

C U R R I C U L U M V I T A E

Anwar A. Al-Badarneh



Personal Information

Anwar A. Al-Badarneh (Formerly: Al-Nayef).
Jordanian nationality, born in July 1960, Jordan.
Married with 6 children.

Career Objective

To be an innovative and productive either individually or as a team member through the application of my academic skills and educational experience.

Academic Ranking

1. Professor of mathematics in the department of Mathematics and Statistics at Mutah University (Jordan), from August 19, 2015 till now.
2. Associate professor of mathematics in the department of Mathematics and Statistics at Mutah University (Jordan), from February 8, 2010 up to August 18, 2015.
3. Associate professor of mathematics in the department of Mathematics at Sohar University (Oman) from September 1, 2008 up to February 7, 2010.
4. Associate professor of mathematics in the department of Mathematics and Physics at Qatar University (Qatar) from September 4, 2005 up to September 3, 2008.
5. Associate professor of mathematics in the Department of Mathematics and Statistics at Mutah University (Jordan) from May 27, 2003 up to August 31, 2005.
6. Assistant professor of mathematics in the Department of Mathematics and Statistics at Mutah University from May 13, 1998 up to May 26, 2003.

7. Full-time lecturer (as assistant professor) of mathematics in the Department of Mathematics and Statistics at Mutah University from March 22, 1998 up to May 12, 1998.

8. Full-time lecturer of mathematics in the Department of Mathematics and Statistics at Mutah University from September 1991 up to August 1994.

9. Full-time lecturer of mathematics and mathematics education in *Huwwara* Community College (Jordan) in the academic years 1990 and 1991.

The period of PhD studies was from August 1994 up to March 1998.

Education and Qualifications

1. PhD Degree:

- A doctor of philosophy degree (PhD) in mathematics in 1998 from Deakin University-Australia.
- Specific field of study: Applied Functional Analysis.
- PhD thesis title: *Semi-Hyperbolic Mappings in Banach Spaces*.

2. Master degree:

- A master Degree (MSc) in mathematics in 1989 from Middle East Technical University-Turkey.
- Specific field of study: Functional Analysis.
- MSc thesis title: *Bounded Bilinear Maps in Fréchet Spaces* .

3. Bachelor degree:

- A bachelor Degree (BSc) in mathematics in 1983 from Yarmouk University-Jordan.
- Major: Mathematics.
- Minor: Computer Science.

Work Experience

Head of the Department of Mathematics and Statistics at Mutah University, September 1, 2000 up to August 31, 2001.

Research Interests

1. Dynamical Systems.
2. Delay Differential Equations.
3. Functional Analysis and its Applications.
4. Topology

Publications

Books

1. An Introduction to Real Analysis, Dar Al-Amal, Jordan, 1991. (In Arabic, 221 pp)
2. An Introduction to Set Theory, Dar Al-Shoruq, Jordan, 2002. (In English, 212 pp)

Research Papers

1. Osama A. Al-Khatatneh, Anwar A. Al-Badarneh, Persistence of Asymptotic Behavior of Discrete Dynamical Systems via Conjugacy. Sent for publication.
2. Osama A. Al-Khatatneh, Anwar A. Al-Badarneh, Asymptotic Behavior in the Product of Discrete Dynamical Systems. Sent for publication.
3. Anwar A. Al-Badarneh, On the Dynamics of Zadeh Extensions and Set Valued Induced Maps . *Canadian Journal of Pure and Applied Sciences*, Vol. 9, No. 3, October 2015, pp. 3673-3679.
4. Anwar A. Al-Badarneh, Bi-Shadowing of Some Classes of Single-Valued Almost Contractions. *Applied Mathematical Sciences*, Vol. 9, 2015, no. 58, 2859-2869.
5. Anwar A. Al-Badarneh, On Bi-Shadowing of Subclasses of Almost Contractive Type Mappings. *CJPAS, Canadian Journal of Pure Applied Sciences*, Vol 9, No 2, June 2015, pp. 3449-3453.
6. Anwar A. Al-Badarneh, Bi-shadowing of Contractive Set-Valued Mappings with Application to IFS's: the Non-Convex Case. *Jordan Journal of Mathematics & Statistics*, Vol. 4 No.7 (2014), pp.287-301.
7. Anwar A. Al-Badarneh, Bi-Shadowing of Contractive Set-Valued Mappings: the Convex Case. *European J. of Scientific Research*, Vol.120 No.2 (2014), pp.277-281.
8. Anwar A. Al-Badarneh, Shadowing of weakly contractive and weakly Kannan mappings with respect to a w-distance. *Mutah Lil-Buhuth wad-Dirasat-Natural and Applied Sciences Series*, Vol. 29. No 1, (2014), 19-28.
9. Anwar Al-Nayef, Omar Jaradat, Ahmad Al-Omari, On Properties of Strongly Irresolute Topological Vector Spaces. *Al-Manarah Journal*, Vol. 14, No. 3, (2008), 123-130.
10. Anwar A. Al-Badarneh and Rabaa K. Maaitah, Robustness of Solutions of Linear Differential Equations with Infinite Delay, *Journal of Applied Mathematics and Stochastic Analysis*, 2006.

11. Talal Al-Hawary and Anwar A. Al-Nayef, Irresolute-Topological Vector Spaces. *Al-Manarah Journal*, 9 (2), (2003), 119-126.
12. Anwar A. Al-Nayef, Cocycle Attractors for Differential Equations with Infinite Delay. *Far East Journal of Dynamical Systems*. **5** (1)(2003),77-86.
13. Anwar A. Al-Nayef, Semi-Hyperbolic Mappings and Robustness of Chaotic Behaviour. *Mutah Journal for Research and Studies, Natural and Applied Sciences Series*. Vol. **17**, No. 1 (2002), 85-98.
14. Anwar A. Al-Nayef, On the spectrum of ψ -contracting operators. *Journal of Applied Mathematics and Stochastic Analysis*, **14**:3 (2001), 303-308.
15. Anwar A. Al-Nayef, Bi-shadowing of infinite trajectories for difference equations in Banach spaces. *Journal of Difference Equations and Applications*, **7** (2001), 577-585.
16. A. A. Al-Nayef, A. Pokrovskii, M. Suzuki and T. Suzuki, Perturbation in Analog Dynamic Memory System. (*Deakin University Technical Report*, TR M98/01) (2001)
17. Anwar A. Al-Nayef, T. A. Al-Hawary, On Irresolute-Topological Vector Spaces. *Math. Sci. res. Hot Line*, 5(10)(2001), 49-53.
18. A. A. Al-Nayef, P. E. Kloeden and A. V. Pokrovskii, Expansivity of non-smooth functional differential equations. *Journal of Mathematical Analysis and Applications*, **208** (1997), 453-461.
19. A. A. Al-Nayef, P. E. Kloeden and A. V. Pokrovskii, Semi-hyperbolic mappings, condensing operators and neutral delay equations. *Journal of Differential Equations*, **137** (1997), 320-339.
20. A. A. Al-Nayef, P. Diamond, P. E. Kloeden, V. Kozyakin, and A. Pokrovskii, Bi-shadowing and delay equations. *Journal of Dynamics & Stability of Systems*, Vol. **11** (1996), 121-134.

Higher Studies Supervision

1. Supervised the following master students in the Department of Mathematics and Statistics/Mutah University, in the field of dynamical systems:
 - i. Rabaa K. Maaitah in 2003. Thesis title: Semi-hyperbolicity and differential equations with infinite delay. The following paper was extracted from this thesis: Robustness of Solutions of Linear Differential Equations with Infinite Delay, *Journal of Applied Mathematics and Stochastic Analysis*, 2006.
 - ii. Osama A. Khatatneh in 2016. Thesis title: On the Asymptotic Behavior of Discrete-Time Dynamical Systems Using Bi-Shadowing Properties. Papers extracted from this thesis are:

- Osama A. Al-Khatatneh, Anwar A. Al-Badarneh, Asymptotic Behavior in the Product of Discrete Dynamical Systems. Sent for publication.
 - Osama A. Al-Khatatneh, Anwar A. Al-Badarneh, Persistence of Asymptotic Behavior of Discrete Dynamical Systems via Conjugacy. Sent for publication.
2. A member in the jury for several master students in the Department of Mathematics and Statistics/Mutah University.

Conferences, Workshops and Committees

1. International Conference on Mathematical Sciences: Integrating mathematical sciences within society, 28-29 Nov 2007, Malaysia. Paper Title: Robustness of Solutions of Linear Differential Equations with Infinite Delay.
2. The First Physics and Mathematics Forum, College of Arts and Sciences, Department of Mathematics and Physics, April 25-26, 2007, Qatar. Paper Title: Financial Mathematics: Present and Future Scopes.
3. The 33rd ANZIAM Applied Mathematics Conference (ANZIAM '97), Victoria-Australia, 2-6 February 1997. Paper Title: Bi-Shadowing and Delay Equations.
4. Attended some workshops that were conducted in Qatar University. As an example:
 - A workshop on "Technology in Teaching", in March 2007.
 - A workshop on "Using Blackboard in Teaching (I)", in 2007.
 - A workshop on "Using Blackboard in Teaching (II)", in February 2008.
 - A workshop on "Analyzing Students Grades Statistically", in 2007.
 - A workshop on "namat" software to manage courses in 2006.
5. Committees in Qatar University:
 - Coordinator of the Financial Mathematics Committee, 2007.
 - Coordinator of the Calculus Syllabus Reform Committee, 2006.
 - Coordinator of the Mathematics for Computer Science Students reform Committee, 2008.
 - Member of the Text Books Committee, 2007.
 - Member of the Academic Performance Enhancement Committee, 2007.
 - Member of the Strategic Planning Committee, 2006.
 - Coordinator of the Seminars Committee, 2006.
 - Member of the Promotion Committees, 2006 and 2007.
6. Committees in Mutah University:
 - Coordinator of the Study Plan Committee in the Department of Mathematics and Statistics, 2015 and 2016.
 - Coordinator of the Study Plan Committee in the Faculty of Science, 2014.
 - Coordinator of the Calculus Courses Review Committee, 2005.

- Coordinator of the Students Affairs Committee in the Department, 2001-2004.
- Member of the Syllabus and Study Plan Committee for Graduate Studies in Mathematics, 2000.
- Member of the Research Committee in the Faculty of Science, 2004.

Teaching Experience

1. More than Twelve years teaching experience (1998-2005 and 2010-till now) in the Department of Mathematics and Statistics/ Mu'tah University. Courses taught include:

No	Course	Reference
1	Real Analysis 1	Bartle and Sherbert, 3rd ed
2	Real Analysis 2	Bartle and Sherbert, 3rd ed
3	Functional Analysis	E . Kreyszig
4	Advanced Functional Analysis For Graduate Students	E . Kreyszig, H.L. Royden, J. B. Conway
5	Theory of Differential Equations 1 For Graduate Students	Birkhoff, Rota, Braun E. Codington
6	Complex Analysis 1	J . Brown and Churchill
7	Ordinary Differential Equations 1	Denis Zill
8	Numerical Analysis 1	R . Burden and J . Faires
9	Linear Algebra 1	Howard Anton
10	Linear Algebra 2	S.Grossman and H. Antone
11	Set Theory	My Book and Lin and Lin
12	Topology 1	Paul Long
13	Calculus I	Howard Anton, 6th ed
14	Calculus II	Howard Anton, 6th ed
15	Calculus III	Howard Anton, 6th ed

Courses that are most frequently taught are: Set Theory, Real Analysis 1, Real Analysis 2, Linear Algebra 2 and Calculus Courses.

2. Three years teaching experience in the Department of Mathematics and Physics at Qatar University, 2005-2008. Courses taught include:

No	Course	Reference
1	Real Analysis 1	Bartle and Sherbert, 3rd ed
2	Set Theory	My Book and Lin and Lin
3	Calculus I	Howard Anton, 6th ed
4	Calculus II	Howard Anton, 6th ed
5	Calculus III	Howard Anton, 6th ed
6	Calculus IV	Howard Anton, 6th ed
7	Math for CS Students	Howard Anton, and other refs.
8	Applied Mathematics	Personal Notes

Courses that are most frequently taught are: Set Theory, Real Analysis and Calculus Courses.

3. Three semesters teaching experience (Sep. 2008 - Feb. 2010) in the department of Mathematics at Sohar University/Oman. Courses taught include: Set Theory, Real Analysis, Topology, Linear Algebra, Numerical Analysis, Operations Research, History of Mathematics and Calculus Courses.

4. Three years teaching experience (1991-1994, before the PhD) in teaching as a full-time lecturer in the department of Mathematics and Statistics/Mutah university. Courses taught include: Calculus I,II and III. Two courses for Economics and Management Faculty students; General Mathematics and Principles of Statistics.

5. Two years teaching experience (1990-1991) as a full-time lecturer in the *Huwwara* Community College in Jordan. Courses taught include: Calculus courses, principles of mathematics, real analysis 1 and 2, linear algebra, abstract algebra, number theory, principle of statistics and Mathematics Teaching Methods.

Teaching Philosophy

My teaching philosophy starts with the commitment to the development of students and making the efforts to *guide* them to learn. Students can learn more if

they feel that they are active part of the learning process. I believe that the best way to do this is by:

1. Creating actions of motivation as it helps students to get involve in the learning process.
2. Maintaining a cooperative learning environment in which students' can participate and engage in the process.

Moreover, the instructor must find appropriate techniques to create such a motivated and cooperative environments. Therefore I believe to provide a motivated and a cooperative learning environment that encourages students to learn by involvement.

Computer Skills

1. A minor degree in computer science during bachelor studies.
2. Mutah International Computer Driving License (Mutah ICDL).
3. Programming Languages: BASIC and FORTRAN.
4. Packages: Maple and Mathematica.
5. Word Processing: \LaTeX and MSWord.
6. Workshops in Blackboard I and II. Also a workshop in using Technology in Teaching.

References

1. Prof. Dr. Peter E. Kloeden Fachbereich Mathematik, Johann Wolfgang Goethe Universitat, D-60054 Frankfurt am Main, Germany, e-mail: kloeden@math.uni-frankfurt.de
2. Prof. Dr. Shaher M. Momani, University of Jordan, Faculty of Science/ Dean of the Faculty. Tel: +962 6 5355000, e-mail: s.momani@ju.edu.jo
3. Prof. Dr. Ahmad Al-Rhayyel, Department of Mathematics, Yarmouk University, Irbid-Jordan, e-mail: alrhayyel@yahoo.com and Al-Rhayyel@yu.edu.jo.

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