

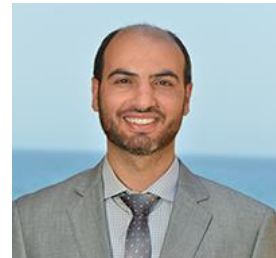
## MAHER JNEID

Address: Beirut Arab University, Tripoli Campus

E-mail: [m.jneid@bau.edu.lb](mailto:m.jneid@bau.edu.lb) , [jneidmaher@gmail.com](mailto:jneidmaher@gmail.com)

Telephone (s) : (+961)6218400 Mobile: (+961) 70479799

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 Bachelors in Science**

High School Akkar El Atika Akkar, Lebanon.

### Academic Experiences

---

September 2020 - Present 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,

## **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.

## **Publications**

---

1. 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,
2. 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.
3. M. Jneid, Results on partial approximate controllability of fractional control systems in Hilbert spaces with conformable derivatives, *AIP Advances* 14, Article ID 025128, 2024.
4. M. Jneid, On partial exact controllability of fractional control systems in conformable sense, *Journal of Mathematics*, Volume 2024 | Article ID 9531298.
5. M. Jneid, Solving Newell-Whitehead-Segel, Stefan and nonlinear gas dynamics equations via modified Laplace variational iteration technique, *AIP Conf. Proc.* 3051, 080003 (2024)
6. M. Awadalla, A. Chaouk, M. Jneid, K. Abuasbeh, J. Alahmadi, Processing the Controllability of Control Systems with Distinct Fractional Derivatives via Kalman Filter and Gramian Matrix. *Fractal*

Fract. 2024, 8, 52.

7. 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)
8. 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)
9. Muath Awadalla, Maher Jneid and Kinda abuasbeh, Nonlinear Hadamard fractional boundary value problems with different orders *Rocky Mountain Journal of Mathematics* (February 2021).
10. 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).
11. 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>.
12. 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.
13. Maher Jneid. Exact controllability of semilinear control systems involving conformable fractional derivatives, *AIP Conference Proceedings* 2159, 030017 (2019).
14. 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>
15. 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
16. 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>
17. 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>.
18. B. E. Bashirov and Maher Jneid, Partial Complete Controllability of Deterministic Semilinear Systems, *TWMS Journal of Applied and Engineering Mathematics* 2014.
19. 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. 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.

2. 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).
- 3.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).
4. Fractional Complex Transform For Solving Conformable Fractional Diffusion Equations with Boundary Conditions. Aaminah Hassan, Maher Jneid.(Poster) (SIRCAUS – BAU)( March 27-28, 2018).  
Solution of Systems of Fractional Ordinary Differential Equations via Conformable Fractional Differential Transform Method.
- 5.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.
- 6.The Eight Annual Meeting (LSMS-2018) at the Lebanese American University, May 11 to 12, 2018.  
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.
- 7.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.  
Partial Differential Equations and Applied Mathematics at Lebanese University-Hadath, Lebanon, March 29-30, 2016
- 8.The sixth Annual meeting of the "Lebanese Society for the Mathematical Sciences" LSMS-2016  
Day of Partial Differential Equations at Beirut Arab University, Lebanon, April, 22, 2015.
9. Matematik kulubu tarafından duzenlenen “Matematik Gunferi” ne katılarak bu belgeyi almaya hak kazanmistir, March, 4 to 14, 2013.
- 10.The UNESCO-CIMPA research school mathematics, images and applications, April, 7 to 17, 2010.

## **Workshop**

---

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).