

# Curriculum vitae



## 1. Personal Data:

**Name:** Abdalla Ahmed Tallafha

**Date of birth:** 15-2-1964

**Nationality:** Jordanian

**Sex:** Male

**Marital status:** Married

**No. of children:** six

**Address:** Dept. of Mathematics, The University of Jordan.

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## 2. Academic Qualifications:

<u>Degree</u>	<u>Specialization</u>	<u>Institute</u>	<u>C. Average</u>	<u>Date of grad.</u>
Ph. D.	Mathematics (Analysis, Functional)	Middle East Technical Univ. (Turkey)	3.98/4	1992
M. Sc.	Mathematics (Analysis, Functional)	Yarmouk University Jordan	93.6/100	1988
B. Sc.	Mathematics	Yarmouk University	89.1/100	1986

**Title of Ph.D. Thesis:** Local Imbedding and Decomposition Theorems.

**Title of Master Thesis:** Isomorphism's with Small Bounds.

**Languages:** Arabic (native), English and Turkish.  
English was the language of study in all degrees.

### 3. **Professional Experience** :

<b><u>Position Held</u></b>	<b><u>Name of Institute</u></b>	<b><u>Date</u></b>
Full Prof.	The University of Jordan	Mar. 2016 – Now
Associated Professor	The University of Jordan	Sep.2005-Mar. 2016
Associated Professor	Qatar University	Mar. 2000-Sup.2005
Assistant Professor	Qatar University	Mar. 1998-Mar.2000.
Assistant Professor	Yarmouk University	Sep. 1997-Mar1998.
Assistant Professor	Al al-Bayt University (One year leave from Yarmouk University).	Sep.1996- Sep 1997.
Assistant professor	Yarmouk University	Sep.1993- Sep 1996.
Full Time Lecturer	Yarmouk University	Sep.1992- Sep 1993.
Instructor	Middle East Tech. Univ.	Sep.1988- Jun. 1992

### 4. **Thesis supervised at master's level:**

- a) Decomposition theorems in kothe spaces. (Functional Analysis). Wasfi Shatanawi.
- b) Almost  $\lambda$ -DH spaces. (Topology). Ahmed Alrawashdeh.
- c) Some Generalizations of Lindelof spaces. (Topology). Anwar Alfawakhreh.
- d) Best constant in Sobolev Inequality. (Functional Analysis). Assem Almomani.
- e) Common fixed point in complete metric spaces. (Analysis). Najla Almrakhi.
- f) Proximinal Sets in Semi-linear Uniform Spaces, (Analysis). *Mohannad Abdel Fattah.*
- g) Fixed Point in Modified Semi-linear Uniform Spaces, (Analysis). *Rafe Alraba.*

- h) Fixed point in b- metric spaces, (Analysis). Ahmad Saifan.
- i) Common fixed point in b- metric spaces, (Analysis). Al Motsim Hassan.

### **5. Thesis supervised at Ph. D. level:**

- a) Fixed point theory in semi-linear uniform spaces.(Topology and Analysis), Amani Rawashdeh.
- b) Common fixed point theorems in generalized metric spaces. (Topology and Analysis), Neveen Al-Zyoud.
- c) Fixed point with  $\Omega$ - distance, (Analysis). Anwar Batiha.
- d) Fixed and Common fixed point throw  $\omega$ - distance mapping, (Analysis). Tariq Qawasmeh.
- e) Fixed point theorems in extended b- metric spaces, (Analysis). Eman Bashaayreh.
- f) Fixed and common fixed point results for new contraction mappings via  $\omega t$  distance, (Analysis). Al Saeed Atalawi
- g) Common fixed point theorems for dominating and weak annihilator mappings in b- metric spaces, (Analysis). Radia Bu Hafs.
- h) Common fixed point on b- metric spaces using weak c contraction mappings, (Analysis).Hana' Kreem.
- i) Best proximity point in a complete b- metric spaces, (Analysis). Monther Al Momani.
- j) Common fixed theorems in a frame of an extended quasi b- metric spaces, Using extended  $\omega t$  contraction mapping, (Analysis). Amenah Razazgy.
- k) Fixed point with application in Economics, (Analysis). Mohammad Mossa Amr.
- l) Ultra generalized metric spaces and some fixed point results, (Analysis). Asma Sawayiah.
- m) Fixed point results in Ultra generalized b- metric spaces using rational type contraction, (Analysis). Reham Al Garaleh.
- n) Fixed point theorems on complete metric spaces using new types of contractions, (Analysis).Eslam Al Qudah.

### **6. Courses Taught:**

#### ***a) Under Graduate Level at Yarmouk University.***

Calculus I, II, III, Differential Equations (Ord). Linear Algebra, Euclidean Geometry, Real Analysis I, II, Complex Analysis I, II, History of Mathematics, Functional Analysis, General topology I,II.

#### ***b) Graduate level at Yarmouk University.***

Integration and Measure Theory Advance Functional Analysis, Selected Topics in Functional Analysis.

**c) Under Graduate level at AL Al-Bayt University.**

Calculus I, II, III, Statistical Methods, Real Analysis I.

**d) Graduate Level at AL Al-Bayt University.**

Integration and Measure Theory.

**e) Under Graduate Level at Qatar University.**

Calculus I, II, III, And IV, Calculus for engineering I, II, III, IV, And V, Calculus for Biology, Statistics for non science student, Foundation of Mathematics, Introduction to Real Analysis, Real Analysis (I, II), Complex Analysis (I,II), Modern Geometry, Topology, Functional Analysis.

**f) Under Graduate Level at the University of Jordan.**

Calculus I, II, III. Mathematics for Engineering. Mathematics for Economics. Foundation of Mathematics. Real Analysis. None Euclidian Geometry. Mathematical Analysis I, II. Complex Analysis. Set Theory. Advanced Set Theory. History of Mathematics.

**g) Graduate Level at the University of Jordan.**

Real Analysis(M.Sc. and Ph.D.), Complex Analysis(M.Sc. and Ph.D.), Functional Analysis(M.Sc. and Ph.D.), Operator Theory( Ph.D.), General Topology(M.Sc), Selected topics in Functional Analysis (M.Sc. and Ph.D.).

**7. Field of specialization:**

Analysis (Functional Analysis). General Topology.

The precise Topics of my Research are:

- i) Sequence spaces (Kothe spaces).
- ii) Theory of Bases and Schauder Decomposition of Banach and Topological Spaces.
- iii) General Topology. (C.D.H. Spaces, Toronto Spaces).
- iv) Uniform spaces.
- v) Simi- linear uniform spaces.
- vi) Conformable Fractional Derivatives.
- vii) Fixed and common fixed point theory.

## **8. Publications:**

- 1) On Multiplicatively Stable Weak  $G_\infty$  - Spaces, J. of Inst. Of Math. and Computer Sciences (Math Series). Vol.6, no. 3(1993), 223-225.
- 2) Some Classes of Discrete Toronto Spaces, J. of Inst. of Math. And Computer Sciences (Math. Series) Vol.7, no. 6 (1994).
- 3) Local Imbedding and PN- Spaces, Turkish J. of Math. 19 (1995), 275-282).
- 4) Open Problems in Bases Theory, Math Stud. J. V. 64 (1995).
- 5) Complementary Subspaces Isomorphic to a Nuclear  $G_\infty$ -space, Math.Sc. Res. Hot-Line, (U.S.A). 2(3) (1998), 27-40.
- 6)  $\lambda$  - Dense Homogeneous Spaces, J. Of Basic Sc. Vo1. 26, 2(August 1999).
- 7) Countable Dense Homogeneous Bitopological Spaces, Turkish Journal of Mathematics, vol.e (23) No2, (1999), 233-242.
- 8) Classification of locally Connected Toronto Spaces, *Far East J. Math. Sci. (FJMS)* 3(4) (2001), 657-661.
- 9) Countable Dense Homogeneous Bitopological Spaces and Lower Separation Axioms. *Saitama Mathematical Journal*, Volume 21. (2003), 33-39.
- 10) Strong and Weak n- Homogeneous Spaces, *Qatar University Science Journal*, Vol.24, (2004).5-11.
- 11) Closurely Ordered Countable Sets and Application. *Global Journal of Pure and Applied Mathematics*.Vol.1 No.2 (2005), pp.177-182, ISSN 0973-1768.
- 12) On Decomposition Method and PN-Spaces, *Al-Manarah for Research and Studies (Basic Sciences)*, Vol12, No.2, (2006), 185-197.
- 13) On Quasi –  $\lambda$ - Nuclearity. *Scientiae Mathematicae Japonicae Online*, e-2007, pp. 1-7. ISSN 13456-0862.
- 14) Modelling and Analysis of Stage –Structured Population Model with State-Dependent Maturation Delay and Harvesting. *Int. Journal of Math. Analysis*, Vol. 1, (2007), No. 8, pp. 391-407. ISSN 1312-8876.
- 15) Best Approximation in Uniformity Type Spaces. *Eur. J, Pure Appl. Math* Vol. 2, No.2 (2009), pp. 231-238.

- 16) New Types of Almost Countable Dense Homogeneous Space. Int. J. Math. Math. Sci, (2010), ID 375293, 11 pp.
- 17) Some Properties of Semi-Linear Uniform Spaces. Boletim da sociedade paranaense de matematica, Vol. 29, No. 2 (2011). 9-14.
- 18)  $\alpha$ ,  $\beta$ ,  $\gamma$ - Orthogonality. Jordan Journal of Mathematics and Statistics. (JJMS) Vol. 4, No. 2(2011). ISSN 2075-7905.
- 19) Open Problems in Semi-Linear Uniform Spaces. Journal of Applied Functional Analysis – Jafa, vol. 8, No.2 (2013), 223-228. Eudoxus Press, LLC.
- 20) Fixed point in semi-linear uniform space. European Journal of Mathematical Sciences, Vol. 2, No. 3 (2013), 334-340. ISSN 2147-5512.
- 21) Fixed Point in a Non-Metrizable Space. part of the proceedings volume " Computational Analysis: Contributions from AMAT, Ankara, May 2015" in Springer- New York. Chapter 5. 65-74.
- 22) Total and Directional Fractional Derivatives. International Journal of Pure and Applied Mathematics. , Vol. 107, No. 4 (2016), 1037- 1051. ISSN 1311-8080(printed version), 1314-3395(on line version).
- 23) Semi- linear Uniform Spaces from A to Z, Far East Journal of Mathematical Sciences, 102(2). 433-452, 2017.
- 24) Fixed Point in Modified Semi-Linear Uniform Spaces, Global Journal of Pure and Applied Mathematics 13(9):4461-4476, 2017.
- 25) Common Fixed Point in  $D^*$  Metric Spaces, Journal of Semi group Theory and Applications, 2019, 2019:6. ISSN 2051-2937.
- 26) Fixed and Common Fixed Point Theorems Through Modified  $\omega$ -Distance Mappings, Nonlinear Functional Analysis and Applications, Vol. 24, No. 2 (2019), pp. 221-239. ISSN: 1229-1595(print), 2466-0973(online).
- 27) Modified Semi-Linear Uniform Spaces and New Types of Contractions, Journal of Semi Group Theory and Applications, 2019(2019), 4 ISSN: 2051-2937.
- 28) Fixed Point Theorems Through Modified  $\omega$ -Distance and Application to Nontrivial Equations. axioms, May 2019, DOI: 10.3390/axioms8020057.

- 29) Common Fixed Point Results for Rational  $(\alpha, \beta)$   $\phi$ - $m\omega$  Contractions in Complete Quasi Metric Spaces, mathematics, April 2019, DOI:10.3390/math7050392.
- 30) Four-Step Iteration Scheme to Approximate Fixed Point for Weak Contractions. Computers, Materials & Continua CMC, vol.64, no.3, pp.1491-1504, 2020 CMC. doi:10.32604/cmc.2020.010365.
- 31) Fixed Point Results with Simulation Functions, Nonlinear Functional Analysis and Applications Vol. 25, No. 1 (2020), pp. 13-23 ISSN: 1229-1595(print), 2466-0973(online).
- 32) Fixed Point Results With  $\Omega$  – distance by Utilizing Simulation Functions, Italian Journal of Pure and Applied Mathematics– N.43-2020 (185-1960).
- 33)  $\Phi$ -Contraction and Some Fixed Point Results Vs Modified  $\omega$ -Distance Mappings in the Frame of Complete Quasi Metric Spaces and Applications. International Journal of Electrical and Computer Engineering (IJECE) Vol.10, No.4, August 2020, pp.3839~3853 ISSN:2088-8708. DOI:10.11591/ijece.v10i4.pp3839-3853.
- 34) Coincidence and Fixed Point Results for Generalized Weak Contraction Mapping on b-Metric Spaces. Nonlinear Functional Analysis and Applications Vol. 26, No. 1 (2021), pp. 177-195 ISSN: 1229-1595(print), 2466-0973(online).
- 35) New Contractions and Some Fixed Point Results with Application Based on Extended Quasi b-Metric Spaces. U.P.B. Sci. Bull., Series A, Vol. 83, Iss. 2, 2021 ISSN 1223-702.
- 36) Fixed Point Results and  $(\alpha, \beta)$  –Triangular Admissibility in the Frame of Complete Extended b-Metric Spaces and Application, U.P.B.Sci. Bull., series A, Vol.83, ISSN 1223-6027, 2021.
- 37) Some Coincidences Point and Some Fixed Point Results in Order Metric Spaces and Application. Dynamic system and Applications, 30, 2021,143-156.
- 38) Some Fixed Point Results on Extended b-Metric Spaces by Utilizing c-Class functions. International Journal of applied mathematics, 2021.

- 39)  $\Phi$  - contraction and Some Fixed Point Results Via Modified  $w$ -Distance Mapping in the Frame of Complete Quasi Metric Spaces and Applications. International journal of Electrical and computer engineering, Vol. 10, No.4, 3839-3853, ISSN: 2088-8708.
- 40) Common Fixed Point Theorems with  $w_t$ -Distance for Mapping of Cyclic Form, Dynamic system and applications, 30, 2021, No.3, 425-438.
- 41) Fixed Point in Semi-Linear Uniform Spaces and Convex Metric Spaces, Iranian Journal of Mathematical Sciences and Informatics, 16 (2), 11-23, 2021.
- 42) Fixed Point Theorems in Ordered  $b$ -Metric SPACES with Alternating Distance Functions. Nonlinear Functional Analysis and Applications Vol. 26, No. 3 (2021), pp. 581-600 ISSN: 1229-1595(print), 2466-0973(online).
- 43) Common Fixed Point Theorems for Set-Valued Maps on Modular  $B$ -Gauge Spaces. Palestine Journal of Mathematics Vol. 11(3) (2022), 626–635.
- 44) Coincidence and fixed point results for  $(\Psi, L)$ - $M$  –weak contraction mapping on  $M$   $b$ -metric spaces, ITALIAN JOURNAL OF PURE AND APPLIED MATHEMATICS – N. 47–2022 (751–768).
- 45) FIXED POINT THEOREMS ON MODULAR FUZZY METRIC SPACES. U.P.B. Sci. Bull., Series A, Vol. 84, Iss. 1, 2022 ISSN 1223-7027.
- 46) Soft semi-linear uniform spaces and their perceptual application. Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology, Volume 44|Issue 3|2023pp 4175–4184.
- 47) Common Fixed Point Results Via  $A\vartheta$ - $\alpha$ -Contractions with a Pair and to Pairs of Self-Mappings in the Frame of an Extended Quasi  $b$ -Metric Space. AIMS Mathematics, 8(3): 7225–7241. DOI: 10.3934/math.2023363.
- 48) Generalization of  $\rho$ -Attractive Elements in Modular Function Spaces. WSEAS. TRANSACTIONS on MATHEMATICS DOI: 10.37394/23206.2023.22.10.
- 49) On some fixed point results using  $\mathcal{CG}$  simulation functions via  $w$ -distance with applications, Heliyon 10 (2024) e29345.

The following papers are submitted,

- 50) Modified Conformable Fractional Derivatives.
- 51) New contraction and some fixed point results based on extended quasi  $b$ - metric spaces.



## **9. Committees Memberships**

### ***a) Department Committees***

- 1 -Scholarship and appointment committee (Yarmouk University.).
- 2 -Qualifying exam committee (Yarmouk University and the University of Jordan).
- 3 -Library Committee (Yarmouk University and AL al-Bayt University.).
- 4 -Study Schedule Committee (Yarmouk University, AL al-Bayt University, Qatar University, and The University of Jordan).
- 5 -Development and Planning Committee (Yarmouk University).
- 6 -Seminar Committee (Al al-Bayt University.).
- 7 -Social Committee (Qatar University and The University of Jordan)
- 8 -Research Project organizer (Qatar University).
- 9 -Course Description Committees of several courses (Al- al-Bayt University, Qatar University and The University of Jordan).
- 10 - Books Committee (Qatar University).
- 11 – Accreditation Committee (The University of Jordan).
- 12 – The graduate program Committee (The University of Jordan).

### ***b) Faculty committees.***

- 1- Representative of the College of Science in the University Counsel. (The University of Jordan, academic years 2006-2007, 2014-2015 and 2019-2020).
- 2- Representative of the Department in the College of Science Counsel. (Yarmouk University and the University of Jordan 2007\2008 and 2017\2018).
- 3- Social Committee (Qatar University and The University of Jordan)
- 4- New Student Reception Committee. (The University of Jordan).
- 5- Reporter for the Elections of Students Committee at the University of Jordan. Academic Year 2005-2006, 2007-2008, 2008-2009, 2009-

2010, 2010-2011, 2011-2012, 202-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017.

- 6- Library committee. (Yarmouk University).
- 7- Computer Committee. (Yarmouk University).
- 8- Examination Committee. (Yarmouk University).
- 9- Investigation Committee. (The University of Jordan, 2016-2017, 2017-2018).

**c) Committees outside universities.**

- 1- Jordan Mathematical Society.
- 2- Turkish Mathematical Society.
- 3- Member of the developing education committee in certain schools in Jordan.

**10. Other Scientific Activities**

- (a) I was the external examiner for a Ph. D. student at Carleton University, Ottawa, Canada.
- (b) I was an examiner for certain M. Sc. Thesis in Analysis, Topology and Graph Theory in several universities.
- (c) I was an examiner for several Ph. D. Thesis in the University of Jordan.
- (d) I was a referee for text book of mathematics in Jordan for the 11<sup>th</sup> and 7<sup>th</sup> grade 2007.
- (e) I was a referee for text book of mathematics in Jordan for the 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade 2010.
- (f) I was a referee for several papers, in several Math. Journals.
- (g) I was a referee for several promotions.

**b) Conferences**

- 1- The Turkish Mathematical Society Annual Meeting. Turkey, 1990, 1992.

- 2- The Second Jordanian Mathematical Conference, Jordan, Sep. 1993.
- 3- The Thirty-five Science Week, Syria, Nov. 1995.
- 4- Teaching Calculus Using Computer, Jordan, April, 1996.
- 5- The Third Jordanian Mathematical Conference, Jordan, Sep. 1996.
- 6- The Annual Indian Mathematical Society Conference, India, Dec. 1997.
- 7- The Turkish Mathematical Society Annual Meeting. Turkey, 1998, 2005.
- 8- First International conference on applied mathematics and approximation theory (AMAT 2008). May 2008, Ankara Turkey.
- 9- Second International conference on applied mathematics and approximation theory (AMAT 2012). May 2012, Ankara Turkey.
- 10- Third International conference on applied mathematics and approximation theory (AMAT 2015). May 2015, Ankara Turkey.
- 11- The second international conference of Applied sciences and applications. June 2016. Istanbul- Turkey.
- 12- International Workshop on Mathematical Methods in Engineering, MME-2017, May 2017. Ankara Turkey.
- 13- 6<sup>th</sup> International conference of Recent Advances of Pure and Applied Mathematics, (ICRAPAM 2019), Jun, 2019. Istanbul Turkey.

**c) Seminars**

<b>Title</b>	<b>Institute</b>	<b>Date</b>
1- Generalized Hardy spaces.	The University of Jordan	Feb. 2016.
2- Kothe spaces. Complex case.	The University of Jordan	Feb. 2016.
3- Homogeneity and Beauty of Topology	the University of Jordan	April 2009.
4- Kothe and P. N. Spaces.	The University of Jordan	May 2006
5- Kothe spaces And Decomposition Methods.	Qatar University.	Apr.2002.
6- Completion of metric spaces.	Qatar University.	Apr. 1999.
7- Some generalizations of Lindelof Spaces.	Qatar University.	Dec.1998.

- 8- Convergent Theorems in Integration. Al al-Bayt University. Mar. 1997.
- 9- Introduction to Kothe Spaces. Al al-Bayt University. Sep 1996.
- 10-Local Imbedding and Decomposition Theorems. Yarmouk University. Sep 1992.

### **10. Academic Honors.**

- 1) Royal gift for being the first in the College of Sciences in B.Sc.
- 2) Royal gift for being the first in M. Sc.
- 3) Fellowship from Arab Student Aid International for being in Honor list in the Ph.D. program.