CURRICULUM VITAE

PERSONAL DETAILS

Full Name   : RAHIMAH BINTI JUSOH @ AWANG
Place of Birth   : DUNGUN, TERENGGANU
Date of Birth   : JUNE, 7th 1987
Nationality   : MALAYSIAN
Email   : rahimahj@ump.edu.my
Google Scholar   : Rahimah Jusoh
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EDUCATION

- **2019**   : Phd (Mathematics)
   Universiti Kebangsaan Malaysia.
- **2009**   : MSc (Mathematics)
   Universiti Teknologi Malaysia, Skudai.
- **2007**   : BSc (Industrial Mathematics)
   Universiti Teknologi Malaysia, Skudai.

EMPLOYMENT

2009 - Current
Lecturer
Faculty of Industrial Sciences & Technology,
Universiti Malaysia Pahang.

Teaching Experience: Engineering Mathematics III, Applied Calculus, Ordinary Differential Equations, Industrial Calculus, Fundamental Discrete Structure, Basic Mathematics, Technical Mathematics.

Administration post:
- Principal of Residential College KK3, UMP (2010)
- Fellow of Residential College KK1, UMP (2013-2015)

- Head of Applied Mathematics Panel (2011-2015)
- Committee of *Olimpiad Matematik Kebangsaan* (2011 - 2014)
- Committee of The 2nd ISM International Statistical Conference (2014).
- Committee of National Conference on Industry-Academia Initiatives in Biotechnology (2013).
- Library-Faculty Representative, FIST, UMP. (2011-2013)
- Chief of Facilitator for Oh My Math program (2014)
- Facilitator of *Ez-Scimat* and *Matemadesa* (2012)
- Facilitator of Mathemania (2019)
- Committee of the 2nd International Conference on Applied & Industrial Mathematics and Statistics (ICoAIMS 2019)

AWARDS

- Anugerah Cendekia Bitara UMP – Q1 High Impact Journal Publication (2017).
- Excellence Service Award, Universiti Malaysia Pahang (2015).
- Silver Medal Citrex UMP (2015)

RESEARCH INTEREST

- Mathematical Modelling
- Fluid Dynamic
- Heat Transfer
- Applied Mathematics

RESEARCH PUBLICATIONS

1. **R. Jusoh**, R. Nazar & I. Pop. "Impact of heat generation/absorption on the unsteady magnetohydrodynamic stagnation point flow and heat transfer of nanofluids." *International Journal of Numerical Methods for Heat & Fluid Flow* https://doi.org/10.1108/HFF-04-2019-0300.

2. **R. Jusoh**, R. Nazar & I. Pop. "Magnetohydrodynamic boundary layer flow and heat transfer of nanofluids past a bidirectional exponential permeable stretching/shrinking sheet with viscous dissipation effect." *Journal of Heat Transfer* 141(1): 012406, 2019.

3. **R. Jusoh** & R. Nazar. "Effect of heat generation on mixed convection of micropolar fluid over a stretching/shrinking sheet with suction." *Journal of Physics: Conference Series* 1212: 012024, 2019.

4. **R. Jusoh**, R. Nazar & I. Pop. "Three dimensional flow of a nanofluid over a permeable stretching/shrinking surface with velocity slip: A revised model." *Physics of Fluids* 30: 033604, 2018.

5.   **R. Jusoh**, R. Nazar & I. Pop. "Magnetohydrodynamic rotating flow and heat transfer of ferrofluid due to an exponentially permeable stretching/shrinking sheet." *Journal of Magnetism and Magnetic Materials* 465: 365-374, 2018.

6.   **R. Jusoh** & R. Nazar. "MHD stagnation point flow and heat transfer of a nanofluid over a permeable nonlinear stretching/shrinking sheet with viscous dissipation effect." *AIP Conference Proceedings* 1940: 020125, 2018.

7.   **R. Jusoh**, R. Nazar & I. Pop. "Dual solutions of MHD three-dimensional flow over a permeable stretching/shrinking surface with velocity slip and thermal radiation in a nanofluid." *Journal of Computational and Theoretical Nanoscience* 14: 1644-1652, 2017.

8.   **R. Jusoh**, R. Nazar & I. Pop. "Flow and heat transfer of magnetohydrodynamic three-dimensional Maxwell nanofluid over a permeable stretching/shrinking surface with convective boundary conditions." *International Journal of Mechanical Sciences* 124-125: 166-174, 2017.

9.   **R. Jusoh** & R. Nazar. "Stagnation point flow and heat transfer of a nanofluid over a stretching/shrinking sheet with convective boundary condition and suction." *AIP Conference Proceedings* 1830: 020043, 2017.

10.   **R. Jusoh** & R. Nazar. "Dual solutions of stagnation point flow and heat transfer of Maxwell fluid over a permeable stretching/shrinking sheet in the presence of nanoparticles." *AIP Conference Proceedings* 1870: 040032, 2017.

11.   **R. Jusoh**, R. Nazar & I. Pop. "Dual solutions of magnetohydrodynamic stagnation point flow and heat transfer of viscoelastic nanofluid over a permeable stretching/shrinking sheet with thermal radiation." *Journal of Physics: Conference Series* 890: 012063, 2017.

12.   Zulkhibri Ismail, Ilyas Khan, Nadirah Mohd Nasir, **Rahimah Jusoh @ Awang**, Mohd Zuki Salleh & Sharidan Shafie. "The effects of magnetohydrodynamic and radiation on flow of second grade fluid past an infinite inclined plate in porous medium." *AIP Conference Proceedings* 1643: 563-569, 2015.

13.   Zulkhibri Ismail, Ilyas Khan, Nadirah Mohd Nasir, **Rahimah Jusoh @ Awang**, Mohd Zuki Salleh & Sharidan Shafie. "Rotation effects on unsteady magnetohydrodynamic second grade fluid flow in a porous medium past an infinite inclined plate." *AIP Conference Proceedings* 1643(1): 555—562, 2015.

14.   N. Rosli, A. Bahar, S.H. Yeak & **R. Jusoh@ Awang.** "2–stage stochastic Runge–Kutta for stochastic delay differential equations." *AIP Conference Proceedings* 1660(1): 050006, 2015.

15.   Zulkhibri Ismail, Ilyas Khan, Nadirah Mohd Nasir, **Rahimah Jusoh @ Awang**, Mohd Zuki Salleh & Sharidan Shafie. "Rotation effects on coupled heat and mass transfer by unsteady MHD free convection flow in a porous medium past an infinite inclined plate." *AIP Conference Proceedings* 1605(1): 410—415, 2014.

16.   N.M Nasir, Y. Hashim, S.F. Ahmad Zabidi, **R. Jusoh**. "Preliminary study of student performance on algebraic concepts and differentiation." *World Applied Sciences Journal* 21: 162-167, 2013.

17. M.K A. Mohamed, N.M. Nasir, N.S. Khasi'ie, **R. Jusoh**, N.H. Moslim, E.M. Zaihidee, M.Z. Salleh."Numerical investigation of stagnation point flow over a stretching sheet with Newtonian heating." *AIP Conference Proceedings* 1482(1): 347-350, 2012.

BOOK PUBLICATIONS

1. Applied Calculus for Engineering & Science Students, Samsudin Abdullah, **Rahimah Jusoh @ Awang**, Abdul Rahman Mohd Kasim, Norazaliza Mohd Jamil, Nor Izzati Jaini, Ezzatul Farhain Azmi, ISBN: 978-967-2054-26-9, Penerbit UMP, 2017.

2. Ordinary Differential Equations, Samsudin Abdullah, Mohd Zuki Salleh, Nadirah Mohd Nasir, **Rahimah Jusoh @ Awang**, Laila Amera Aziz, Wan Nur Syahidah Wan Yusoff, Nor Aida Zuraimi Md Noar, ISBN: 978-967-0691-23-71, Penerbit UMP, 2014.

3. Basic Mathematics, Ezrinda Mohd Zaihidee, Farahanim Misni, **Rahimah Jusoh @ Awang**, Nadirah Mohd Nasir, Mohd Rashid Abdul Hamid, Nabilah Alias, ISBN: 978-967-0120-959, Penerbit UMP, 2013.

CONFERENCE ATTENDED

1. *The 14th International Symposium on Geometric Function Theory and Applications (GFTA),* Fakulti Sains dan Teknologi, UKM, Bangi, Selangor, Malaysia, 3-5 December 2018.
2. *The 1st International Conference on Applied & Industrial Mathematics and Statistics (ICoAIMS2017)*, Kuantan, Pahang, Malaysia, 8-10 August 2017.
3. *The 17th Postgraduate Colloquium,* Faculty of Science & Technology, UKM, Bangi, Selangor, Malaysia, 12-13 July 2017.
4. *The 24th National Symposium on Mathematical Sciences (SKSM24)*, Terengganu, Malaysia, 27-29 September 2016.
5. *The 4th International Conference on Mathematical Sciences (ICMS4)*, Putrajaya, Malaysia, 15-17 November 2016.
6. *The 2nd Regional Conference on Applied and Engineering Mathematics* (RCAEM 2012), Eastern & Oriental Hotel, Penang, 29 May- 1 June 2012

RESEARCH GRANTS

1. UMP Internal Grant RDU191101 (Seed Money): Mathematical Modelling of Boundary Layer Flow and Heat Transfer in Nanofluids, April 2019-April 2021, RM5500 (Leader)

2. UMP Internal Grant RDU120362: Stochastic Taylor Approximation of Stochastic Delay Differential Equations, July 2012 - December 2014, RM28,000 (Co-Researcher).

3. UMP Internal Grant RDU131405: Mathematical Model on Unsteady Magnetohydrodynamics (MHD) Flow of Second Grade Fluid in a Porous Medium Pas an Infinite Inclined Plate using Laplace Transform Method, September 2013 - June 2016, RM56,342 (Co-Researcher)

4. UMP Internal Grant RDU110390: Mathematical Models for the Convection Boundary Layer Flow over a Horizontal Circular Cylinder with Newtonian Heating or Under Mixed Thermal Boundary Conditions, October 2011 - September 2013, RM20,500 (Co-Researcher)

5. UMP Internal Grant RDU100376: Mixed Heuristic Approach for Multidimensional Knapsack Problem, October 2010 – October 2012, RM2,500 (Co-Researcher)

6. UMP Internal Grant RDU131405: The Development of Computer Aided Teaching & Learning in Additional Mathematics (CATLAM) in Malaysian Secondary Schools, June 2010 – June 2012, RM16,180 (Co-Researcher)

ASSOCIATION MEMBERSHIP

- Persatuan Sains Matematik Malaysia (PERSAMA)
  Membership No. : RS2014-5

REVIEWER APPOINTMENT

- Physics of Fluids – AIP Publishing Journal
- Journal of Physics and Chemistry of Solids – Elsevier
- Engineering Applications of Computational Fluid Mechanics – Taylor & Francis Online Journal