



# Meisam Soleimani Malekan

Date of birth 21 September 83.  
Marital status I am married and have four children.

## Positions

- 2023–2024 **Assistant professor, Department of Mathematics, Faculty of Science, Shahid Rajaei Teacher Training University, Tehran, Iran.**
- 2023–Now **Resident Researcher, School of Mathematics, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran.**
- 2020–2023 **Non-Resident Researcher, School of Mathematics, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran.**
- 2021–2022 **Postdoctoral Researcher, Faculty of Mathematical and Statistical Sciences, Department of Pure Mathematics, University of Isfahan, Isfahan, Iran.**
- 2018–2019 **Postdoctoral Researcher, Faculty of Mathematical and Statistical Sciences, Department of Pure Mathematics, University of Isfahan, Isfahan, Iran.**

## Professional Experience

- August 2024–present **Editor-in-Chief, ROSHD MAGAZINE (Math Education), Office of Educational Publications and Technology, Educational Research and Planning Organization, Ministry of Education, Tehran, Iran.**
- 2024–present **Faculty Advisor, MATHEMATICAL SCIENTIFIC ASSOCIATION, Department of Mathematics, Shahid Rajaei Teacher Training University, Tehran, Iran.**
- December 2024– **Member of , THE SUPERVISORY COMMITTEE FOR UNIVERSITY PUBLICATIONS, Vice-Presidency of Cultural and Social Affairs.**
- December 2025 **Shahid Rajaei Teacher Training University, Tehran, Iran.**

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## Degrees

- 2012–2017 **PhD student in Harmonic Analysis, Faculty of Mathematical and Statistical Sciences, Department of Pure Mathematics, University of Isfahan, Isfahan, Iran, GPA – 18.69/20.**
- 2007–2010 **M.Sc. student in Pure Mathematics, Department of Mathematical Sciences, Sharif University of Technology, Tehran, Iran, GPA – 18.33/20 via 26 units.**
- 2002–2007 **B.Sc. student in Pure Mathematics, Department of Mathematical Sciences, Sharif University of Technology, Tehran, Iran, GPA – 15.1/20 via 142 units.**

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## Research Experience

- Master Thesis** *A Study on Nuclear  $C^*$ -Algebra, Under Supervision of Professor Hamid Reza Farhadi, SHARIF UNIVERSITY OF TECHNOLOGY, Tehran, Iran.*
- PhD Thesis** *Algebraic Structures Related to Configuration in Abstract Harmonic Analysis, Under Supervision of Professor Ali Rejali & Professor Masoud Amini, UNIVERSITY OF ISFAHAN, Isfahan, Iran.*
- Zero divisors of the group algebra of a torsion-free group, UNIVERSITY OF ISFAHAN, Isfahan, Iran.*  
December 2018–December 2019
- Military Service Research Project** *Optimization of the Parameters of the Tactical Guidance for a Missile Based on the Metaheuristic Algorithms, Department of Mathematics, Center of Basic Science, KHATAM OL ANBIA-PBU-UNIVERSITY, Tehran, Iran.*  
August 2019–May 2021
- Investigating a Conjecture in Profinite Groups, School of Mathematics, INSTITUTE FOR RESEARCH IN FUNDAMENTAL SCIENCES (IPM), Tehran, Iran.*  
March 2020–March 2021
- Gaps in Equational Probabilities, School of Mathematics, INSTITUTE FOR RESEARCH IN FUNDAMENTAL SCIENCES (IPM), Tehran, Iran.*  
March 2021–March 2022
- Compactly Generated Simple Groups, School of Mathematics, INSTITUTE FOR RESEARCH IN FUNDAMENTAL SCIENCES (IPM), Tehran, Iran.*  
March 2022–March 2023
- Studying BSE Properties of Tensor Product of Banach Algebras, School of Mathematics, INSTITUTE FOR RESEARCH IN FUNDAMENTAL SCIENCES (IPM), Tehran, Iran.*  
March 2023–March 2024
- Stock Index Forecasting Using the Discrete Wavelet Transform, School of Mathematics, INSTITUTE FOR RESEARCH IN FUNDAMENTAL SCIENCES (IPM), Tehran, Iran.*  
March 2025–Now

## Conference lectures

- February, 2024 **Plenary lecture at the 16th Iranian International Group Theory Conference**, *About compact groups largely satisfying a word equation*, Shahid Rajaei Teacher Training University, Tehran, Iran.
- November, 2024 **Speaker at Scientific Pathway Seminar Series**, *Planetary Motion and Vector Functions: A Journey into Keplers World*, Shahid Rajaei Teacher Training University, Tehran, Iran.

## Research Interests

KAPLANSKY ZERO DIVISOR CONJECTURE, UNIT CONJECTURE AND ATIYAH CONJECTURE

HARMONIC ANALYSIS

CONFIGURATION OF GROUPS

ARENS REGULARITY OF BANACH ALGEBRAS

OPERATOR ALGEBRAS

LOCALLY COMPACT QUANTUM GROUPS

PROFINITE GROUPS

TOTALLY DISCONNECTED LOCALLY COMPACT GROUPS

COMPACT GROUPS WITH POSITIVE MEASURE SUBSETS DEFINED BY GROUP WORDS

## Publication

### Books(in persian)

- 1 M. SOLEIMANI MALEKAN, **Theorems and Problems in Functional Analysis**, in preparation

### Translation (English to Persian)

- 1 W. Z. KACZOR, M. T. NOWAK, **Problems in Mathematical Analysis I; Real numbers, Sequences and Series**, AMS, 1996, Published by IUP(Iran University Press), ISBN:978-964-01-1514-5. *Click on the image to explore and purchase this book online.*



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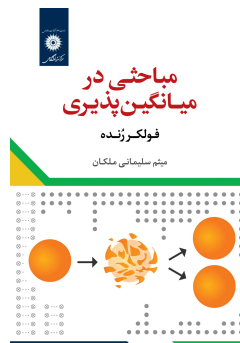
- 2 W. Z. KACZOR, M. T. NOWAK, **Problems in Mathematical Analysis II; Continuity and Differentiation**, AMS, 1998, Published by IUP(Iran University Press), ISBN:978-964-01-1559-6. *Click on the image to explore and purchase this book online.*



- 3 W. Z. KACZOR, M. T. NOWAK, **Problems in Mathematical Analysis III; Integration**, AMS, 2000, Published by IUP(Iran University Press), ISBN:978-964-01-1611-1. *Click on the image to explore and purchase this book online.*



- 4 VOLKER RUNDE, **Lectures on Amenability**, Springer, 2002, Published by IUP(Iran University Press), ISBN:978-964-01-1611-1. *Click on the image to explore and purchase this book online.*



## Papers

- 1 A. REJALI AND M. SOLEIMANI MALEKAN, Configuration Equivalence is not Equivalent to Isomorphism, *Internat. J. Algebra Comput.* **27(8)** (2017), 1073–1085.
- 2 A. REJALI AND M. SOLEIMANI MALEKAN, Solubility of groups can be characterized by configuration, *New York J. Math.* **23** (2017), 1427–1445.
- 3 M. SOLEIMANI MALEKAN AND A. REJALI, Two-sided configuration equivalence and isomorphism, *J. Algebra Appl.*, **19(10)** (2020), 2050189 (13 pages).
- 4 M. SOLEIMANI MALEKAN, A. ABDOLLAHI AND M. EBRAHIMI, Compact groups with many elements of bounded order, *J. Group Theory*, **23(6)** (2020), 991–998, <https://doi.org/10.1515/jgth-2020-0045>
- 5 R. BAYAT TAJVAR, M. SOLEIMANI MALEKAN, A. SALEHI SHAYGAN, Optimizing the Parameters of the Missile Tactical Guidance Law based on the Heuristic Gravitational Search Algorithm, *Journal of Aeronautical Engineering*, **21(2)**, Winter and Spring 2021, 29–35.
- 6 A. ABDOLLAHI AND M. SOLEIMANI MALEKAN, Commuting Probability of Compact Groups, *Bull. Aust. Math. Soc.*, (2021) 1-5. <https://doi.org/10.1017/S0004972721000472>.
- 7 A. ABDOLLAHI AND M. SOLEIMANI MALEKAN, Compact groups with a set of positive Haar measure satisfying a nilpotent law, *Math. Proc. Camb. Phil. Soc.*(2021)1-4. <https://doi.org/10.1017/S0305004121000542>.
- 8 M. MEISAMI, A. REJALI, M. SOLEIMANI MALEKAN AND A. YOUSOFZADEH, Locally Finite Groups and Configurations, *J. Group Theory.* (2021) pp. 00010151520200178. <https://doi.org/10.1515/jgth-2020-0178>
- 9 A. ABDOLLAHI AND M. SOLEIMANI MALEKAN, Profinite groups with many elements of bounded order, *Adv. Group Theory Appl.* **13**(2022) pp. 71–81.
- 10 M. SOLEIMANI MALEKAN, Mamikons Sweeping Tangent Theorem, *Mathematical Culture and Thought* **42(1)**(2023) pp. 129–163. <https://doi.org/10.30504/mct.2022.1331.1928>
- 11 M. SOLEIMANI MALEKAN AND A. ABDOLLAHI, A Necessary Condition for Zero Divisors in Complex Group Algebra of Torsion-free Groups, *IJMSI* **19(2)** (2024), 189–194. <https://doi.org/10.61186/ijmsi.19.2.189>
- 12 A. ABDOLLAHI AND M. SOLEIMANI MALEKAN, Nilpotent probability of compact groups, *J. Algebra* **631**(2023) pp. 136–147.
- 13 A. REJALI, M. MEISAMI, M. SOLEIMANI MALEKAN AND A. YOUSOFZADEH, Amenability of group actions characterized by configuration equations, *Bull. Belg. Math. Soc. Simon Stevin.* **31(4)** (2024) pp. 434–445. <https://doi.org/10.36045/j.bbms.231115a>.
- 14 M. SOLEIMANI MALEKAN, About nilpotent profinite groups largely satisfying a word equation, *Adv. Group Theory Appl.* To be appeared.

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- 15 M. SOLEIMANI MALEKAN, Configuration sets; a right place for ping-pong arguments, *J. Disc. Math. Appl.*, **9(3)** (2024) pp. 193–204. <https://doi.org/10.22061/jdma.2024.11140.1079>
- 16 M. SOLEIMANI MALEKAN, On characterizations of the image of the Gelfand transform of some Banach algebras of vector-valued functions, *J. Anal.* (2025) <https://doi.org/10.1007/s41478-025-00887-9>
- 17 M. SOLEIMANI MALEKAN AND A. ABDOLLAHI, A generalization of the ChermakDelgado theorem to compact groups, *J. Algebra Appl.*, (2025), <https://doi.org/10.1142/S0219498826501604>.
- 18 M. SOLEIMANI MALEKAN, BED properties of some Banach algebras of vector-valued functions, *Acta Sci. Math. (Szeged)*, To be appeared., 2025, <https://doi.org/10.1007/s44146-025-00205-6>.

#### Submitted Papers

### Membership

- 2017–2018 **Member of Iranian Mathematical Society**, Tehran, Iran.  
 2024–Now **Member of Iranian Mathematical Society**, Tehran, Iran.

### Honors and Awards

- 2022 **Shahid Shahriari Award (Admission to scientific institutes)**, BY IRANIAN NATIONAL ELITE FOUNDATION, Tehran, Iran.
- 2021–2022 **Postdoctoral fellowship**, BY IRAN NATIONAL SCIENCE FOUNDATION (INSF), Tehran, Iran.
- 2018–2019 **(Chamran) Postdoctoral fellowship**, BY IRANIAN NATIONAL ELITE FOUNDATION, Tehran, Iran.
- 2013–2016 **Brilliant talent scholarship**, BY MINISTRY OF SCIENCE, RESEARCH AND TECHNOLOGY, Tehran, Iran.
- 2013 **First rank in PhD entrance exam in all accepted university.**
- 2013–2014 **Distinguished Teacher**, MINISTRY OF EDUCATION, Isfahan, Iran.
- 2006 **Silver medal in 12<sup>th</sup> International Scientific Olympiad (Mathematics)**, Tehran, Iran.
- 2006 **Bronze Medal in 12<sup>th</sup> National Mathematics Olympiad**, Tehran, Iran.
- 2006 **7<sup>th</sup> rank among almost 7000 participants of national entrance exam for entering graduate degree.**
- 2006–2008 **2-year scholarship**, BY EXCEPTIONAL TALENTS ORGANIZATION, Sharif University of Technology, Tehran, Iran.
- 2006–2008 **2-year scholarship**, BY IRANIAN NATIONAL ELITE FOUNDATION, Tehran, Iran.

### Teaching Experience

**Graduate** ALGEBRAIC TOPOLOGY

**Undergraduate** MATHEMATICAL ANALYSIS I, II

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PRECALCULUS  
SINGLE-VARIABLE CALCULUS  
MULTI-VARIABLE CALCULUS  
ORDINARY DIFFERENTIAL EQUATIONS  
LINEAR ALGEBRA AND ITS APPLICATIONS

## Languages

Persian	<b>Mother-tongue</b>	
English	<b>Intermediate</b>	<i>Con conversationally fluent</i>
Arabic	<b>Intermediate</b>	<i>Con conversationally fluent</i>

## References

A. Abdollahi	<b>Department of Pure Mathematics, University of Isfahan</b>	<i>a.abdollahi@math.ui.ac.ir</i>
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