



Meisam Soleimani Malekan

Date of birth 21 September 83.

Marital status I am married and have four children.

Positions

- 2023–Now **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.**

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.**

PhD Thesis

- Title *Algebraic Structures Related to Configuration in Abstract Harmonic Analysis*
- Supervisors Professor Ali Rejali & Professor Masoud Amini
- Mark Excellent (19.97/20)

No. 130, Moallem dead-end, Meisam alley, Imam Reza alley, Dastgerd street, Zobahan highway
Isfahan, Iran

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Masters Thesis

Title *A Study on Nuclear C^* -Algebra*
Supervisor Professor Hamid Reza Farhadi

Military service research project

Title *Optimization of the Parameters of the Tactical Guidance for a Missile Based on the Metaheuristic Algorithms*
Done in **Department of Mathematics, Center of Basic Science, KHATAM OL ANBIA-PBU-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, **Lectures on Amenability**, to be published by **IUP**(Iran University Press).
- 2 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.
- 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.
- 3 W. Z. KACZOR, M. T. NOWAK, **Problems in Mathematical Analysis III; Integration**, AMS, 2000, To be published by **IUP**(Iran University Press)

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. 000010151520200178. <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 AND A. ABDOLLAHI, A Necessary Condition for Zero Divisors in Complex Group Algebra of Torsion-free Groups, *To appear in Iranian Journal of Mathematical Sciences and Informatics.*
- 11 A. ABDOLLAHI AND M. SOLEIMANI MALEKAN, Nilpotent probability of compact groups, *J. Algebra* **631**(2023) pp. 136–147.

Submitted Papers

- 1 M. SOLEIMANI MALEKAN, Configuration sets; the right place for ping-pong arguments.
- 2 M. SOLEIMANI MALEKAN, Nilpotent profinite groups largely satisfy a word.

Membership

2017-2018 **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.

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Isfahan, Iran

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- 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 **3-year fellowship**, 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 12th International Scientific Olympiad (Mathematics)**, Tehran, Iran.
- 2006 **Bronze Medal in 12th National Mathematics Olympiad**, Tehran, Iran.
- 2006 **7th 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 (Undergraduate)

MATHEMATICAL ANALYSIS

PRECALCULUS

SINGLE-VARIABLE CALCULUS

MULTI-VARIABLE CALCULUS

ORDINARY DIFFERENTIAL EQUATIONS

LINEAR ALGEBRA AND ITS APPLICATIONS

Languages

Persian **Mother-tongue**

English **Intermediate**

Arabic **Intermediate**

Conversationally fluent

Conversationally fluent

References

- A. Abdollahi **Department of Pure Mathematics, University of Isfahan** *a.abdollahi@math.ui.ac.ir*
- A. Rejali **Department of Pure Mathematics, University of Isfahan** *Rejali@sci.ui.ac.ir*
- H. R. Farhadi **Department of Mathematical Sciences, Sharif university of technology** *hfarhadi2002@yahoo.com*