

# Dr. Mohammad A. A. Marabeh

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Home Address: Fahmeh village, Jenin area, Palestine.

Work Address: Department of Applied Mathematics,  
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## Personal Information

First Name: Mohammad  
Surname: Marabeh  
Date of Birth: 26/04/1987  
Place of Birth: Saudi Arabia  
Nationality: Palestinian  
Gender: Male

## Academic Background

- (22/10/2012-29/05/2017) PhD in Mathematics from Middle East Technical University (METU), Ankara, Turkey.  
Field of specialization is *Functional Analysis*.  
GPA is **4.00 out of 4.00**.  
Thesis Title: *Unbounded  $p$ -Convergence in Lattice-Normed Vector Lattices.*
- (28/09/2009 –26/10/2011) Master degree in Applied Mathematics with GPA **4.00 out of 4.00** (Excellent outstanding) from Arab American University of Jenin (AAUJ), Jenin, Palestine.  
Thesis Title: *Finite Fuzzy Markov Chains.*
- (03/09/2005– 21/01/2009) B.Sc. in Mathematics with accumulative average **94.0%** (Excellent) from An-Najah National University, Nablus, Palestine.  
I ranked the **second** among all mathematics graduates in the first semester of the academic year 2008/2009.
- (2004-2005) Palestinian High School Certificate (Tawjihi) in 2005 with percentage average **98.1%**.  
I ranked the **tenth** among the students in Jenin area.

## Professional Experience

**(03/09/2017-Present)** *Assistant Professor of Mathematics* in the Department of Applied Mathematics, Palestine Technical University-Kadoorie (PTUK), Tulkarem, Palestine.

Taught Courses:

1. Mathematics for Management.
2. Calculus 1.
3. Calculus 2.
4. Engineering Mathematics 1.
5. Engineering Mathematics 2.
6. Fundamentals of Mathematics.
7. Linear Algebra 1.
8. Linear Algebra 2.
9. Vector Analysis.
10. Special Functions.
11. Complex Analysis.
12. Real Analysis 1.
13. Real Analysis 2.
14. Modern Euclidean Geometry.
15. Operations Research
16. Functional Analysis
17. Special Topics in Mathematics.
18. Seminar.

**(22/08/2011-31/05/2012)** *Part-time Instructor* in the Department of Mathematics, Bethlehem University, Bethlehem, Palestine.

Taught Courses:

1. MATH 338 Complex Variables.
2. MATH 336 Introduction to Modern Algebra.
3. MATH 335 Advanced Mathematics II.
4. MATH 334 Advanced Mathematics I.
5. MATH 235 Introduction to Linear Algebra.
6. MATH 111 Fundamentals of Mathematics (for non-science students).
7. BUSM 101 Business Mathematics I.

## Committees at Palestine Technical University-Kadoorie

1. Member of mathematical modeling master's program committee for the academic year 2019/2020.
2. Member of mathematics curriculum committee.
3. Member of mathematics department committee.
4. Member of organizing committee of "Mathematics Fair in Physics and Computer Sciences" which was held on December 3, 2018.
5. Member of selection committee for part-timers in math department for Summer 2017/2018.
6. Member of selection committee for part-timers in math department for Fall 2018/2019.
7. Member of selection committee for part-timers in math department for Summer 2018/2019.
8. Member of selection committee for part-timers in math department for Fall 2019/2020.

**Research Interests** Convergence in vector lattices, locally solid vector lattices and in lattice-normed vector lattices. Continuous-like operators in vector lattices and Compact-like operators in lattice-normed spaces. Unbounded Topologies. Fuzzy Markov Chains.

## Publications

1. E. Y. Emelyanov and **M. A. A. Marabeh**. On the Brezis--Lieb lemma and its extensions, *Operator Theory: Advances and Applications*, to appear.
2. Y. A. Dabboorasad, E. Yu. Emelyanov, and **M. A. A. Marabeh**. Order convergence in infinite-dimensional vector lattices is not topological, *Uzbek Mathematical Journal*, to appear.
3. E. Yu. Emelyanov and **M. A. A. Marabeh**. Internal Characterization of Brezis-Lieb Spaces, *Positivity*, to appear.
4. A. Aydın, E. Yu. Emelyanov, N. Erkurşun-Özcan and **M. A. A. Marabeh**. Unbounded  $p$ -Convergence in Lattice-Normed Vector Lattices, *Siberian Advances in Mathematics*, Volume 29, Issue 3, (2019), pp. 164-182.
5. **M. MARABEH**, Brezis-Lieb lemma in convergence vector lattices, *Turkish Journal of Mathematics*, Volume 42, Number 3, (2018), pp. 1436-1442.
6. Y. A. Dabboorasad, E. Yu. Emelyanov, and **M. A. A. Marabeh**.  $u\tau$ -Convergence in Locally Solid Vector Lattices, *Positivity*, Volume 22, Issue 4, (2018), pp. 1065-1080.
7. Y. A. Dabboorasad, E. Yu. Emelyanov, and **M. A. A. Marabeh**.  $um$ -Topology in Multi-Normed Vector Lattices, *Positivity*, Volume 22, Issue 2, (2018), pp. 653-667.
8. A. Aydın, E. Yu. Emelyanov, N. Erkurşun-Özcan and **M. A. A. Marabeh**. Compact-Like Operators in Lattice-Normed Spaces, *Indagationes Mathematicae*, Volume 29, Issue 2, (2018), pp. 633-656.
9. M. Kandic, **M.A.A. Marabeh** and V.G. Troitsky. Unbounded Norm Topology in Banach Lattices, *Journal of Mathematical Analysis and Applications*, Volume 451, Issue 1(2017), pp. 259-279.
10. E. Yu. Emelyanov and **M. A. A. Marabeh**. Two Measure-Free Versions of the Brezis-Lieb Lemma, *Vladikavkaz Mathematical Journal (VMJ)*, Vol. 18, Issue 1(2016), pp. 21-25.
11. Saed F. Mallak, **Mohammad Mara'Beh** and Abdelhalim Zaiqan. Further Particular Classes of Ergodic Finite Fuzzy Markov Chains. *Advances in Fuzzy Mathematics (AFM)*, Volume 6, Number 2(2011), pp. 269-281.
12. Saed F. Mallak, **Mohammad Mara'Beh** and Abdelhalim Zaiqan. A Particular Class of Ergodic Finite Fuzzy Markov Chains. *Advances in Fuzzy Mathematics (AFM)*, Volume 6, Number 2(2011), pp. 253-268.

## Master Thesis Committee Member

1. External Examiner: “*Computer Simulation of Slowly Varying Functions Adapted to Physics Problem*” by Aalaa Emad Abu Alrob from Arab American University (AAUP), 16.12.2019.

**Research Visits** (11/03/2016-28/05/2016) I was invited to the Department of Mathematical and Statistical Sciences at University of Alberta, Edmonton, Canada, to conduct a collaborative research project with Prof. Vladimir G. Troitsky.

## Honors and Awards

1. **Certificate of Merit** by Palestine Technical University-Kadoorie for the contribution in coordinating the international project for 2018/2019 entitled: *Fostering Entrepreneurship in Science, Technology, Engineering and Math (FESTEM)*.
2. **METU Scientific Research Project (BAP)**, 2016.
3. **METU Graduate Courses Performance Award** for being the most successful student in the PhD program of the Department of Mathematics in the 2013-2014 Academic Year.
4. **Full PhD Scholarship** from "Türkiye Bursları" to study mathematics at Middle East Technical University (METU), October 2012 – June 2017.
5. **Scholarship from An-Najah National University** covers 50% of tuition fees during my undergraduate superiority, 2005 – 2009.

## Conferences and Workshops

1. I participated in "International Conference on Applied Mathematics and Analysis", July 11-13, 2016, Atılım University, Ankara, Turkey.
2. I participated in "Conference on Geometric Functional Analysis in Honour of Nicole Tomczak-Jaegermann", May 16-20, 2016, University of Alberta, Edmonton, Canada.
3. I participated in "Workshop on Applications of Topology in Mathematics and Computer Science", September 7-8, 2015, Hacettepe University, Ankara, Turkey.

## Talks Given

1.  *$wt$ -Convergence in Locally Solid Vector Lattices*, Sixth Palestinian Conference on Modern Trends in Mathematics and Physics PCMTMP-VI, August 5-8, 2018, Palestine Technical University-Kadoorie, Tulkarem, Palestine.
2. *Unbounded Norm Topology in Banach Lattices*, Graduate Seminar, March 07, 2017, Department of Mathematics, Middle East Technical University (METU), Ankara, Turkey.
3. *Un-compact operators*, POSITIVITY Conference, December 3-4, 2016, Department of Mathematics, Abant İzzet Baysal University, Bolu, Turkey.
4. *Unbounded Norm Topology in Banach Lattices*, Seminar, November 17, 2016, Department of Mathematics, Bilkent University, Ankara, Turkey.

5. *Unbounded Order Continuous Operators*, Alberta Mathematics Dialouge, April 28-29, 2016, Department of Mathematics and Computing, Mount Royal University, Calgary, Canada.
6. *Unbounded Order Continuous Operators*, General Seminar, 06/01/2016, Department of Mathematics, Hacettepe University, Ankara, Turkey.

### Professional Activities

1. November 20-22, 2019, I participated in the “**FESTEM workshop**” arranged by the Department of Computer Science, The University of Copenhagen, Copenhagen, Denmark.
2. August 18-28, 2019, I participated in “**AGYA Summer School in Numerical Simulation**” conducted at Palestine Polytechnic University and Bethlehem University in cooperation with Palestine Academy for Science and Technology.
3. April 2-5, 2019, I attended the training workshop on “**Entrepreneurship and Innovation in Higher Education**” which was delivered at Middlesex University, London, United Kingdom.
4. (08/01/2019 and 10/01/2019) I participated in a training course in “**Preparation and Implementation of Strategic Plans**” which was held in Palestinian National School of Administration (PNSA), Ramallah, Palestine.
5. June 1-2, 2012, I attended the conference “**Sharing Models of Innovative Teaching in Higher Education**” which was held at Movenpick Hotel in Ramallah, Palestine.
6. November 23-24, 2011, I attended workshops on “**Math and Technology**” and “**e-courses**” at Arab American University-Jenin (AAUJ), Jenin, Palestine. The trainers were from the Institute of Education, University of London.
7. September 15<sup>th</sup> 2011, I attended a symposium on “**Civic Learning and Community Engagement for Improving Teaching and Learning in Higher Education**”, Bethlehem University.
8. I attended workshops on “**Moodle**”, “**Ethical Issues**” and “**HINARY**”, Bethlehem University.

### Computer Skills

LATEX and Office Package: Word, Excel, Power point.

### Languages

- **Arabic** is my tongue language.
- **English**: reading, writing & speaking.
- **Turkish**: basics.

### References

Department of Applied Mathematics, College of Sciences and Arts, Palestine Technical University-Kadoorie, Tulkarem, Palestine:

**Dr. Saed Mallak** (vice president for academic affairs) [s.mallak@ptuk.edu.ps](mailto:s.mallak@ptuk.edu.ps)  
**Dr. Ata Asad** (Chairperson) [a.asad@ptuk.edu.ps](mailto:a.asad@ptuk.edu.ps)  
**Dr. Mohammad Jarrar** [m.jarrar@ptuk.edu.ps](mailto:m.jarrar@ptuk.edu.ps)

Department of Mathematics, Faculty of Arts and Sciences, Middle East Technical University (METU), Ankara, Turkey:

**Prof. Eduard Emelyanov** (PhD supervisor) [eduard@metu.edu.tr](mailto:eduard@metu.edu.tr)  
**Prof. Mustafa Hurşit Önsiper** [hursit@metu.edu.tr](mailto:hursit@metu.edu.tr)  
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Department of Mathematical and Statistical Sciences, University of Alberta, Edmonton, Canada:

**Prof. Vladimir G. Troitsky** [troitsky@ualberta.ca](mailto:troitsky@ualberta.ca)

Mathematics Department, Bethlehem University, Bethlehem, Palestine:

**Dr. Mohammad Abu-Ayyash** [mayyash@bethlehem.edu](mailto:mayyash@bethlehem.edu)

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**Dr. Abdelhalim Ziqan** (Master advisor) [abdelhalim.ziqan@aauj.edu](mailto:abdelhalim.ziqan@aauj.edu)