Curriculum Vitae



Beirut Arab University
Faculty of Science
Department of Mathematics and Computer Science

MAHER JNEID

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Languages: English, French, Arabic

Ph.D. in Mathematics

Education

September 2011 – July 2014 **PHD in Mathematics**

Research Area: Control Theory

Thesis title: Partial Complete Controllability of Semi-linear Control Systems

Advisor: Prof. Dr. Agamirza E. Bashirov

Department of Mathematics and Computer Science, Eastern Mediterranean University, Famagusta, North Cyprus, Via Mersin 10, TURKEY.

September 2010 **Master of Research in Applied Mathematics**

Research Area: image processing

Thesis title: Applying Partial Differential Equations on Image Compression Lebanese University-Doctoral School for Sciences and Technologies, Tripoli, Lebanon.

July 2009 **Master 1 in Pure Mathematics**

Lebanese University, Faculty of Sciences, Hadath, Lebanon.

July 2008 **Bachelor in Pure Mathematics**

Lebanese University, Faculty of Sciences, Hadath, Lebanon.

July 2005 **Lebanese Baccalaureate – Life Sciences Track**

High School Akkar El Atika Akkar, Lebanon.

Academic Experiences

October 2026 – present **Professor of Pure Mathematics, Beirut Arab University**

September 2020 – 2026 **Associate Professor of Pure Mathematics, Beirut Arab University**

September 2014 - 2020 **Assistant Professor of Pure Mathematics, Beirut Arab University**.

September 2019-Present **Coordinator of Mathematics program, Beirut Arab University-Tripoli campus**

September 2012-July 2014 Lecturer and Research Assistant **Eastern Mediterranean University**

Teaching

Beirut Arab University:

Undergraduate Courses: Introduction to Calculus and Analytic Geometry II (MATH111), Introduction to Algebra(MATH112), Discrete Mathematics (MATH345), Set Theory (MATH353) Abstract Algebra II (MATH442), Ordinary Differential Equations (MATH244), Multivariable Calculus (MATH248), Real Analysis I (MATH246) Real Analysis II (MATH344), Abstract Algebra I (MATH346), Numerical Methods (MATH348), Functional Analysis (MATH408), Linear Algebra (MATH341), Special Theory Of Relativity (MATH313), Abstract Algebra I (MATH346), Operations Research (MATH324), Function of Complex Variables (MATH304), Differential Geometry (MATH305), Computational Methods (MATH317), Boundary Value Problems (MATH409), Calculus and Analytic Geometry II (MATH241), Introduction to Calculus and Analytic Geometry I (MATH110).

Postgraduate Courses: Applied Statistics (MATH645)

Eastern Mediterranean University: delivering tutorials for the following courses:

Mathematics for Business and Economics-I (Math 103). Mathematics for Business and Economics-II (Math104). Mathematics for Arts and Social Sciences (Math 105). Calculus-I (Math 151). Calculus -II (Math 152). Real Analysis-I (Math 209). Basic Mathematics (Math 133). Mathematics (Math 155).

Technical Skills

Programming Languages: C, Matlab.

Research Experience

Over the past few years, my research has primarily focused on examining the controllability concept of fractional control systems in finite and infinite dimensional spaces. I have utilized various methods to study this problem, including fixed point theorems, rank conditions, and more. My work has involved in investigating the controllability of fractional control systems, which differ from typical integer-order control systems, in both finite and infinite dimensional vector spaces. The core focus has been applying mathematical techniques like fixed point theorems and rank conditions to analyze the controllability of these fractional systems.

Scientific Publications

1. Maher Jneid and Abir Chaouk, Analytical approximate solutions for 2D fractional PDEs: A conformable fractional reduced differential transform method, Book Editor(s):Mamta Kapoor, Geeta Arora, Differential Equations in the Era of Computational Techniques, Scrivener Publishing LLC and Wiley.
2. Maher Jneid, Rola Masri, Exact controllability of generalized conformable integrodifferential system via contraction mapping theorem, Results in Control and Optimization, 2026, 100711, https://doi.org/10.1016/j.rico.2026.100711.
3. Maher Jneid, On Partial C- and S-Controllability Results for Semilinear Stochastic Systems, Journal of Function Spaces, 2026, 4902704, 8 pages, 2026. https://doi.org/10.1155/jofs/4902704
4. Maher Jneid and Abir Chaouk, Analytical Approximate Solutions for 2D Fractional PDEs: A Conformable Fractional Reduced Differential Transform Method, Differential equations in Era of Advanced Computational Science, Scrivener Publishing Book Chapter(accepted)
5. M. Jneid, Investigation on the Controllability of Semilinear Integrodifferential Fractional Stochastic Control System in Conformable Sense With Impulses, Journal of Mathematics, Volume 2025 | Article ID 9042952.
6. S.El Samad, M. Jneid, H. Yassine, S. Marhaba, Light polarization effect on the extinction spectrum of silver nanostructures, Physics Letters A, Volume 546, 2025130509, ISSN 0375-9601,
7. M. Jneid, M. Daher, M. Awad, S. Marhaba, A Novel Approach for Time-Local Fractional Solutions of Certain Nonlinear Partial Differential Equations in Fractal Dimension, Int. J. Anal. Appl., 22 (2024), 207.
8. M. Jneid, Results on partial approximate controllability of fractional control systems in Hilbert spaces with conformable derivatives, AIP Advances 14, Article ID 025128, 2024.
9. M. Jneid, On partial exact controllability of fractional control systems in conformable sense, Journal of Mathematics, Volume 2024 | Article ID 9531298.
10. M. Jneid, Solving Newell-Whitehead-Segel, Stefan and nonlinear gas dynamics equations via modified Laplace variational iteration technique, AIP Conf. Proc. 3051, 080003 (2024)
11. M. Awadalla, A. Chaouk, M. Jneid, , J. Alahmadi, Processing the Controllability of Control Systems with Distinct Fractional Derivatives via Kalman Filter and Gramian Matrix. Fractal Fract. 2024, 8, 52.
12. Yu. Chu, M. Jneid, A. Chaouk, M. Inc, H. Rezazadeh, and A. Houwe I. Hassan, Local Time Fractional Reduced Differential Transform Method for Solving Local Time Fractional Telegraph Equations, Fractals, Vol. 32, No. 04, 2340128 (2024)
13. Maher Jneid, New conformable fractional HPT for solving systems of linear and nonlinear conformable fractional PDEs, Italian Journal of Pure and Applied Mathematics (November 2022)
14. Kinda Abuasbeh, Muath Awadalla and Maher Jneid, Nonlinear Hadamard fractional boundary value problems with different orders, Rocky Mountain Journal of Mathematics (February 2021).
15. Maher Jneid and Abir Chaouk, The conformable reduced differential transform method for solving Newell-Whitehead-Segel Equation with non-integer order, Journal of Analysis and Applications (March2020).
16. Maher Jneid and Muath Awadalla, On the controllability of conformable fractional deterministic control systems in finite dimensional spaces, International Journal of Mathematics and Mathematical Sciences, Volume 2020 Article ID 9026973, 7 pages, https://doi.org/10.1155/2020/9026973.

17. Maher Jneid and Abir Chaouk, Recent Advancement on Analytical Solution for Linear and Nonlinear Systems of Partial Differential Equations Involving Time Conformable Fractional Derivatives, Theory and Applications of Mathematical Science Vol. 3, Book Publisher International, March 2, 2020.
18. Maher Jneid. Exact controllability of semilinear control systems involving conformable fractional derivatives, AIP Conference Proceedings 2159, 030017 (2019).
19. Abir Chaouk and Maher Jneid, Analytic Solution for Systems of Two-Dimensional Time Conformable Fractional PDEs by Using CFRDTM, International Journal of Mathematics and Mathematical Sciences, vol. 2019, Article ID 7869516, 7 pages, 2019. https://doi.org/10.1155/2019/7869516
20. Maher Jneid, A.El Chakik, Analytical solution for some systems of nonlinear conformable fractional differential equations, Far East Journal of Mathematical Sciences (FJMS),109 (2),2018, pp243-259
21. Maher Jneid, The fractional annihilator technique for solving nonhomogeneous fractional linear differential equations, International Journal of Mathematical Analysis, Vol. 12, 2018, no. 2, 61-70. https://doi.org/10.12988/ijma.2018.712157
22. Maher Jneid, Approximate controllability of semilinear integro-differential fractional control systems with nonlocal conditions, Applied Mathematical Sciences, Vol. 11, 2017, no. 29, 1441-1453. https://doi.org/10.12988/ams.2017.73108.
23. B. E. Bashirov and Maher Jneid, Partial Complete Controllability of Deterministic Semilinear Systems, TWMS Journal of Applied and Engineering Mathematics 2014.
24. B. E. Bashirov and Maher Jneid, On Partial Complete Controllability of Semilinear Systems, Hindawi Publishing Corporation Abstract and Applied Analysis, volume 2013, Article ID 521052, 8 pages.

Conferences

1. 1st International Online Conference on Fractal and Fractional: Theoretical Foundations and Interdisciplinary Applications (IOCFF 2026), 13-15 April 2026.
2. On the Complete Controllability of Fractional-Order Integrodifferential System Involving Generalized Conformable Derivatives, Rola Masri and Maher Jneid(Oral Presentation), 3rd International Conference: Constructive Mathematical Analysis-Selçuk Üniversitesi, Konya, July 02-05,2025.
3. Partial controllability of fractional semi-linear control systems, Maher Jneid, .(Oral Presentation) (LSMS Eleventh Annual Conference-NDU)(June 7 -8, 2024).
4. Approximate Analytical Solution of Local Time Fractional Telegraph Equations via LTFRDTM, 8th International Conference on Applied Analysis and Mathematical Modeling ICAAMM19, Abir Chaouk and Maher Jneid. March 10-13, 2019, Istanbul-Turkey.
5. Solving the Fractional Newell-Whitehead-Segel Equation Using the Conformable Reduced Differential Transform Method, Abeer Chawk, Maher Jneid.(Oral Presentation) (SIRCAUS – BAU)(March 27-28, 2018).
6. Explicit Methods For Solving a Constant Coefficient Linear System of Conformable Fraction Differential Equations, Moussa Hawwary, Maher Jneid.(Oral Presentation) (LSMS-LAU)(May 11 -12, 2018).
7. Fractional Complex Transform For Solving Conformable Fractional Diffusion Equations with Boundary Conditions. Aaminah Hassan, Maher Jneid.(Poster) (SIRCAUS – BAU)(March 27-28, 2018).
8. Solution of Systems of Fractional Ordinary Differential Equations via Conformable Fractional Differential Transform Method. Nour Abu Jmeih, Aya chmaysem, Maher Jneid.(Poster)(SIRCAUS – BAU)(March 27-28, 2018). 1st Student Innovation and Research

Conference for Arab Universities and Schools (SIRCAUS) at BAU , Debbieh Campus, March, 27, 2018.

9. The Eight Annual Meeting (LSMS-2018) at the Lebanese American University, May 11 to 12, 2018.
10. The Seventh Annual Meeting of the "Lebanese Society for the Mathematical Sciences" LSMS-2017 held at the University of Balamand, North Lebanon, April 20-21, 2017.
11. The sixth Annual meeting of the "Lebanese Society for the Mathematical Sciences" LSMS-2016 "Ecole Doctorale des Sciences et de Technologies" at the Lebanese University, Beirut, May 20 to 21, 2016.
12. Partial Differential Equations and Applied Mathematics at Lebanese University-Hadath, Lebanon, March 29-30, 2016
13. Day of Partial Differential Equations at Beirut Arab University, Lebanon, April, 22, 2015.
14. Matematik kulubu tarafindan duzenlenen “Matematik Gunferi” ne katilarak bu belgeyi almaya hak kazanmistir, March, 4 to 14, 2013.
15. The UNESCO-CIMPA research school mathematics, images and applications, April, 7 to 17, 2010.

Workshop

- ✓ April 21, 2026, Representation Theory and Related Algebraic & Geometric Structures organized by Department of Mathematics and Computer Science, Faculty of Science BAU Debbieh- Campus.
- ✓ March 3, 2026, basics of Cybersecurity and AI Strategies organized by Albalasmeh Business Company LTD-UK(online)
- ✓ August 26, 2025 قانون التعليم العالي organized by Human Resources Department at BAU Tripoli-Campus.
- ✓ March 2024 Open Minds, Open Resources: Creative Commons and Open Educational Resources(BAU Tripoli-Campus)
- ✓ April 2018 Applied Statistics Day (Department of Mathematics and Computer Science Faculty of Science, BAU Beirut-Campus).
- ✓ February 2018 Biomedical Research Between Sciences and Engineering / Beirut Arab University- Tripoli Campus in Cooperation with Doctoral School for Science and Technology (DSST), Faculty of Engineering, Lebanese University & IEEE EMBS Lebanon Chapter.
- ✓ January 2017 "Teaching & Learning: Curriculum Design, assessment & Feedback" organized by The Faculty of Human Sciences, BAU Beirut-Campus.
- ✓ October 2015 “The Enhancement of Staff Members Teaching Skills” organized by (The Faculty of Arts, BAU Beirut-Campus).