



**PROF. MADYA DR. AHMAD  
FADLY NURULLAH BIN  
RASEDEE**

PENSYARAH UNIVERSITI DS14

**CONTACT**

**Phone:** 067978734

**E-mail:**  
fadlynurullah@usim.edu.my

**Address:** Fakulti Ekonomi  
Dan Muamalat

**SUPERVISION**

PhD - Completed: 3, Ongoing: 0

Master - Completed: 1, Ongoing: 1

**AREAS OF EXPERTISE**

Numerical Analysis

Computational Simulation And Modelling

Mathematics In Computational Finance

**BIOGRAPHY**

A lecturer from Fakulti Ekonomi Dan Muamalat. Holds a Phd in Pure Mathematics.

**ACADEMIC QUALIFICATION**

Phd in Pure Mathematics (2015)

Master in Numerical Analysis (2010)

Bachelor in Mathematics (2006)

**RESEARCH**

**1. ESTABLISHING A NUMERICAL SOLUTION FOR ISLAMIC ASSET PRICES USING A MULTISTEP-WAVELET ALGORITHM TO PROMOTE LONG TERM ECONOMIC STABILITY**

2024 ON GOING MAIN RESEARCHER

**2. NUMERICAL APPROACH FOR ANALYZING ASSET PRICES**

2023 ON GOING MAIN RESEARCHER

**3. NUMERICAL SOLUTION FOR ISLAMIC PRICING OPTION USING A MODIFIED 2 POINT BLOCK BACKWARDS DIFFERENCE METHOD**

2017 COMPLETED MAIN RESEARCHER

# PUBLICATION

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

2025 JOURNAL

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

2025 JOURNAL

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

2024 JOURNAL

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

2024 JOURNAL

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

2024 PROCEEDING

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

2024 PROCEEDING

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

2023 JOURNAL

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

2023 BOOK

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

2022 JOURNAL

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

2022 JOURNAL

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

2022 PROCEEDING

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

2022 PROCEEDING

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

2021 JOURNAL

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

2020 JOURNAL

**15. NUMERICAL SOLUTION OF NONLINEAR FREDHOLM AND VOLTERRA INTEGRALS BY NEWTON-KANTOROVICH AND HAAR WAVELETS METHODS**

2020 JOURNAL

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

2020 JOURNAL

**17. ON THE UNIFORM SUMMABILITY OF THE FOURIER-LAPLACE SERIES ON THE SPHERE**

2020 JOURNAL

**18. NUMERICAL APPROXIMATION OF RICCATI TYPE DIFFERENTIAL EQUATIONS**

2020 JOURNAL

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

2019 JOURNAL

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

2019 CHAPTER IN BOOK

**21. SUMMATION BY RIESZ MEANS OF THE FOURIER-LAPLACE SERIES**

2018 JOURNAL

**22. SOLUTION FOR NONLINEAR RICCATI EQUATION BY BLOCK METHOD**

2018 JOURNAL

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

2018 JOURNAL

**24. A BACKWARD DIFFERENCE FORMULATION FOR SOLVING DUFFING-VAN DER POL TYPE OSCILLATORS**

2018 JOURNAL

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

2018 PROCEEDING

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

2017 JOURNAL

**27. ABSENCE OF LOCALIZATION OF FOURIER-LAPLACE SERIES**

2017 JOURNAL

**28. UNIFORM CONVERGENCE OF THE FOURIER-LAPLACE SERIES**

2017 JOURNAL

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

2017 JOURNAL

**30. VARIABLE ORDER VARIABLE STEPSIZE ALGORITHM FOR SOLVING NONLINEAR DUFFING OSCILLATOR**

2017 JOURNAL

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

2017 JOURNAL

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

2017 JOURNAL

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

2017 PROCEEDING

### 34. SOLUTION FOR NONLINEAR RICCATI EQUATION BY BLOCK METHOD

2017 PROCEEDING

### 35. 2 POINT BLOCK BACKWARD DIFFERENCE METHOD FOR SOLVING RICCATI TYPE DIFFERENTIAL PROBLEMS

2016 JOURNAL

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

2016 JOURNAL

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

2016 PROCEEDING

### 38. UNIFORM CONVERGENCE OF THE FOURIER-LAPLACE SERIES

2016 PROCEEDING

### 39. ABSENCE OF LOCALIZATION OF FOURIER-LAPLACE SERIES

2016 PROCEEDING

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

2015 JOURNAL

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

2014 JOURNAL

### 42. LOCALIZATION OF FOURIER-LAPLACE SERIES OF DISTRIBUTIONS

2013 JOURNAL

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

2013 JOURNAL

## CONSULTATION/ADULATION

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### 1. MATHEMATICAL EDUCATION

2022 INTERNATIONAL BEIJING WUZI UNIVERSITY

## AWARDS/RECOGNITION

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

2025 Antarabangsa Gold

### 2. ANUGERAH KECEMERLANGAN STAF

2024 UNIVERSITY

### 3. BRONZE MEDAL

2024

NATIONAL

### 4. ACADEMIC ADVISOR

2024

NATIONAL

### 5. ACADEMIC ADVISOR

2024

NATIONAL