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Education

2009	<p>Doctor of Philosophy, Applied Mathematics/ Queensland University of Technology (QUT), Brisbane, Australia.</p> <ul style="list-style-type: none"> Thesis title: Modelling Water Droplet Movements on a Leaf Surface.
2005	<p>Master of Science, Mathematics/ National University of Malaysia (UKM), Malaysia.</p> <ul style="list-style-type: none"> Thesis title: Certain Problems on Meromorphic P-valent Function.
2003	<p>Bachelor of Science, Applied mathematics, Jordan University of Science and Technology (JUST), Jordan.</p>

Teaching Experience

2019-present	<p>Associate professor of Applied Mathematics, Department of Mathematics, Faculty of Science, Al-Balqa' Applied University, Jordan.</p>
2016-2019	<p>Assistance professor of Applied Mathematics, Department of Mathematics, Faculty of Science, Al-Balqa' Applied University, Jordan.</p>
September 2014 to January 2016	<p>Full Time Lecturer of Applied Mathematics, Department of Mathematics, Faculty of Science, Al-Balqa' Applied University, Jordan.</p>
June 2013 to Aug. 2013 (summer)	<p>Assistance professor of Applied Mathematics, Department of Mathematics, Faculty of Science, Jordan University of Science & Technology, Jordan.</p>
September 2010 to June 2012	<p>Assistance professor of Applied Mathematics, Department of Mathematics, Faculty of Science, Al-Albait University, Jordan.</p>
March 2009 to August 2010	<p>Tutor of Applied Mathematics, School of Mathematical Sciences, Queensland University Of Technology, Australia.</p>



September 2003 to August 2004	Mathematics teacher, Ministry of education, Jarash, Jordan.
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Awards and Special Achievements:

2018	<ul style="list-style-type: none"> The International Institute of Engineers & Researchers Excellent Paper Award for the paper entitled "Approximation of Radial Basis function with linear polynomial: Comparison and Application " Sydney, Australia, 2018.
2006	<ul style="list-style-type: none"> PhD scholarship from Queensland University of technology (2006-2009).
2009	<ul style="list-style-type: none"> University Outstanding PhD Thesis award in applied Mathematics, QUT, Australia, 2009.
2005	<ul style="list-style-type: none"> First class honors in Master Degree, Malaysia, 2005.

Academic Memberships:

2016-2018	<ul style="list-style-type: none"> Acting Head of Department of Mathematics, Faculty of Science, Al-Balqa Applied University, Al-Salt, Jordan. Academic Years 2016 to 2018.
2016	<ul style="list-style-type: none"> Member of Mathematics Curriculum Plan for the Master Degree, Department of Mathematics, Faculty of Science, Al- Balqa Applied University, Jordan.
2016-2020	<ul style="list-style-type: none"> Member in the Scientific Research Committee, Department of Mathematics, Faculty of Science, Al- Balqa Applied University, Jordan.
2016-2018	<ul style="list-style-type: none"> Member of Scientific Research Committees, Faculty of science, Al-Balqa Applied University, Jordan.



2016-2018	<ul style="list-style-type: none"> Member in the Graduate Studies Committee, Department of Mathematics, Faculty of Science, Al- Balqa Applied University, Jordan.
2016-2019	<ul style="list-style-type: none"> Member of several internal committees in the faculty and department at Al-Balqa Applied University, Jordan.
2010-2020	<ul style="list-style-type: none"> Reviewer for a number of national and international journals.

Recent Publications

1	<p>Moa'ath Nasser and M. Darus. Certain classes of meromorphic p-valent functions with positive coefficients. Tamkang J. Math. (ISI Indexed), 37(3): pp. 251-260, 2006.</p>
2	<p>M.N. Oqielat, J.A. Belward, I.W. Turner, and B.I. Loch. A Hybrid Clough-Tocher Radial Basis Function Method for Modelling Leaf Surfaces. In Oxley, L. and Kulasiri, D. (eds) MODSIM 2007 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand, December 2007 (Scopus), pp.400-406, 2007.</p>
3	<p>J.A. Belward, I.W. Turner, and M.N. Oqielat. Numerical Investigations of Linear Least Squares Methods for Derivatives Estimation. ANZIAM Journal (Scopus), 50, pp. 844-857, 2009.</p>
4	<p>M.N. Oqielat, I.W. Turner, and J.A. Belward. A Hybrid Clough-Tocher Method for Surface Fitting with Application to Leaf Data. Applied Mathematical Modelling, (ISI Indexed), 33: pp. 2582–2595, 2009.</p>
5	<p>I.W. Turner, J.A. Belward, and M.N. Oqielat. Error Bounds for Least Squares Gradient Estimates. SIAM Journal on Scientific Computing (ISI Indexed), 32(4): pp. 2146–2166, 2010.</p>
6	<p>M.N. Oqielat, I.W. Turner, J.A. Belward, and S.W. McCue. Modelling Water Droplet Movement on a Leaf Surface. Mathematics and Computer in Simulation (ISI Indexed), 81(8): pp. 1553-1571, 2011.</p>
7	<p>Moa'ath N. Oqielat. Hadamard Product of meromorphic p-valent functions with positive coefficients. Global Journal of pure and applied mathematics, (Scopus up to 2016). 10(5): pp.745-754, 2013.</p>
8	<p>Moa'ath N. Oqielat. Hadamard Product of meromorphic p-valent functions with Negative coefficients. Journal of Mathematical Theory and Modeling (Scopus), 12(4): pp. 121-130, 2014.</p>



- 9 F. Doujan Wrikat, O. Ogilat and **Moa'ath N. Oqielat**. On The Characteristic Polynomial of Covering Number of Vertices and Edges of Graphs. *Far East Journal of Mathematical Sciences (Scopus)*, 102(3), pp 527-535, 2016.
- 10 **Moa'ath N. Oqielat**, Osama Ogilat, Nizar Al-Oushoush and A. Sami Bataineh. Radial Basis Function Method For Modelling Leaf Surface from Real Leaf Data. *Australian Journal of Basic and Applied Sciences, (Scopus)* 11(13): pp. 103-111, 2017.
- 11 **Moa'ath N. Oqielat**. Surface Fitting Methods for Modelling Leaf surface from scanned data. *Journal of King Saud University – Science (ISI Indexed)*, 2019.
- 12 **Moa'ath N. Oqielat**. Scattered Data Approximation Using Radial Basis function with a Cubic polynomial Reproduction for modelling Leaf Surface. *Journal of Taibah University for Science (ISI Indexed)*, accepted 2018.
- 13 **Moa'ath N. Oqielat**. Application of Interpolation Finite Element Methods to a Real 3D Leaf Data. *Journal of King Saud University – Science (ISI Indexed)*, 2020.
- 14 **Moa'ath N. Oqielat**. Comparison of Surface Fitting Methods for Modelling Leaf Surfaces. *Italian Journal of Pure and Applied Mathematics (ISI Indexed)*, N. 40, pp 215-226, 2018.
- 15 **Moa'ath N. Oqielat** & O. Ogilat. Application of Gaussian Radial Basis function with Cubic polynomial for modelling leaf surface. *Journal of Mathematical Analysis, (ISI Indexed)* 9 (2), pp 78-87, 2018.
- 16 **Moa'ath N. Oqielat**, O. Ogilat ,A. Sami Bataineh. Approximation of Radial Basis function with linear polynomial: Comparison and Application. *International Conference on Applied Physics and Mathematics (ICAPM), Sydney, Australia, 2018*.
- 17 Ahmad El-Ajou, **Moa'ath N Oqielat**, Zeyad Al-Zhour, Numerical Analytical Solutions of the Fractional Multi-Pantograph System: Two Attractive Methods and Comparisons. *Results in Physics, (ISI Indexed)* 14, 2019.
- 18 Ahmad El-Ajou; Zeyad Al-Zhour; **Moa'ath Oqielat**; Shaher Momani & Tasawar Hayat, Series Solutions of Nonlinear Conformable Fractional KdV-Burgers Equation with Some Applications, *The European Physical Journal Plus, (ISI Indexed)*, 2019.
- 19 O.Ogilat & **Moa'ath N. Oqielat**. Generation of internal waves by flow past a flat plate in a two-layer fluid of finite depth, *Physica Scripta (ISI Indexed)*, 2019.
- 20 Ahmad El-Ajou, **Moa'ath N. Oqielat**, Osama Ogilat, Mohammed Al-Smadi, Shaher Momani & Ahmad Alsaedi. Mathematical model for Simulating the movement of water droplet on leaf surface. *Frontiers in Physics, (ISI Indexed)*, 7 (2019), 132. <https://doi.org/10.3389/fphy.2019.00132>.
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22	Ahmad El-Ajou, Zeyad Al-Zhour; Moa'ath N. Oqielat , Shaher Momani. Solitary Solutions for Time-Fractional Nonlinear Dispersive PDEs in the sense of conformable Fractional Derivative. Chaos, (ISI Indexed) , 2019.
23	Moa'ath N. Oqielat , Ahmad El-Ajoua, Zeyad Al-Zhour, Raed Alkhasawneh, Hussam Alrabaia. Series solutions for nonlinear time-fractional Schrödinger equations: Comparisons between conformable and Caputo derivatives. Alexandria Engineering Journal. (ISI Indexed) , 2020.
24	Ahmad El-Ajou, Moa'ath N Oqielat , Zeyad Al-Zhour, Shaher Momani. A Class of Linear Non-Homogenous Higher Order Matrix Fractional Differential Equations: Analytical Solutions and New Technique. Fractional Calculus and Applied Analysis, (ISI Indexed) , 2020.
25	Tareq Eriqat, Ahmad El-Ajou, Moa'ath N. Oqielat , Zeyad Al-Zhour; Shaher Momani. A New Attractive Analytic Approach for Solutions of Linear and Nonlinear Neutral Fractional Pantograph Equations. Fractional Calculus and Applied Analysis, (ISI Indexed) , 2020.
26	Ahmad El-Ajou, Mohammed Al-Smadi, Moa'ath N. Oqielat , Shaher Momani & Samir Hadid. Smooth Expansion to Solve High-Order Linear Conformable Fractional PDEs Via Residual Power Series Method: Applications to Physical and Engineering Equations. Ain Shams Engineering Journal, (ISI Indexed) , 2020. Moa'ath N. Oqielat . Modelling leaf surface reconstruction using Bernstein polynomials method, 39, 268 (2020) . Computational and Applied Mathematics .

Conferences/ Workshops/ Seminars:

2006	<ul style="list-style-type: none"> Presented work entitled "Surface fitting techniques for biological systems" at the 2006 School of Mathematical Sciences Postgraduate Research Day, 9 June 2006.
2006	<ul style="list-style-type: none"> Presented work entitled "Surface fitting techniques for biological systems" at the 2006 QANZIAM Meeting, Stanthorpe, 9-10 September, 2006. Attended the Australian Partnership for Advance Computing, Summer School in Computational Science at QUT from 4-8 December 2006.
2006	<ul style="list-style-type: none"> Presented work entitled "A Hybrid Clough-Tocher Radial Basis Function Method for Modelling Leaf Surfaces" at the MODSIM 2007 International Congress on Modelling and Simulation, New Zealand, December 2007.
2007	



2007	<ul style="list-style-type: none"> Presented work entitled "A Hybrid Clough-Tocher Radial Basis Function Method for Modelling Leaf Surfaces" at the 2007 School of Mathematical Sciences Postgraduate Research Day, 9 June 2007.
2007	<ul style="list-style-type: none"> Presented a poster entitled "A New Hybrid Clough-Tocher Radial basis function Method For Modelling Leaf Surface" at the QUT Postgraduate and Research Showcase, 13 September, 2007.
2008	<ul style="list-style-type: none"> Presented work entitled "Simulating Water Droplet Movement on a Leaf surface " at the 2008 School of Mathematical Sciences Postgraduate Research Day, 6 June 2008.
2009	<ul style="list-style-type: none"> Presented work entitled "Modelling Water Droplet Movement on a Leaf surface " at the 2009 School of Mathematical Sciences Postgraduate Research Day, 6 June 2009.
2018	<ul style="list-style-type: none"> Presented work entitled "Approximation of Radial Basis function with linear polynomial: Comparison and Application "at the 429th ICAPM Conference, 24 June 2018, Sydney, Australia.

Supervised Doctoral & Master Theses:

	Master
2018	<ul style="list-style-type: none"> Tariq Ziad Eriqat, A Series Method for Solving Linear and Nonlinear Fractional Pantograph equation, Al-Balqa' Applied University, Jordan.
2020	<ul style="list-style-type: none"> Haneen Mohammed Al-ghananeem, Adaptation of the Laplace transforms to construct exact and approximate solutions of strongly nonlinear ordinary differential equations.

Research Grants

2006-2009	<ul style="list-style-type: none"> PhD scholarship, Queensland University of Technology/ Australia.
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References

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	<p>Email : i.turner@qut.edu.au Postal Address : School of Mathematical Sciences, QUT, GPO Box 2434, Brisbane Qld 4001.</p> <p>Name : Professor John Belward Position : Professor Work Place : School of Mathematical Sciences, QUT, Australia. Phone : +61 7 3138 6194 Fax : +61 7 3138 1329 Email : j.belward@qut.edu.au Postal Address : School of Mathematical Sciences, QUT, GPO Box 2434, Brisbane Qld 4001</p> <p>Name: Professor Maslina Darus Position : Professor. Work Place : School of Mathematical Science, National University of Malaysia E-MAIL : maslina@pkriscc.ukm.my Phone : 00603-8921 3423.</p>
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