



Dates	<b>Feb. 2005 – Feb. 2007</b>
Occupation or position held	Lecturer
Name of employer	Engineering Department, Swan TAFE, Carlisle campus ( <b>Australia</b> )
Dates	<b>Feb. 2001 – Feb. 2007</b>
Occupation or position held	Lecturer
Name of employer	School of Mathematics & Statistics, Curtin Uni. of Technology ( <b>Australia</b> )
Dates	<b>Feb. 2003 – Feb. 2007</b>
Occupation or position held	Lecturer
Name of employer	Curtin International College ( <b>Australia</b> )
Dates	<b>Feb. 2003 – Feb. 2004</b>
Occupation or position held	Tutor
Name of employer	Notre Dame University ( <b>Australia</b> )
Dates	<b>Feb. 1999 – Feb. 2001</b>
Occupation or position held	Tutor
Name of employer	University of Western Sydney ( <b>Australia</b> )
Dates	<b>Sep. 1997- Feb. 1999</b>
Occupation or position held	Lecturer
Name of employer	Dept. of Mathematics, Hashemite University ( <b>Jordan</b> )
Dates	<b>Feb. 1994 – Sep. 1997</b>
Occupation or position held	Lecturer
Name of employer	Dept. of Mathematics, Jarash University ( <b>Jordan</b> )

<b>Personal skills and competences</b>	
Computer skills (software) and competences	Word processing, spreadsheets in Excel, Statistics analysis SPSS, Mathematic and Maple.
Areas of research interest	Combinatorics: Extremal Graph Theory, Ramsey Numbers, Basis Numbers of Graphs and Metric Dimensions.
Courses taught at the university level	Calculus 1, Calculus 2, Calculus 3, Fundamental of Statistics, Statistics for Engineering, Engineering Mathematics (2), Statistics for Business, Linear Algebra, Operations Research I, Operations Research II, Mathematical Statistics, Differential Equation, Graph Theory, Set Theory, Combinatorics, Applied graph theory, Selected topics in graph theory and Complex analysis.

<b>Languages</b>	English and Arabic
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<b>References</b>	
<b>1. Dr. Mohammed Jaradat</b>	School of Mathematics, Qatar university, Email: <a href="mailto:mmjst4@yu.edu.jo">mmjst4@yu.edu.jo</a> , Tel: +97455973995.
<b>2. Prof. Lou Caccetta</b>	School of Mathematics & Statistics, Curtin University of Technology, Email : <a href="mailto:caccetta@maths.curtin.edu.au">caccetta@maths.curtin.edu.au</a> , Tel: +618 92667234.
<b>3. Prof. Ahmed Al rhayyel</b>	School of Mathematics, Yarmouk University, Email: <a href="mailto:alrhayyel@yahoo.com">alrhayyel@yahoo.com</a> , Tel: +962776738638.

## List of Contributions

### I. Articles Published in Referee Journals

1. Ramadan, K.M., Kamil, M., Bataineh, M.S., Conjugate Heat Transfer in a Microchannel Simultaneously Developing Gas Flow: A Vorticity Stream Function-Based Numerical Analysis. *Journal of Thermal Science and Engineering Applications*, 11(6), 2019.
2. Bataineh M., Jaradat M. M., Mustafa Z. and AL-Rhayyel A. A., Edge Maximal Hamiltonian Graphs Without Theta Graphs of Order 7, *Italian Journal of Pure and Applied Mathematics*, 42, 413-427, 2019.
3. Mustafa, Z., Jaradat, M.M.M., Ansari, A., Radenović, S., Bataineh, M.S., Common fixed point theorems for two pairs of self-mappings in partial metric space using C-class functions on  $(\psi, \phi)$ -contractive condition. *Journal of Mathematics and Computer Science*, 18(2), pp. 216-231, 2018.
4. Jaradat M. M., Bataineh M., VetrikT., Rabaiah A., A note on the Ramsey numbers for theta graphs versus the wheel of order 5. *AKCE International Journal of Graphs and Combinatorics*, V 15, Issue 2, Pages 187-189, 2018.
5. Bataineh M., VetrikT., Jaradat M. M., The Ramsey number for two graphs of order 5 *Discrete Mathematical Sciences and Cryptography*, Volume 21I, Issue 7-8, 2018.
6. Jaradat M.M., Bataineh M. and Al Hazeem N., The theta-complete graph Ramsey number  $R(\theta_n, K_5)$ . *Ars Combinatoria*. 134, pp. 177-191, 2017.
7. Fora A., Massa'deh M., Bataineh M., A New Structure and Contribution in D-metric Spaces, *British Journal of Mathematics & Computer Science*, volume 22(1), (2017), pages 1-9.
8. Jaradat M.M. , Bataineh M., and Al-Qeyyam M.K., On the basis number of the wreath product of paths with wheels and some related problems". *Ars Combinatoria*, 131:239-253, 2017.
9. Fora A., Massa'deh M., Bataineh M., M-Fuzzy Metric Spaces and D-metric Spaces, *Advances in Fuzzy Sets and Systems*, Volume 21( 4), (2016), Pages 281-289.
10. Bataineh M., Jaradat M.M. and Al-Shboul E., Edge-maximal graphs without  $\theta_5$  - graph. *Ars Combinatoria*, volume 124, (2016), pages 193-207.
11. Jaradat M.M., Bataineh M. and Jaradat A., Edge-maximal graphs containing no specific wheels. *Jordan J. Math. Stat.*, volume 8, issue 2, (2015), pages 107-120.
12. Jaradat M.M., Bataineh M. and Al-Shboul, E., Edge-maximal graphs without  $\theta_{2k+1}$  - graphs. *Akce International Journal of Graphs and Combinatorics*, volume 11, issue 1, (2014), pages 57-65.
13. Bataineh M., Jaradat M.M. and Bateeha M., The Ramsey number for theta graph versus a clique of order three and four. *Discussiones Mathematicae Graph Theory* volume 34, issue 2, (2014), pages 223-232.
14. Jaradat M.M. and Bataineh M., Edge-Maximal  $\theta_{k+1}$ -Edge Disjoint Free Graphs. *Kyungpook mathematical journal*, volume 54, issue 1, (2014), pages 23-30.
15. Al-Rhayyel A., Jaradat A., Jaradat M.M. and Bataineh M., Edge-maximal graphs without  $W_k$  graphs,  $k=5, 6$ ". *J. of Comb Number Theory*, volume 3, (2012), pages 143–150.
16. Bataineh M., Jaradat M.M. and Al-Shboul E., Edge-maximal graphs without theta graphs of order seven: Part II, *Proceeding of the computational mathematics, Computational geometry and Statistics*, Singapore, (2012), 129-134.

17. Alrhayyel A., Bataineh M. and Alzaalig A, An upper bound for the Ramsey Number  $r(C_6, K_9)$ . *Jordan J. Math. Stat.*, 5(1) (2012), 75-84.
18. Bataineh M. and Jaradat M.M., Edge-maximal  $C_{2k+1}$ -edge disjoint free graphs. *Discuss. Math. Graph Theory*, 32 (2012), 271–278.
19. Bataineh M., Jaradat M.M. and Al-Shboul E., Edge-maximal graphs without  $\theta_7$ -graphs. *SUT J. Math.*, 47 (2011), 91–103.
20. Bataineh M., Jaradat M.M. and Alzaalig L, The Ramsey Number of  $r(C_9, K_8)$ . *ISRN Algebra*. 2011 (2011) , Article ID 926191, 10 pages.
21. Bataineh M., Edge-maximal vertex disjoint  $C_{2k+1}$ -free graphs. *Jordan J. Math. Stat.*, 4 (2011), 79-89.
22. Jaradat M.M., Bataineh M. and Radaideh S., The Ramsey numbers for theta graphs. *Int. J. Comb.*, 2011(2011), Article ID 649687, 9 pages.
23. Bataineh M., Jaradat M.M., Edge-maximal  $C_3$  and  $C_5$ -edge disjoint free graphs. *Int. J. Math. Combin.*, 4(2011), 82-87.
24. Bataineh M., Jaradat M.M. and Al-Qeyyam M.K., On the basis number of the wreath product of wheels with stars. *Int. J. Math. Combin.*, 4(2010), 70-78.
25. Shatanawi W., Mustafa Z. and Bataineh M., On  $2-\lambda$ -Nuclearity Maps, *Jordan J. Math. and Stat.*, 3(2010), 43-51.
26. Bataineh M., An alternative proof of the Friendship Theorem, *Jordan J. Math. Stat.*, 2 (2009), 25-32.
27. Bataineh M., Stochastic Loss Systems Models and Policies, *Jordan J. Math. Stat.*, 1(2008), 105-121.

## II. Articles Accepted in Referee Journals

1. Bataineh M., Jaradat M. M., VetrikT., Bataineh M., Edge-maximal graphs without disjoint odd cycles. *Ars Combinatoria*, (Accepted 2017).
2. Bataineh M., Jaradat M. M., Mustafa Z. and AL-Rhayyel A. A., Extremal Number of Theta Graph of Order 7, *Boletim da Sociedade Paranaense de Matemática* (Accepted 2019).
3. Bataineh M., Siddiqui N. and Raza Z., edge metric dimension of k multi wheels graph(Accepted 2019).
4. Raza Z. and Bataineh M., The Edge metric dimension of some subdivisions of the wheel graph(Accepted 2019).

## III. Articles Submitted to Referee Journals

1. Zhid R., Jaradat M. M., Bataineh M. and Arif F., On the Sandpile Model of Modified Wheels II.
2. Zhid R., Bataineh M., Jaradat M. M. and Tehrim T., Achievement and Avoidance Games on some Finite non-Abelian Groups.
3. Bataineh M., VetrikT., Jaradat M. M., Rabaiah A., On the Ramsey numbers for theta graphs of order six versus the wheel of order 5.
4. Tthe theta-complete graph ramsey number  $r(\theta_k; k5)$ ;  $k = 7; 8; 9$ . *Italian journal of pure and applied mathematics*.
5. The theta-complete graph ramsey number  $r(\theta_k, k6)$ ;  $k \geq 6$ . *Ars Combinatoria*.

## IV. Supervisor of M.Sc. Students

1. Ekdhar Alshboul, Edge-maximal graphs without  $\theta_{2k+1}$ -graphs. July 2010 (*main advisor*).

2. Slaam Radaideh, Ramsey numbers for theta graphs. April 2011 (*main advisor*).
3. Mutasem saleem bateeha, On Ramsey numbers of complete graphs of order 4 versus theta graphs of order  $n$ . February 2012 (*main advisor*).
4. Nosiabi Al Hazeam, On Ramsey numbers of complete graphs of order 5 versus theta graphs of order  $n$ . February 2012 (*main advisor*).
5. Merfat Bani Irsheid, Edge maximal graphs containing no complete graph of missing a specific number of edges. December 2012 (**co advisor**).
6. Sanna Al ken, The Ramsey numbers of cycles versus theta graph. **March 2013** (*main advisor*).
7. Ayat Al Rababa, On Ramsey numbers of wheel graphs of order 5 versus theta graphs of order  $n$ . March 2013 (*main advisor*).
8. Asraa al Aoda, Edge-maximal graphs free  $C_{2k+1}$  - vertex disjoint graphs. April 2013 (**main advisor**).

#### **V. Supervisor Graduation projects**

1. Fatima Ahmed, Applications of Graph Colorings/ Guarding an Art Gallery. February 2017 (*main advisor*).
2. Fatima Ibrahim, Applications of Graph Colorings/ Scheduling of Final Exams. February 2017 (*main advisor*).
3. Dana Salman, Edge-maximal graphs without  $\theta_9$  - graphs. May 2017 (*main advisor*).
4. Alaa Abu Saleh, Edge-maximal graphs without  $\theta_{2k+1}$  - graphs. March 2018 (*main advisor*).
5. Amna Alktebi, The Edge metric dimension of some subdivisions of the wheel graph I. March 2018 (*main advisor*).
6. Amani Alqamez, The Edge metric dimension of some subdivisions of the wheel graph II. March 2018 (*main advisor*).
7. Dania Nachar, On Convex Set and Convex Functions. April 2019 (*main advisor*).
8. Amani Alqamez, The Edge metric dimension on a chain of cycles. December 2019 (*main advisor*).

#### **VI. Member of defines committee**

1. Maram Qasim Al – Shareedah, The Basis number of the Direct Product of Graphs. July 2010 (**Internal examiner at Yarmouk University**).
2. Ala' Mahmood Alzaalig, On the Ramsey Number of Graphs. July 2010 (**Internal examiner at Yarmouk University**).
3. Hanan Saleh Al - Azzam, Automorphisms of Graphs. August 2010 (**Internal examiner at Yarmouk University**).
4. Lewth Mahmood Alzaalig, The Ramsey Number of  $r(C_9, K_8)$ . April 2011 (**Internal examiner at Yarmouk University**).
5. Abeer Jaradt, Edge maximal graphs containing no wheel graph. June 2011 (**Internal examiner at Yarmouk University**).

#### **VII. Attended Workshops**

1. Workshops on teaching techniques / Yarmouk University, February. 2008.
2. Workshops on teaching mathematics using Maple/ Yarmouk University, February. 2010.
3. Workshops on learning blackboard/ University of Sharjah, September 2015.

4. Workshops on Faculty member's rights at UOS/ University of Sharjah, September 2015.
5. Workshops on teaching Technology / University of Sharjah, September 2018.

### **VIII. Attended Conferences and Seminars**

#### **IX.**

1. UAE Math day, April 14, 2019.
2. 2<sup>nd</sup> Sharjah International Mathematics Spring School, 23-25, March, 2019.
3. UAE Math day, April 14, 2018.
4. 1<sup>st</sup> Sharjah International Mathematics Spring School, 23-25, March, 2019.
5. 17th workshop on graph theory September 17-22, 2017, Piechowice, Poland.
6. UAE Math day, March 12, 2017.
7. UAE Math day, March 12, 2016.
8. AUS, November, 2016.
9. Graph Theory Conference in honor of Yoshimi Egawa on the occasion of his 60 th birthday, Tokyo, September 10-14, 2013.
10. Paul Turan memorial Conference on Mathematics, Budapest, August 22-26, 2011.
11. 18th National Conference of the Australian Society for Operations Research (ASOR) and 11th Australian Optimization Day, Perth, September 26 - 28, 2005.

### **X. Committee Service at Yarmouk University (Dep. of Mathematics)**

1. Faculty committee
2. Scholarships and appointments committee
3. Study Plan committee
4. Social committee

### **XI. Committee Service at University of Sharjah**

1. Community Service and Social Committee
2. Annual report Committee
3. Curriculum Committee

### **XII. Refereeing/Referee for the following journals**

1. Jordan Journal of Mathematics and Statistics
2. The Arab Journal of Mathematics and mathematical sciences
3. Journal of Mathematics
4. Order, A Journal on the Theory of Ordered Sets and its Applications
5. Sultan Qaboos University Journal for Science (**SQUJS**)
6. Nonlinear Functional Analysis and Applications

### **XIII. Award and Grants**

1. Scholarship from Hashemite University to get a M.Sc. degree in mathematics and

- Statistics from the University of Western Sydney (1999-2002).
2. Scholarship from Australian Government to get a Ph.D. degree in mathematics from Curtin University (2002-2007).
  3. Research grant from Yarmouk University to fund the project titled "Edge-maximal Hamiltonian graphs containing no  $\theta_{2^{k+1}}$ -graph" (2010-2011).
  4. Research grant from Yarmouk University to fund the project titled "Some open problems in extremal graphs" (2011-2012).