



Ayed H. H. Al e'damat C.V.



CURRICULUM VITAE

Ayed Hussein Huwail Al e'damat

June 2021

PERSONAL

Place of Birth Alkom Al Ahmar , Mafraq, Jordan
Date of Birth January 1, 1976
Marital Status Married
Nationality Jordanian
Work Address Department of Mathematics, College of Science,
Al-Hussein Bin Talal University, Ma'an, Jordan.
Phone: +962-3-2179000
E-mail: ayed.h.aledamat@ahu.edu.jo
Academic Rank (date) Associate Professor (2020)
Permanent Address Mafraq, Jordan. Cell Phone:+962-797550295.



ACADEMIC QUALIFICATIONS

2009 – 2013 **Ph.D.**, Mathematical Analysis, Damascus University, Damascus, Syria.
2002 – 2005 **M.Sc.**, Mathematics, AL al-Bayt University, Mafraq, Jordan.
1995 – 1999 **B.Sc.**, Mathematics, Yarmouk University, Irbid, Jordan.

SPECIALTY

General Specialization: Mathematics
Specialization : Mathematical Analysis\ Differential Equations

CAREER HISTORY

September 2014 –Present **Associate Professor**, Department of Mathematics, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.



ADMINISTRATIVE EXPERIENCE

Positions : MOE

Sep. 1999 – Sep. 2008	Mathematics Teacher , MOE.
Sep 2008 - Sep. 2014	Mathematics Supervisor, MOE.

Positions AHU

March 2017 - September 2018	Chairman of Mathematics Department, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan
-----------------------------	--

Committees

2014 - 2021	Member of the Mathematics Department Council.
2015-2016	Representative of the Mathematics Department in the College of Science Council.
2019-2020	Member of the Social Committee at the College of Science
2014-2020	Member of the Social Committee at the Mathematics Department.
2017-2021	Graduate Student Mathematics Committee, Member

PROFESSIONAL MEMBERSHIPS AND SERVICES

Membership(s)

- Member of the Alkom Al ahmar Sports Social Club.
- Member of the Alkom Al ahmar Association for Social Development.
- Member of Amnesty International.



Service(s)

- -

RESEARCH INTEREST

- Mathematical Analysis(Differential Equations, Numerical Analysis, Measure Theory, Functional Analysis).
- Computational Mathematics studies and modelling.

PUBLICATIONS

Peer-reviewed journal articles

- *Ayed al e'damat*, Approximate Analytical Solution for a Coupled System of Fractional Nonlinear Integrodifferential Equations by the RPS Method, Hindawi, Complexity Volume 2020, Article ID 1010382, 8 pages, <https://doi.org/10.1155/2020/101> , 2020.
- Ghaleb Gumah, Zuhier Altawallbeh, *Ayed Al e'damat*, and A.Ateiwi " An Alternative Proof of the Spectral Radius Inequality for Products of Hilbert Space Operators" *Australian Journal of Basic and Applied Sciences* .Vol. 8(18), PP. 462 – 465, 2014.
- *Ayed Al e'damat*, Analytical- numerical method for solving a class of two- point boundary value problems , *International Journal of Mathematical Analysis* , Vol. 9, no. 40 , 1987-2002 , 2015.
- I.V. Komashynska, M. Al-Smadi, A.M. Ateiwi and *Ayed Al e'damat* " Oscillations of solutions of nonlinear second-order stochastic differential equations", *Journal of computational analysis and applications* Vol.20, No. 5,p. 860-868, 2016.
- Ali Ateiwi, *Ayed Al e'damat*, Asad Freihat, Iryna Komashynska, Approximation scheme for handling coupled systems of Differential Equations within Reproducing Kernel Method, *Filomat*, 33; 2, page 599-615, 2019.
- *Ayed Al e'damat*, Ala' Alrawajf, Adeeb talafha, Ahmad Alhabahbeh, Ali Ateiwi, Numerical simulation of nonlinear fractional integrodifferential equations of Volterra



type via power series expansion, *Italian journal of pure and mathematics*, N. 43, page 944 – 957, 2020.

- Mohammad Q. Owaidat, Ahmed A. Qwasmeh, *Ayed Al e'damat*, Spanning Trees on Decorated Centered Cubic Lattices, *Applied mathematical sciences* Vo.9, no.25, 1335 – 1244, 2015.

Books and book chapters

- *Ayed Al e'damat* , Mohammed Al-Smadi , Iryna Komashynska, Ali Atewi and Ala' Alrawajf , Analytical-Numerical Solutions for First-Order Periodic Boundary Value Problems Using the Reproducing Kernel Algorithm. *Springer Proceedings in Mathematics & Statistics*, Volume 164, Springer International Publishing Switzerland 2016.

Patents

- N.A.

CONFERENCES AND PROCEEDINGS

- *The International Arab Conference on mathematics and computations "IACMC"*, Zarqa University, Jordan, Apr.23-25, 2014.
- *International Conference on Differential and Difference Equations and Applications* .Military academy, Amadora, Portugal, May 18-22, 2015.
- *International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017)* , Istanbul Commerce University, the Turkish Academy of Science (TUBA) , Kusadasi - AYDIN/TURKEY, May 11-15, 2017.
- 4. *The Euro – Arab Organization for Environment ,water, and Desert Researches, The Third International Conference of Science and Engeneering*, Antalya, Turkey, Octoper24 -28, 2019.
- *Ayed Al e'damat* , Mohammed Al-Smadi , Iryna Komashynska, Ali Atewi and Ala' Alrawajf , Analytical-Numerical Solutions for First-Order Periodic Boundary Value Problems Using the Reproducing Kernel Algorithm. *Springer Proceedings in Mathematics & Statistics*, Volume 164, Springer International Publishing Switzerland



2016.

TEACHING

Courses Taught-undergraduate

- Calculus1 (0302101), Al Hussein Bin Talal University .
- Pre-Calculus (0302099), Al Hussein Bin Talal University .
- History of Mathematics (0302100) Al Hussein Bin Talal University
- Calculus1 (0302101), Al Hussein Bin Talal University .
- Calculus2 (0302102), Al Hussein Bin Talal University .
- Calculus3 (0302201), Al Hussein Bin Talal University .
- Ordinary Differential Equation(0302203), Al Hussein Bin Talal University.
- Advanced Calculus (0302207), Al Hussein Bin Talal University .
- Real Analysis (0302215), Al Hussein Bin Talal University .
- Real Analysis1 (0302216), Al Hussein Bin Talal University .
- Real Analysis2 (0302316), Al Hussein Bin Talal University .
- Mathematical Analysis1 (0302315), Al Hussein Bin Talal University .
- Mathematical Analysis2 (0302415), Al Hussein Bin Talal University .
- Complex Analysis1 (0302312), Al Hussein Bin Talal University .
- Number Theory (0302343), Al Hussein Bin Talal University .
- Topology (0302362), Al Hussein Bin Talal University .
- Functional Analysis (0302412), Al Hussein Bin Talal University .

Courses Taught-postgraduate

- Measure Theory and Integration (0302611), Al Hussein Bin Talal University .
- Functional Analysis (0302612), Al Hussein Bin Talal University .



- Special Subjects in Functional Analysis (0302619), Al Hussein Bin Talal University .

SKILLS

Languages

- Arabic (native)
- English (excellent)

Computer Programs

- ICDL, Ministry of Education, Jordan.
- Mathematica, Zarqa University, Jordan .

Courses and workshops

- **End Note Program** (6 hours), Staff Development Center, Al Hussein Bin Talal University, **30/7/2017 - 1/8/2017**.
- **Development of competencies of the performance of faculty members**, (30 hours), Staff Development Center, Al Hussein Bin Talal University **4/2/2018 - 8/2/2018**.
- **The right bases in the teaching process**, (10 hours), Staff Development Center, Al Hussein Bin Talal University, **8/2/2018 - 14/2/2018**

Master thesis Supervisor:

1- Supervisor for Khaled Bakheet Al-Smeheen . A study of Bounded and Continuous Linear Operator in Random Normed Space . Al-Hussein Bin Talal University.

2- Supervisor for Salem Jihad Bni Ali, Sobolev space ; Theories and Applications . Al-Hussein Bin Talal University.

3-Supervisor for Ameera Saleh Batayneh, L_p Spaces ;Definitions,Properties and



Applications. Al-Hussein Bin Talal University.

4- Supervisor for Rojana Al nawafleh, STUDY ABOUT FREDHOLM OPERATORS IN SOBOLEV SPACES. Al-Hussein Bin Talal University.

5- Supervisor, Hala Saleh Al saeedyeen SOME IMPORTANT INEQUALITES IN SOBOLEV SPACES AND IT'S APPLICATIONS. Al-Hussein Bin Talal University.

6- Supervisor, Rawan Al darawsheh , A Study About Compact Operators and Singular Value Decoposition In some Measur Spaces . Al-Hussein Bin Talal University.

7- Supervisor, Suhaib Al Harahsheh, A Study about Fourier Analysis and Measure Theory. Al-Hussein Bin Talal University.

8- Supervisor, Malak Al Sa'aidan , A Study about Convergence in Distribution For The Probability Spaces in Mathematical Analysis . Al-Hussein Bin Talal University.

9- Supervisor, ABDULLAH HIKMAT MARDI AL-KHRESHAH, CONTINUITY OF SOLUTIONS TO BOUNDARY-VALUE PROBLEMS FOR SYSTEMS OF ORDINARY DIFFERENTIAL EQUATIONS IN SOBOLEV SPACES . Al-Hussein Bin Talal University.