF THE FOURIER-LAPLACE SERIES

4RD INTERNATIONAL CONFERENCE ON MATHEMATICAL SCIENCES (ICMS4)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

41. ABSENCE OF LOCALIZATION OF FOURIER-LAPLACE SERIES

4TH INTERNATIONAL CONFERENCE ON MATHEMATICAL SCIENCES (ICMS4)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

42. ON THE WEAK LOCALIZATION PRINCIPLE OF THE EIGENFUNCTION EXPANSIONS OF THE LAPLACE-BELTRAMI OPERATOR BY RIESZ METHOD

MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES

2015 JOURNAL SCOPUS MAIN AUTHOR

43. SOLVING NONSTIFF HIGHER ORDER ODES USING VARIABLE ORDER STEP SIZE BACKWARD DIFFERENCE DIRECTLY

MATHEMATICAL PROBLEMS IN ENGINEERING

2014 JOURNAL WOS MAIN AUTHOR

PUBLICATION

44. LOCALIZATION OF FOURIER-LAPLACE SERIES OF DISTRIBUTIONS

MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES

2013 JOURNAL SCOPUS MAIN AUTHOR

45. ON THE SUFFICIENT CONDITIONS OF THE LOCALIZATION OF THE FOURIER-LAPLACE SERIES OF DISTRIBUTIONS FROM LIOUVILLE CLASSES

JOURNAL OF PHYSICS.: CONF. SER

2013 JOURNAL SCOPUS MAIN AUTHOR

CONSULTATION

1. MATHEMATICAL EDUCATION

BEIJING WUZI UNIVERSITY

2022 INTERNATIONAL

AWARDS/RECOGNITION

1. EXPLORING FLOW STABILITY: INFLUENCE OF SLIP, SORET, AND DUFOUR ON CU-WATER NANOFLUID OVER A STRETCHING/SHRINKING SHEET

Semarak International Research Innovation Symposium IV (SIRIS IV)

2025 ANTARABANGSA GOLD

2. ANUGERAH KECEMERLANGAN STAF

2024 UNIVERSITY

3. BRONZE MEDAL

2024 NATIONAL

4. ACADEMIC ADVISOR

USIM-KPT

2024 NATIONAL

5. ACADEMIC ADVISOR

USIM-KPT

2024 NATIONAL